

# Genomic Profiling of Hormone-Naïve Lymph Node Metastases in Patients with Prostate Cancer<sup>1\*</sup>

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## Abstract

The progression of organ-confined prostate cancer to metastatic cancer is inevitably fatal. Consequently, identification of structural changes in the genome and associated transcriptional responses that drive this progression is critical to understanding the disease process and the development of biomarkers and therapeutic targets. In this study, whole genome copy number changes in genomes of hormone-naïve lymph node metastases were profiled using array comparative genomic hybridization, and matched primaries were included for a subset. Matched primaries and lymph node metastases showed very similar copy number profiles that are distinct from primary tumors that fail to metastasize.

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makeup of lymph node metastases of prostate cancer [2,3]. This is partly due to the fact that lymph node metastases, particular those that are hormone-naïve, are hard to obtain. In the United States, a patient diagnosed with prostate cancer with clinical lymph node involvement rarely undergoes radical prostatectomy. We analyzed five hormone-naïve lymph node (HNLN) metastases and two matching sets of primary prostate cancers and their respective HNLN metastases. One matched set consisted of a primary prostate tumor and lymph node metastasis from a unilateral metastatic case, and the second consisted of a primary prostate tumor with bilateral lymph node metastases. Array comparative genomic hybridization (aCGH) was performed on all eight lymph node tumors, as well as on two primaries. We report our genomewide characterization of this set of tumors, highlighting frequent copy number aberrations (CNAs).

## Introduction

An estimated 30% of all prostate cancer patients suffer from recurrent disease after undergoing primary treatment (radical prostatectomy or radiation) [1]. Metastatic prostate cancer inevitably progresses to androgen independency, at which point it is essentially incurable. Due to early detection, the 5-year disease-specific survival rate is close to 100% in men with localized prostate cancer, but is only 34% in men with distant metastasis [1]. It appears that a high proportion of men initially presenting with apparently localized disease have undetectable metastases that eventually progress to life-threatening metastatic tumors. Therefore, developing diagnostic and therapeutic approaches for targeting metastatic disease holds considerable potential for improving the quality of life, treatment modalities, and survival rates of a significant proportion of patients with prostate cancer.

Prostate cancer often migrates through the lymphatic route, depositing tumor cells into pelvic lymph nodes. There have not been many publications to date on the genetic

## Materials and Methods

### Tumor Samples

Five lymph nodes were obtained through a collaboration with the University of Ulm (Ulm, Germany). Fifteen-micron sections for each fresh frozen sample were sent. Hematoxylin–eosin stainings were reviewed by one pathologist (M.A.R.). Microdissection was not necessary due to the high percentage of tumors in the sections. Tumor tissue was directly placed into proteinase K (PK) cell lysis buffer (Promega, Madison, WI) with

Abbreviations: *FABP5*, fatty acid-binding protein 5; *TPD52*, tumor protein D52; *NGFR*, nerve growth factor receptor; *MYC*, myelocytomatosis viral oncogene homolog; *PIAS3*, protein inhibitor of activated STAT protein 3; *ARL2*, ADP ribosylation factor-like 2; *SNX15*, sorting nexin 15; *MEN1*, multiple endocrine neoplasia 1; *RPS3*, ribosomal protein S3; *CBX8*, chromobox homolog 8; *CBX4*, chromobox homolog 4

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20  $\mu$ l of PK and then incubated at 55°C. An additional 20  $\mu$ l of PK was added twice daily for 2 to 3 days. DNA was extracted using Promega's Wizard DNA purification kit. DNA was cleaned by two phenol/chloroform/isoamyl alcohol (25:24:1) extractions and then purified using 2-ml Eppendorf Phase Lock Gel Light tubes (Eppendorf, Westbury, NY). Finally, DNA was ethanol-precipitated with ammonium acetate, resuspended in 25 to 50  $\mu$ l of 1  $\times$  Tris-EDTA (TE), and stored at 4°C. RNA was isolated by macrodissection for matched primary and HNLN cases (PR1263 and PR1264) using the RNeasy kit (Qiagen, Valencia, CA). *TaqMan* assay was carried out at the University of California at San Francisco (UCSF) Comprehensive Cancer Center's Genome Core.

### aCGH

Human version 2.0 BAC arrays were purchased from the UCSF Array Core. Each array consists of 2460 BAC clones on chromium slides spotted in triplicate [4]. The resolution is approximately 1.4 Mb. We followed our published hybridization protocol [5].

### aCGH Statistical Analysis

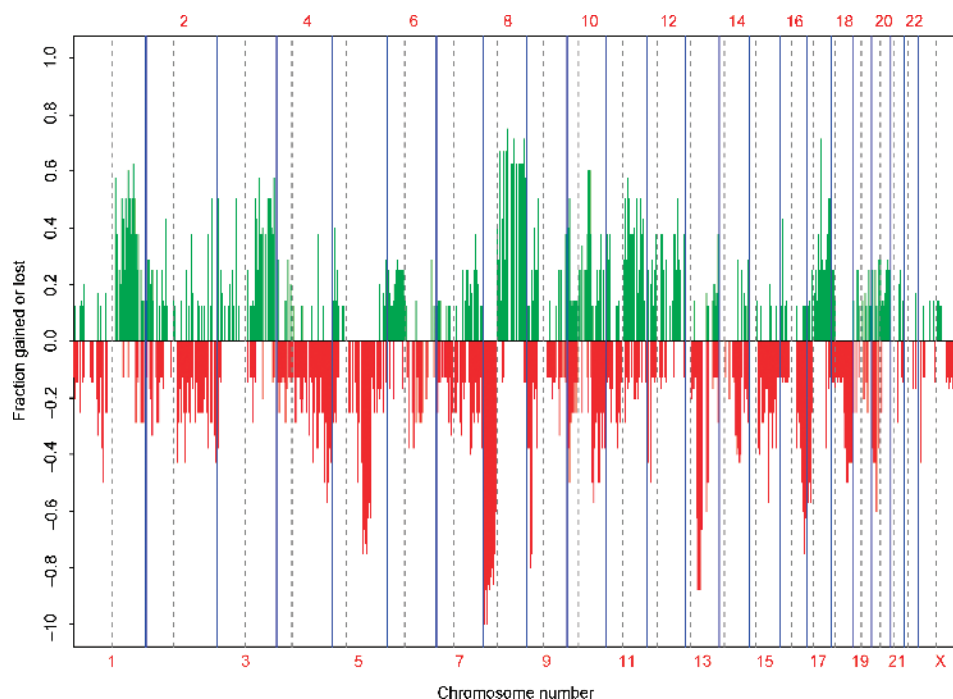
Tumor/reference fluorescence intensity ratios were converted to  $\log_2$  domain, and replicate spots were averaged. Observed  $\log_2$  ratios were excluded if there were fewer than two (of three) usable replicate spots, or if the standard deviation of replicates was  $> 0.2$ . Each array was normalized to have a median  $\log_2$  ratio of 0. To identify gained and lost clones in individual samples, sample-specific thresholds were constructed [6,7]. GEMCaP clones with  $\log_2$  ratios above or below ( $\pm$ ) a tumor's threshold were considered gained or lost, respectively. A Microsoft Excel (Seattle, WA)

macro written in our laboratory, was used to determine the percentage of aberrant GEMCaP loci based on inputted aCGH data and corresponding tumor-based threshold (TBT) for a given patient. All tumor aCGH data were analyzed with this macro. Frequent CNAs were plotted only using clones that were present in  $\geq 50\%$  of samples.

### Results

Whole genome aCGH was performed on eight HNLN tumors. Figure 1 displays the frequency of copy number changes across the whole genome for all eight hormone-naïve tumors. The numerical frequency for aberration, along with BAC clone names for this set of tumors, is provided in Table W1. Sixty-three percent of the clones with increased copy number that were aberrant at a frequency of  $\geq 50\%$  resided on chromosome 8. Similarly, 57% of frequently deleted clones (frequency of  $> 50\%$ ) mapped to chromosome 8. A summary highlighting some of the frequent (frequency of  $\geq 50\%$ ) CNAs identified by aCGH is shown in Table 1. In addition, a list of candidate genes that directly map to, or near, an aberrant clone is provided in Table 1.

aCGH was also performed on two primary tumors possessing matched HNLN tumors. The copy number profiles of matched primary and lymph node cases are shown in Figure 2. The median Pearson correlation between primaries and their matched metastasis was 0.88, as opposed to 0.21 for unrelated samples. The smallest correlation among related samples was 0.85, and the largest correlation among unrelated samples was 0.49. Note that the direct test comparing distributions of correlations between matched and unmatched samples leads to  $P < 1e^{-04}$  (Wilcoxon rank sum



**Figure 1.** Frequency plot for eight HNLN tumors. Green bars represent gains; red bars represent losses.

**Table 1.** Selection of Frequent ( $\geq 50\%$ ) CNAs in HNLN Tumors.

| (A)          |                             |              |                                           |
|--------------|-----------------------------|--------------|-------------------------------------------|
| Clone        | Frequency of CNA (Gain) (%) | Locus        | Candidate Genes                           |
| RP11-214E11  | 75                          | 8q21.13      | <i>TPD52</i>                              |
| RP5-1071I14* | 71                          | 17q21.33     | <i>NGFR</i>                               |
| RP11-80C11   | 71                          | 8q21.13      | <i>FABP5</i>                              |
| RP11-237F24  | 62                          | 8q24.21      | <i>MYC</i>                                |
| RP11-30I17   | 57                          | 1q21.1       | <i>PIAS3</i>                              |
| RP11-179B9   | 50                          | 3p14.1       | <i>Prickle2</i>                           |
| RP11-1146E5* | 50                          | 3q26.2       | <i>EVI1</i>                               |
| RP11-114M1*  | 50                          | 3q26.32      | <i>IRA1</i> (~ 500 kb away)               |
| RP11-548G17  | 50                          | 11q13.1      | <i>ARL2</i> , <i>SNX15</i> , <i>ZFPL1</i> |
| RP11-168B13  | 50                          | 11q13.4–13.5 | <i>RPS3</i>                               |
| RP11-46E14*  | 50                          | 17q25.3      | <i>CBX8</i> , <i>CBX4</i>                 |
| (B)          |                             |              |                                           |
| Clone        | Frequency of CNA (Loss) (%) | Locus        | Candidate Genes                           |
| RP11-246G24  | 100                         | 8p23.2       | <i>MYOM2</i> (~ 200 kb away)              |
| GS1-77L23    | 88                          | 7q32.1       | <i>LEP</i>                                |
| RP11-92C1    | 88                          | 8p22         | <i>DLC1</i>                               |
| RP11-252K12  | 88                          | 8p23.1       | <i>C8orf21</i>                            |
| RP11-122N11  | 88                          | 8p23.1       | <i>SPAG11</i>                             |
| RP11-287P18  | 88                          | 8p23.1       | <i>SPAG11</i> , <i>DEFBs</i>              |
| RP11-112G9   | 88                          | 8p23.1       | <i>MSRA</i>                               |
| RP11-17I11   | 88                          | 13q14.11     | <i>DNAJD1</i>                             |
| RP11-21H9    | 88                          | 13q14.11     | <i>TNFSF11</i>                            |
| RP11-217H23* | 88                          | 13q14.3      | <i>GTF2F2</i>                             |

\*GEMCaP clone.

test). Figure 3 shows a heat map of copy number changes across the genome of each tumor studied. The corresponding dendrogram also shows clustering of related samples. Aggregated hierarchical clustering with Ward method and Pearson correlation was used as a measure of similarity.

We compared the genomic profiles of the eight HNLN metastases to our existing aCGH database, which consists of 19 distant metastatic tumors, 12 primary tumors that progressed by prostate-specific antigen failure and confirmed bone metastases, and 32 primary tumors that did not relapse biochemically. In regards to gains, four clones were gained with statistical significance ( $P < .05$ ) in  $> 20\%$  of HNLN metastases, distant metastases, and primaries that progressed, but were gained in  $< 20\%$  of nonprogressors. Fourteen clones met this criterion for losses. Clone names and their corresponding CNA frequencies are listed in Table 2.

To evaluate some of the candidate genes identified in this study, existing and unpublished Affymetrix gene expression results for three lymph node tumors (HNLN8, HNLN12, and HNLN13) were queried. Gene expression for unmatched primary tumors was used for comparison. The following genes mapping to regions of copy number gain listed in Table 1 were represented on Affymetrix array: fatty acid-binding protein 5 (*FABP5*), tumor protein D52 (*TPD52*), nerve growth factor receptor (*NGFR*), myelocytomatosis viral oncogene homolog (*MYC*), protein inhibitor of activated STAT protein 3 (*PIAS3*), ADP ribosylation factor-like 2 (*ARL2*), sorting nexin 15 (*SNX15*), multiple endocrine neoplasia 1

(*MEN1*), ribosomal protein S3 (*RPS3*), chromobox homolog 8 (*CBX8*), and chromobox homolog 4 (*CBX4*). Table 3 shows the combined aCGH and expression results for HNLN8, HNLN12, and HNLN13. We further evaluated *FABP5* with *TaqMan* using RNA from two matched primary HNLN cases (PR1263 and PR1264) that were not included in the Affymetrix gene expression study. *FABP5* was selected because it was differentially and highly expressed in HNLN metastases compared to primaries (Table 3). There was a trend toward the upregulation of *FABP5* in HNLNs in the case with concordant copy number change (PR1264HNLN), as well as in the case without it (PR1263) (Figure 4).

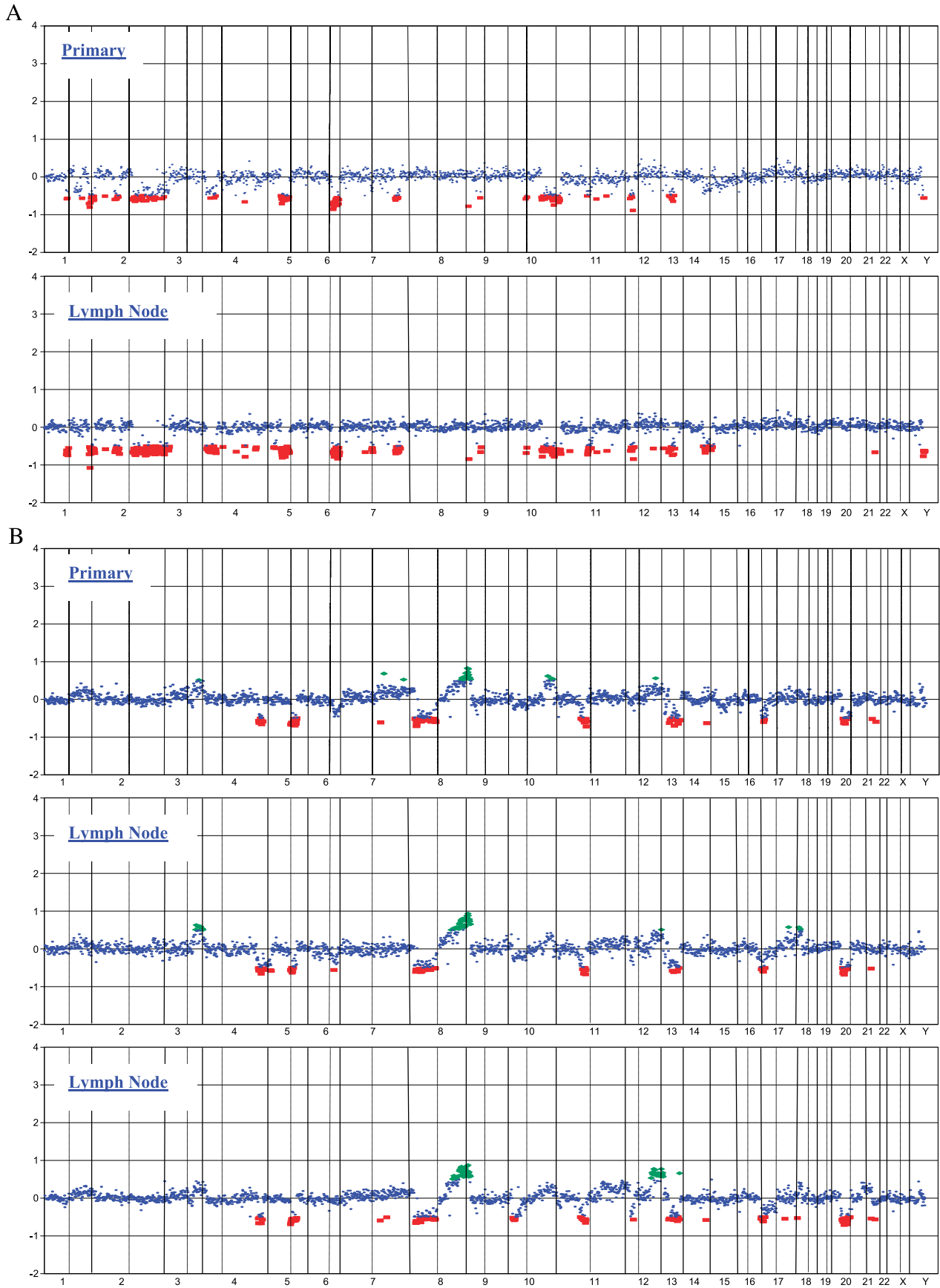
## Discussion

Zitzelsberger et al. [3] performed CGH on a set of five HNLN metastases. A direct comparison with our aCGH results could not be made because CGH has a lower resolution. However, based on their published ideogram, they also observed gains involving 2p, 8q, 9q, 17, 20, and X, and losses involving 2p, 2q, 3p, 3q, 4q, 8p, 11q, 13q, and X (Figure 1).

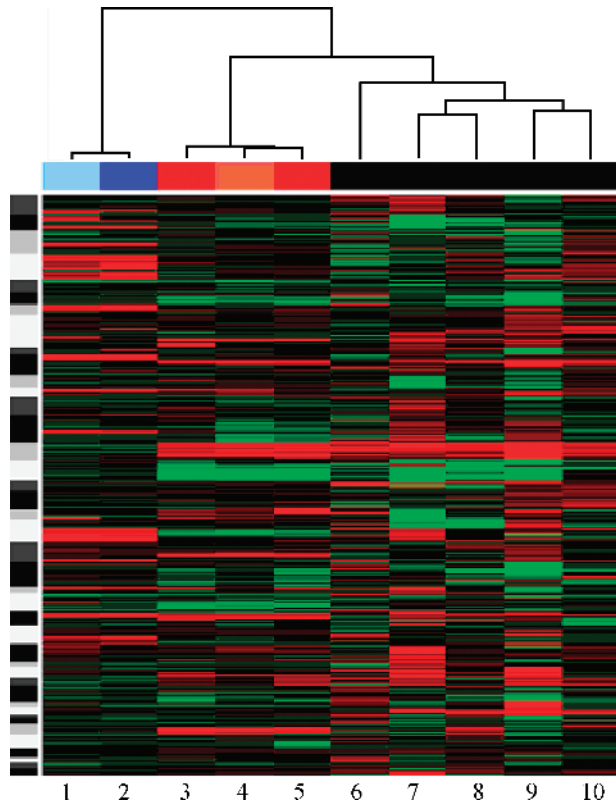
The majority of frequently deleted metastasis-associated regions in our tumor set map to chromosome 8p, which has been documented to be involved in prostate cancer [6,8–12]. In a study of 64 primary tumors, we found 8p loss to be associated with advanced stage disease ( $pT \geq 3$ ) [6]. Tumor-node-metastasis stage  $\geq 3$  indicates extracapsular extension and invasion of seminal vesicles or adjacent structures [13].

When comparing expression levels in HNLNs to those in primary tumors, assuming that normal expression corresponds to a value of  $\sim 50$ , copy number gain corresponded to increased expression for all genes except *NGFR* and chromobox homologs (Table 3). *SNX15* showed only a slight increase in expression for the HNLN sample with copy number gain at that locus. Some genes were upregulated in primary tumors and HNLN metastatic tumors, namely, *TPD52*, *FABP5*, *MYC*, *MEN1*, and *RPS3*. *MYC* and *FABP5* were the only genes queried that showed a large increase in expression for the HNLNs compared to high levels in primary tumors. We further validated *FABP5* upregulation in matched primary HNLN cases (PR1263 and PR1264) using *TaqMan* (Figure 4). The HNLNs (HNLN8 and HNLN12) with high expression of *TPD52* also had increased copy number at that locus. Interestingly, the nodal tumor HNLN13 did not show copy number gain at the *TPD52* locus, but had increased expression of *TPD52*, suggesting an independent mechanism leading to aberrant *TPD52* gene expression. This provides further evidence of the important role that *TPD52* may play in cancer [14]. The trend of expression change without corresponding copy number change was also observed for *RPS3*, which has been shown to be upregulated in colon cancer [15], and for the *ARL2* and *SNX15* genes, which both map to the 11q13 CNA locus.

Several putative metastasis-related genes that were identified in this study and validated by expression studies have been previously reported to be involved in prostate cancer. Two independent expression studies focusing on *FABP5* found it to be upregulated in prostate cancer relative to normal



**Figure 2.** aCGH whole genome CNA profiles for the two matched primary and lymph node tumors. The primary case is displayed first for each set. (A) Unilateral case. (B) Bilateral case.



**Figure 3.** Heat map for all eight HNLN tumors and two primary prostate tumors. Red represents loss; green denotes copy number gain. 1 = PR1263-primary; 2 = PR1263HNLN; 3 = PR1264leftHNLN; 4 = PR1264primary; 5 = PR1264rightHNLN; 6 = HNLN13; 7 = HNLN10; 8 = HNLN12; 9 = HNLN8; 10 = HNLN11.

**Table 3.** Expression Levels in a Subset of HNLN Metastases for Genes Mapping to Frequent CNAs in HNLN Tumors.

| Gene         | Mean                  |         |         |         |
|--------------|-----------------------|---------|---------|---------|
|              | Primaries<br>(n = 15) | HNLN8   | HNLN12  | HNLN13  |
| <i>TPD52</i> | 408.76                | 338.43  | 284.87  | 265.83  |
| <i>NGFR</i>  | 38.72                 | 42.54   | 28.30   | 35.25   |
| <i>FABP5</i> | 671.08                | 2990.93 | 1776.89 | 35.46   |
| <i>MYC</i>   | 231.68                | 342.6   | 1232.99 | 263.41  |
| <i>PIAS3</i> | 93.93                 | 55.54   | 38.79   | 76.69   |
| <i>ARL2</i>  | 53.46                 | 186.49  | 92.27   | 32.53   |
| <i>SNX15</i> | 84.2                  | 95.27   | 86.63   | 62.86   |
| <i>MEN1</i>  | 113.92                | 225.55  | 155.01  | 120.52  |
| <i>RPS3</i>  | 5060.5                | 5855.31 | 5719.49 | 5644.25 |
| <i>CBX4</i>  | 51.82                 | 59.67   | 43.51   | 60.83   |
| <i>CBX8</i>  | 26.35                 | 43.25   | 28.32   | 35.30   |

Corresponding copy number data are also codified for reference. Gray represents copy number gain, and white indicates that normal copy number was observed. An expression level of ~ 50 is considered normal.

prostate [16,17]. In addition, a query of two whole transcriptome studies showed *FABP5* to be upregulated in metastatic tumors (including lymph nodes) compared to primary and normal prostate tissues [2,18]. *FABP5* has been proposed to be a metastasis-inducing gene [17,19]. Previous work has shown that *FABP5* acts by upregulating vascular endothelial growth factor to induce invasion *in vitro* and metastasis *in vivo* [16,19]. The candidate oncogene *TPD52* has been found to be upregulated in prostate cancer at DNA, RNA, and protein levels [14]. The *ARL2* and *SNX15* genes map ~ 200 kb from *MEN1*. We previously reported *MEN1* as

**Table 2.** CNAs More Frequently Found in Primaries That Progressed, and Metastases Versus Nonprogressors.

| (A)            |                |                     |                                 |                            |                                |                 |       |
|----------------|----------------|---------------------|---------------------------------|----------------------------|--------------------------------|-----------------|-------|
| Clone Mapt 5.0 | Locus          | Gene                | Gains (%)                       |                            |                                |                 | P     |
|                |                |                     | Primary Progressors<br>(n = 12) | Nonprogressors<br>(n = 32) | Harvard Metastases<br>(n = 19) | HNLN<br>(n = 8) |       |
| RP11-1146E5*   | 3q26.2         | <i>EV11</i>         | 20                              | 0                          | 39                             | 50              | .0003 |
| RP4-693L23*    | 11p15.5        | <i>p57</i>          | 45                              | 14                         | 53                             | 38              | .008  |
| RP11-46E14*    | 17q25.3        | <i>CBX8, CBX4</i>   | 27                              | 15                         | 56                             | 38              | .03   |
| RP11-114M1*    | 3q26.32        | <i>IRA1</i>         | 45                              | 13                         | 42                             | 50              | .01   |
| (B)            |                |                     |                                 |                            |                                |                 |       |
| Clone Mapt 5.0 | Locus          | Gene                | Deletions (%)                   |                            |                                |                 | P     |
|                |                |                     | Primary Progressors<br>(n = 12) | Nonprogressors<br>(n = 32) | Harvard Metastases<br>(n = 19) | HNLN<br>(n = 8) |       |
| RP11-232J22*   | 8p21.2         | <i>BNIP3L</i>       | 27                              | 11                         | 53                             | 75              | .0013 |
| CTD-2015D3*    | 8p21.2         | <i>ADRA1A</i>       | 25                              | 17                         | 63                             | 57              | .0013 |
| RP11-57I3*     | 8p12           | <i>NRG1</i>         | 36                              | 6                          | 56                             | 71              | .0001 |
| RP11-262I23    | 8p11.22–p11.21 | <i>INDO</i>         | 27                              | 3                          | 24                             | 50              | .0038 |
| RP11-28L24*    | 6q21           | <i>LAMA4</i>        | 36                              | 7                          | 35                             | 25              | .015  |
| RP11-262B7     | 8p23.1         | Not in database     | 25                              | 13                         | 35                             | 88              | .0145 |
| CTD-2173J2*    | 13q14.2        | <i>RB</i>           | 25                              | 3                          | 61                             | 38              | .0001 |
| CTD-2079J2*    | 5q21.3         | <i>FER</i>          | 45                              | 13                         | 29                             | 71              | .0133 |
| RP11-73N22     | 5q23.1         | No gene             | 36                              | 8                          | 21                             | 63              | .0185 |
| RP11-115L24    | 5q21.2         | No gene             | 45                              | 14                         | 33                             | 75              | .0081 |
| RP11-76B12*    | 8p21.2         | <i>DOCK5</i>        | 25                              | 13                         | 50                             | 50              | .015  |
| RP11-70L1      | 8p21.2         | <i>GNRH1, KCTD9</i> | 25                              | 19                         | 53                             | 63              | .0228 |
| RP11-217H23    | 13q14.13       | <i>GTF2F2</i>       | 27                              | 3                          | 53                             | 88              | .0001 |
| RP11-241I4     | 8p23.1         | <i>MSRA</i>         | 30                              | 12                         | 37                             | 88              | .0059 |

\*GEMCaP clone.

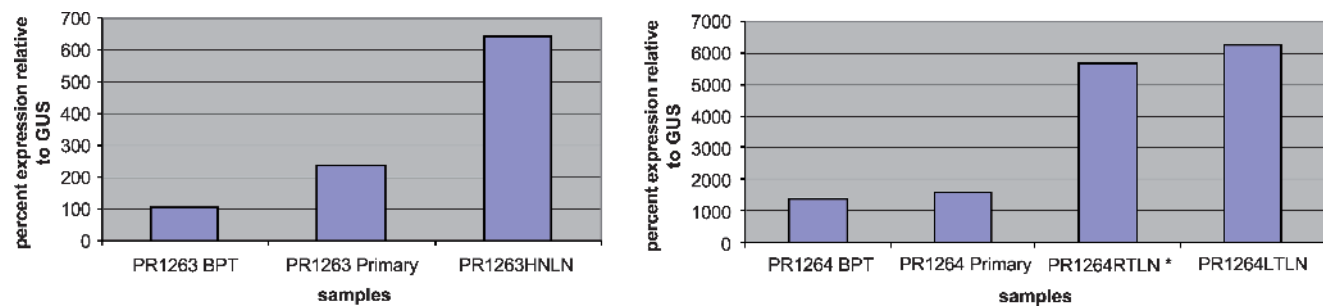


Figure 4. FABP5 TaqMan results for matched primary and HNLN cases. BPT = benign prostatic tissue. \*A sample with aCGH copy number gain.

a candidate oncogene in prostate cancer [6]. More specifically, copy number gain at the 11q13.1 locus associates with cases that fail biochemically following radical prostatectomy. *MEN1* was found, with expression data, to be upregulated in three lymph nodes (HNLN8, HNLN12, and HNLN13), as well as in primary tumors. Only one of three nodes (HNLN8) had corresponding copy number gain. This stresses the importance of the role that *MEN1* might play in prostate cancer. In addition, a query in the Oncomine expression database (<http://www.oncomine.org>) for upregulated genes provided similar results in Table 3. The genes *FABP5*, *TPD52*, *MYC*, *RPS3*, and *SNX15* had expression data available for HNLNs. Similar to our findings, these genes showed a trend toward increased expression in HNLNs [2].

We recently reported a set of 39 biomarkers, which we termed GEMCaP, that corresponds to regions of the human genome that are more frequently altered in primary prostate tumors recurring after surgical removal, as well as in actual metastases [6]. GEMCaP consists of 16 amplified loci and 23 deleted loci. Four of the amplified GEMCaP loci were among the frequent CNAs in this study (Table 1). We have previously demonstrated that when > 20% of the GEMCaP loci are altered, patients are at high risk for recurrence following radical prostatectomy [20]. The eight HNLNs had copy number changes at 5%, 27%, 34%, 45%, 46%, 54%, 58%, and 60% of the GEMCaP loci. Therefore, seven of eight HNLNs fitted our criteria for an aggressive genotype. The entire GEMCaP results are supplied as Table W1. The whole genome aCGH profile for the HNLN sample with only a 5% GEMCaP score possessed primarily deletions. We have observed this genotype in other sets of primary and metastatic tumors (data not shown). This deletion genotype appears to represent a small fraction (< 10%) of prostate tumors. In our aCGH database query (Table 2), all four clones that were more frequently gained in metastatic tumors and primaries that progressed were GEMCaP clones. A similar analysis for deletions resulted in seven GEMCaP clones.

Our results show a high degree of concordance between the genomic copy number profiles of matched primary and metastasis cases. This is similar to what we observed in a cohort of unmatched primaries and metastatic tumors [6]. A CGH study by Zitzelsberger et al. [3] showed common changes for matched primaries and HNLN cases, but it only listed gains of 9q and 16 and loss of 13q as CNAs in common. Two previous reports that studied primaries and matched

lymph node metastases by fluorescence *in situ* hybridization (FISH) reported that chromosomal changes in lymph node tumors resembled those from primary tumors [21,22]. Even though FISH studies included only selected regions on chromosomes 7, 8, 10, 12, and 17, this is in line with our observations.

This study emphasizes the importance of studying metastatic tumors, as well as primary tumors. Biomarkers of aggressive disease were found in HNLN metastatic lesions. Genomic profiles of matched primaries and lymph node metastases were found to be very similar. Studies such as these can highlight genomic changes in primary tumors that can be used for the early detection of aggressive tumors and, conversely, for the identification of patients who can safely elect active surveillance. In addition, these types of study can identify drug targets with associated biomarkers.

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**Table W1.** Frequency of Copy Number Changes for 8 Hormone-Naïve Lymph Node Metastases.

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-108H14 | 37073  | 484      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-502    | 102605 | 1718     | 12    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-66H6   | 11003  | 1959     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-107L14 | 2535   | 2221     | 20    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-40P23  | 87879  | 1858     | 14    | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-73G2   | 56509  | 1981     | 16    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-51H8   | 168854 | 601      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-89J2   | 124495 | 1732     | 12    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-58M3   | 71389  | 2001     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-47D7   | 11611  | 1464     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-109L8  | 65016  | 1689     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-22I14  | 57076  | 1122     | 8     | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RP11-145O12 | 61602  | 1838     | 14    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2014B13 | 100810 | 403      | 3     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-141F8  | 105025 | 1722     | 12    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-36N1   | 71706  | 2002     | 16    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-34J24  | 55242  | 919      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-54O15  | 93007  | 1266     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-206J4  | 62917  | 1841     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-49N21  | 19727  | 866      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-5K16   | 142054 | 577      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-29C11  | 39869  | 2069     | 17    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-275J17 | 185293 | 621      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-64I2   | 39270  | 892      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-101N17 | 120664 | 557      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-9M20   | 43736  | 2075     | 17    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| CTD-2094H4  | 16436  | 762      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RMC01P52    | 39774  | 34       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-268H17 | 39398  | 2068     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2105I3  | 17511  | 1062     | 8     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-79N22  | 18622  | 466      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-270O2  | 14930  | 2376     | 23    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-83L17  | 26923  | 2329     | 21    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-49M7   | 91474  | 542      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-39E13  | 40179  | 2389     | 23    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-124D1  | 47924  | 2287     | 20    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| CTD-2043O8  | 47334  | 1665     | 12    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP1-14I12   | 23232  | 1884     | 15    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| CTC-296K1   | 43333  | 2074     | 17    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-75H24  | 58500  | 1538     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP1-95H6    | 2765   | 2033     | 17    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| CTD-2259P11 | 41660  | 2071     | 17    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-232J22 | 26282  | 1079     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| GS-185O2    | 49140  | 2156     | 18    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-111O5  | 4262   | 4        | 1     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-813J5  | 9498   | 7        | 1     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-350H23 | 5869   | 148      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| CTD-2271H24 | 50670  | 2205     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-184N12 | 167345 | 96       | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2003M22 | 68630  | 229      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17D23  | 61500  | 217      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-246J15 | 199369 | 112      | 1     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| CTB-138N2   | 139695 | 423      | 3     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-270G18 | 190503 | 316      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| GS1-35M23   | 83581  | 946      | 7     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| CTD-2020N9  | 109812 | 1287     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-69O6   | 122083 | 263      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RMC20P058   | 40437  | 2268     | 20    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-95J4   | 111201 | 1289     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| CTD-2110H9  | 81611  | 1937     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-94E6   | 33747  | 659      | 5     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-8D10   | 80348  | 1247     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2236H16 | 99516  | 2411     | 23    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-163H6  | 172970 | 438      | 3     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| RP11-9I18   | 88624  | 1260     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2177J24 | 54012  | 2090     | 17    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-560C7  | 23120  | 173      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-51D11  | 179290 | 750      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP1-117G9   | 72883  | 935      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-306N14 | 24594  | 176      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-283O4  | 33695  | 1504     | 11    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-165O14 | 5964   | 1201     | 9     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-94K4   | 75202  | 515      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-219O3  | 36373  | 1512     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-183B1  | 101567 | 550      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTB-146A2   | 4360   | 849      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2027I18 | 150092 | 1026     | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-65C15  | 84018  | 1253     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-53C3   | 26255  | 1657     | 12    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-12L9   | 111910 | 979      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-49G2   | 22094  | 1654     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTC-437H15  | 70009  | 1566     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-156E22 | 65768  | 1845     | 14    | 7              | 2           | 2           | 0.88            | 0.29         | 0.29         |
| CTB-65D18   | 21958  | 1215     | 9     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-86O9   | 98058  | 1871     | 14    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP1-44H16   | 0      | 1447     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| GS1-9J21    | 133332 | 1006     | 7     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-172C21 | 54558  | 2306     | 20    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| GS1-225F6   | 154000 | 2433     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-174L5  | 14736  | 1649     | 12    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-170H2  | 12616  | 1468     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2020E14 | 31264  | 1089     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-192A12 | 38668  | 33       | 1     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| GS1-42C19   | 5757   | 850      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-97N5   | 133683 | 2423     | 23    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-77E11  | 120497 | 1425     | 10    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTC-574G24  | 141243 | 1019     | 7     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| CTD-2101H1  | 522    | 1448     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-284E5  | 191656 | 319      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-125O21 | 99284  | 1153     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| GS-108B23   | 43030  | 2274     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2010C4  | 64641  | 50       | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-53F2   | 29422  | 477      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| GS1-240H2   | 71275  | 932      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2118L22 | 151112 | 724      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-120N14 | 70364  | 1130     | 8     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-29N19  | 75120  | 1852     | 14    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-170O16 | 12777  | 1962     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-57G7   | 31711  | 2259     | 20    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-73G16  | 153406 | 590      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-11E14  | 58468  | 1984     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-41G4   | 163266 | 598      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-92P22  | 74053  | 1695     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-27D1   | 75107  | 2003     | 16    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-49K17  | 29464  | 1493     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-110K11 | 174    | 1640     | 12    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| GS-115H3    | 170803 | 437      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-99C24  | 88848  | 1859     | 14    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2091K6  | 188760 | 448      | 3     | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-81O20  | 74541  | 1851     | 14    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP11-14J15  | 69411  | 1999     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-14K11  | 54871  | 916      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-44J18  | 68066  | 1237     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-188G21 | 91159  | 1864     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-51L23  | 18475  | 863      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-46P18  | 112354 | 1291     | 9     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-36J16  | 47275  | 2079     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-85P1   | 184648 | 620      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-3L22   | 40593  | 894      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-59M15  | 68022  | 1848     | 14    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-4F24   | 1965   | 2026     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| CTD-2144B12 | 26202  | 775      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-60P1   | 58940  | 2163     | 18    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-208D7  | 33484  | 2058     | 17    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| CTD-2041G23 | 116987 | 989      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-11M9   | 19188  | 467      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-48D14  | 19893  | 2380     | 23    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-181G18 | 16652  | 2318     | 21    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-21O14  | 97135  | 546      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-8G18   | 46119  | 2393     | 23    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-13F12  | 41643  | 2271     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2027F9  | 15665  | 1651     | 12    | 5              | 1           | 1           | 0.62            | 0.2          | 0.2          |
| RP1-154P1   | 101000 | 1951     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2015D3  | 26578  | 1081     | 8     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-96D22  | 72765  | 1570     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP1-308F9   | 2765   | 2032     | 17    | 5              | 0           | 0           | 0.62            | 0            | 0            |

Table W1. (continued)

| Clone                 | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-----------------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| CTB-12F4              | 63810  | 1546     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-138J2            | 27243  | 1082     | 8     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| Vysis-DPC4/SMAD4_282B | 46839  | 2153     | 18    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-901H12           | 21288  | 364      | 3     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-138K16           | 99419  | 65       | 1     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| CTD-2194B23           | 22710  | 17       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-557N1            | 6585   | 149      | 2     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| CTD-2009P15           | 2851   | 2222     | 20    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-137N24           | 172361 | 100      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2018G3            | 151527 | 285      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-270B14           | 62347  | 219      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-148K15           | 201749 | 115      | 1     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-1146E5           | 170127 | 435      | 3     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-16H9             | 190982 | 318      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS1-208J7             | 66469  | 924      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2108N10           | 22622  | 1339     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-368K23           | 115271 | 254      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RMC20P131             | 47237  | 2286     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-117J18           | 12628  | 1207     | 9     | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| CTD-2085L22           | 24198  | 1969     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-9G14             | 41329  | 662      | 5     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-8C21             | 87222  | 1257     | 9     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2060E7            | 146341 | 2428     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-125E8            | 185297 | 446      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-8L13             | 69380  | 1239     | 9     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2100E13           | 19276  | 2141     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-484O9            | 11884  | 162      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-49D19            | 62290  | 1543     | 11    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP4-747G18            | 100334 | 966      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-509E16           | 25317  | 179      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-3E12             | 34632  | 1505     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-13A18            | 141508 | 1191     | 8     | 7              | 4           | 1           | 0.88            | 0.57         | 0.14         |
| RP11-78K8             | 75320  | 518      | 4     | 3              | 1           | 0           | 0.38            | 0.33         | 0            |
| CTB-1D14              | 20589  | 867      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-195J3            | 46046  | 1527     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-130M1            | 124272 | 563      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| GS-126B28             | 122904 | 1429     | 10    | 4              | 1           | 1           | 0.5             | 0.25         | 0.25         |
| CTD-2051H12           | 139842 | 1018     | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-61D22            | 19585  | 1214     | 9     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-64J11            | 95599  | 1711     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-78C11            | 114104 | 980      | 7     | 5              | 1           | 2           | 0.62            | 0.2          | 0.4          |
| RP11-3P19             | 105448 | 1724     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTC-352E23            | 76098  | 1578     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-90G22            | 99131  | 1873     | 14    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| CTD-2105O17           | 93550  | 1269     | 9     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-263K23           | 61706  | 1684     | 12    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-3I14             | 62316  | 1988     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP4-693L23            | 2869   | 1450     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| CTB-20D2              | 106595 | 972      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-195N11           | 54446  | 2305     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| GS-118K5              | 6597   | 2373     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-184C7            | 65483  | 1690     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-51J14            | 33310  | 1502     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2178F17           | 118768 | 1163     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-12L18            | 57857  | 42       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS1-53N21             | 81611  | 944      | 7     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-96G7             | 125353 | 2419     | 23    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-16H3             | 26560  | 1489     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS1-202O8             | 49775  | 911      | 7     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2115C17           | 32374  | 1500     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-341A4            | 188269 | 315      | 2     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-145G10           | 128500 | 1174     | 8     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| CTB-54J7              | 115962 | 986      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2077L2            | 148481 | 83       | 1     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-266E24           | 30264  | 478      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS1-32L15             | 52046  | 914      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2076G21           | 144968 | 579      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-268N2            | 49118  | 1105     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-18G18            | 68573  | 1849     | 14    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-181O4            | 20413  | 1967     | 16    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-23B22            | 31326  | 2258     | 20    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-119B13           | 155127 | 591      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-110A13           | 62029  | 1987     | 16    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |

Table W1. (continued)

| Clone           | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-----------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-189F4      | 175400 | 610      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-96F19      | 75752  | 1696     | 12    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-217K3      | 76297  | 2005     | 16    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-90F13      | 34776  | 1507     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-112M10     | 49870  | 1670     | 12    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS-7N12         | 76760  | 1579     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-123M6      | 99216  | 1874     | 14    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| CTD-2074K5      | 75203  | 516      | 4     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-74I8       | 51016  | 1673     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-123C5      | 68772  | 1997     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-217O10     | 45498  | 904      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-52E12      | 98250  | 1279     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-270C6      | 56724  | 1836     | 14    | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-71F18      | 19184  | 865      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-67G24      | 82882  | 528      | 4     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-50F16      | 58502  | 2095     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-196K13     | 185332 | 622      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-70D20      | 41166  | 897      | 7     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-63D17      | 76416  | 1853     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-9A21       | 7671   | 2040     | 17    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| CTD-2009C6      | 64226  | 803      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| DMPC-HFF#1-61H8 | 38260  | 2062     | 17    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-241H2      | 33563  | 2059     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2001C15     | 58619  | 43       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-11M9       | 19188  | 467      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-124H12     | 31163  | 2385     | 23    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-44F3       | 26442  | 2325     | 21    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-161I7      | 94902  | 545      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-149I10     | 65192  | 2399     | 23    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-51K19      | 47999  | 2288     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2063K20     | 131879 | 1308     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2371A5      | 44     | 1952     | 16    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| CTD-2202J2      | 38842  | 1749     | 13    | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-102M18     | 73337  | 1572     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP1-1J20        | 2704   | 2031     | 17    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2244P3      | 47245  | 1530     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-116F9      | 28178  | 1083     | 8     | 5              | 0           | 4           | 0.62            | 0            | 0.8          |
| RP11-507P3      | 77000  | 2175     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2109N6      | 50293  | 382      | 3     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-156G15     | 101060 | 66       | 1     | 6              | 0           | 3           | 0.75            | 0            | 0.5          |
| CTD-2098K5      | 32248  | 26       | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-439M11     | 6962   | 151      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2019H1      | 44479  | 2279     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-162L13     | 182956 | 106      | 1     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| CTD-2250B20     | 158734 | 293      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-240J3      | 63882  | 220      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-249H15     | 202636 | 117      | 1     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| CTB-364E3       | 180238 | 443      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-284E5      | 191656 | 319      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-121J16      | 154922 | 1031     | 7     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTB-46B12       | 89289  | 1395     | 10    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-98C1       | 118783 | 256      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RMC20P070       | 53691  | 2304     | 20    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-95G21      | 89148  | 1261     | 9     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2237N10     | 854    | 2024     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-10D13      | 178    | 1311     | 10    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-5K11       | 98443  | 1281     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| CTD-164O19      | 11033  | 2181     | 19    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-18D18      | 112724 | 553      | 4     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-144L7      | 38085  | 1234     | 9     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2019O2      | 46686  | 2078     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-496P1      | 14257  | 164      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-160L9      | 67049  | 1556     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP1-3K23        | 159000 | 1034     | 7     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-443B20     | 24995  | 177      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-145B20     | 35241  | 1508     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-88M23      | 134425 | 1183     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-80I4       | 76371  | 522      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-156A13     | 11685  | 1465     | 11    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-119K21     | 115227 | 554      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS-274P9        | 61124  | 216      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2007G21     | 93098  | 959      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-61G7       | 35800  | 1230     | 9     | 8              | 2           | 0           | 1               | 0.25         | 0            |

Table W1. (continued)

| Clone            | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|------------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-74K11       | 93024  | 1705     | 12    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-110C11      | 114969 | 982      | 7     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-16M7        | 63300  | 1687     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RMC22P003        | 37863  | 2365     | 22    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-121H7       | 100382 | 1876     | 14    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-3145B15      | 131043 | 1307     | 9     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-24M13       | 8154   | 1956     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-2I4         | 55603  | 1979     | 16    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| CTD-2208J5       | 32374  | 1499     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTC-520A9        | 40815  | 895      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-55E1        | 53054  | 2300     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP4-677N1        | 7911   | 2375     | 23    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-196H14      | 62763  | 1685     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-56E13       | 47997  | 1531     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2005M12      | 118645 | 1161     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-6B16        | 81966  | 57       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-79N19       | 109584 | 2415     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-72A10       | 36741  | 1515     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTB-141D22       | 90029  | 954      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2192B11      | 69134  | 1560     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-2C13        | 198635 | 323      | 2     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-158K1       | 125385 | 1166     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-51P23       | 8833   | 1957     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2084F3       | 168844 | 98       | 1     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-53F9        | 30614  | 480      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS1-74E4         | 119322 | 990      | 7     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| CTD-2141B2       | 112438 | 696      | 5     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-83O14       | 53073  | 1109     | 8     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-9D19        | 99306  | 1875     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-141E3       | 23518  | 1968     | 16    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-103H2       | 9084   | 2235     | 20    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-218A2       | 152620 | 587      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-52B24       | 64926  | 1989     | 16    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-130I2       | 169974 | 603      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-96K24       | 13644  | 1648     | 12    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-224E17      | 68595  | 1996     | 16    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-98J9        | 13767  | 1470     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-114G18      | 80359  | 1698     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTC-432H16       | 46969  | 2285     | 20    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-140I4       | 90544  | 1862     | 14    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2103L3       | 75331  | 519      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-73I12       | 31301  | 1661     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-230E8       | 71378  | 2000     | 16    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-146C1       | 46877  | 908      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-54O21       | 71119  | 1240     | 9     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-266F20      | 56641  | 1835     | 14    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-70K3        | 18118  | 862      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-11P12       | 84059  | 530      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-60B6        | 85116  | 2016     | 16    | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-272O3       | 179302 | 615      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-115G1       | 38494  | 891      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-63G22       | 63384  | 1842     | 14    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-9G4         | 53875  | 2089     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2015J17      | 137396 | 834      | 6     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| DMPC-HFF#1-359E5 | 89168  | 1944     | 15    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-225G19      | 73078  | 2105     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2064P10      | 215672 | 131      | 1     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-238L9       | 20415  | 469      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-258I23      | 40235  | 2390     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-70L17       | 29646  | 2332     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-221M14      | 91710  | 543      | 4     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-177A4       | 68131  | 2402     | 23    | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-93L19       | 40260  | 2267     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2156P3       | 22596  | 1808     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-380F1       | 3778   | 1954     | 16    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTB-172A10       | 92707  | 1265     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-168B13      | 74815  | 1573     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP1-89K1         | 7773   | 2041     | 17    | 1              | 0           | 0           | 0.12            | 0            | 0            |
| CTD-2100I14      | 47052  | 37       | 1     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-275K7       | 28889  | 1084     | 8     | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| CTB-129F16       | 0      | 2176     | 19    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-865O5       | 52540  | 384      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-182H2       | 101148 | 67       | 1     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |

Table W1. (continued)

| Clone        | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|--------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| CTD-2229N1   | 91580  | 63       | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-542B5   | 8136   | 152      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2201B8   | 33393  | 2260     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-134C1   | 185224 | 108      | 1     | 5              | 3           | 0           | 0.62            | 0.6          | 0            |
| CTD-2221F19  | 234370 | 346      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-447N19  | 64122  | 221      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-219P13  | 202893 | 118      | 1     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| CTD-2224I19  | 1864   | 457      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-30N9    | 180832 | 310      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| GS1-207P11   | 85864  | 948      | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-729B4   | 59956  | 1542     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-416H1   | 122459 | 265      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RMC20B4135   | 51669  | 2297     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-96B7    | 74535  | 1243     | 9     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2008I6   | 7802   | 2042     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-72C6    | 7901   | 1322     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-4O1     | 110120 | 1288     | 9     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-1024P17 | 30710  | 371      | 3     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-131K16  | 121886 | 559      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-130E20  | 129650 | 1305     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2017G14  | 9821   | 2131     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-146J19  | 14033  | 163      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-256P19  | 71659  | 1568     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| GS1-77L23    | 0      | 1035     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-527I18  | 26766  | 180      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-36H11   | 36361  | 1511     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-28A4    | 136665 | 1187     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-115K14  | 76058  | 521      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-61G3    | 31101  | 2336     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-82N15    | 67488  | 1693     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2067A9   | 79459  | 941      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-58B8    | 11640  | 1205     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-51M11   | 89158  | 1700     | 12    | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP11-51M22   | 115396 | 983      | 7     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-3E7     | 105578 | 1725     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| GS-2B19      | 48398  | 2289     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-110L8   | 83412  | 2011     | 16    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| GS1-135I17   | 137000 | 1309     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-261M2   | 93927  | 1708     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-106L3   | 57967  | 1983     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2337C7   | 44601  | 1524     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTC-224F8    | 96636  | 962      | 7     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-78P4    | 1972   | 2220     | 20    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP1-92E23    | 71907  | 2405     | 23    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-206D16  | 18417  | 1652     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-85A19   | 48099  | 1532     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2013D21  | 110377 | 1160     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-4J2     | 174528 | 101      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTB-102E19   | 87477  | 950      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-267D20  | 134636 | 2425     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP1-88B16    | 69100  | 1559     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| GS1-53I5     | 144769 | 1022     | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2057A4   | 107774 | 1609     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-329O10  | 203860 | 326      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-128G18  | 127639 | 1173     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-58M17   | 8997   | 1958     | 16    | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| CTD-2159A18  | 233669 | 138      | 1     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-205N12  | 30469  | 479      | 4     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| CTC-277H20   | 111198 | 977      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2110E3   | 75331  | 520      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-175H20  | 53297  | 1111     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-26J5    | 92807  | 1866     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-150K5   | 29955  | 1971     | 16    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-215H8   | 78686  | 1582     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-192D11  | 160107 | 596      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-154N7   | 66171  | 1990     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-254A7   | 170539 | 604      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-97A6    | 60918  | 1682     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-178P16  | 82157  | 2010     | 16    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-102N4   | 36674  | 1514     | 11    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-119J21  | 129158 | 1736     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS-229A1     | 180452 | 104      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-128L1   | 98738  | 1872     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| CTD-2015K11 | 8857   | 2234     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-82I16  | 92401  | 1704     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-1B11   | 81884  | 2009     | 16    | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| RP11-52M17  | 44369  | 903      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-57N18  | 73439  | 1242     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-242D1  | 57707  | 1837     | 14    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-34N11  | 29280  | 875      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-203P12 | 88522  | 538      | 4     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-89A15  | 8460   | 2043     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-18D7   | 184254 | 619      | 4     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-141P12 | 42828  | 899      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-141N1  | 91384  | 1702     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-26B13  | 77146  | 2112     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| CTD-2043F20 | 160238 | 838      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP1-254N16  | 16108  | 167      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-201E5  | 74492  | 2108     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2074H8  | 91856  | 955      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-35E16  | 23295  | 470      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-126A13 | 54384  | 2396     | 23    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-108H5  | 26789  | 2328     | 21    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-203M9  | 99792  | 548      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-94J8   | 113066 | 2417     | 23    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-111H12 | 40192  | 2266     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2017D5  | 88211  | 1699     | 12    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| GS-205F7    | 68547  | 1995     | 16    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| CTD-2008N7  | 47663  | 1668     | 12    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-258M15 | 33579  | 1092     | 8     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP1-172N16  | 2765   | 2034     | 17    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2145H2  | 201307 | 114      | 1     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-133O7  | 39855  | 1099     | 8     | 3              | 0           | 3           | 0.38            | 0            | 1            |
| GS1-325I23  | 64000  | 2215     | 19    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2271B13 | 48055  | 496      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-12P11  | 112584 | 408      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2050A15 | 109770 | 70       | 1     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-434B12 | 8710   | 154      | 2     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| CTD-2220O2  | 46514  | 2282     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-165M11 | 144684 | 426      | 3     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-51D22  | 24139  | 368      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-568N6  | 64599  | 222      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-172G5  | 174407 | 440      | 3     | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| CTC-205I10  | 88194  | 536      | 4     | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-67G7   | 183183 | 312      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-59D10  | 120789 | 826      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-867O8  | 64802  | 1549     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-498O20 | 122959 | 267      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-34L12  | 82259  | 1583     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-62M23  | 3368   | 3        | 1     | 4              | 1           | 1           | 0.5             | 0.25         | 0.25         |
| RP11-670E13 | 55365  | 2091     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-28P14  | 6776   | 355      | 3     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-254E16 | 84258  | 60       | 1     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-725K8  | 48986  | 2155     | 18    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-77F4   | 152716 | 588      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-192J8  | 117849 | 79       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2014H17 | 65844  | 1846     | 14    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-257N21 | 34332  | 194      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-218M19 | 21360  | 1879     | 15    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-107P5  | 17511  | 1063     | 8     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-538J11 | 27414  | 181      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-134G19 | 101595 | 1597     | 11    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-193J5  | 163241 | 90       | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-111H24 | 23275  | 2143     | 18    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-26M17  | 121198 | 558      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-178C12 | 188204 | 633      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-60N17  | 11071  | 2240     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-128J2  | 139994 | 574      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-182G5  | 176384 | 611      | 4     | 6              | 0           | 3           | 0.75            | 0            | 0.5          |
| RP11-24K24  | 50670  | 2295     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-85G7   | 18610  | 1653     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-15E10  | 18596  | 2320     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-227F7  | 131013 | 1177     | 8     | 3              | 1           | 0           | 0.38            | 0.33         | 0            |
| CTB-124G9   | 67226  | 2100     | 17    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| GS1-24B21   | 34607  | 882      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-270O24 | 98701  | 2409     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-72P14  | 48340  | 499      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTB-97E14   | 125500 | 996      | 7     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-96L18  | 2604   | 845      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-121P15 | 71696  | 512      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTC-268N4   | 135520 | 832      | 6     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-11N17  | 28756  | 1491     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-122A4  | 50904  | 1827     | 14    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-63E7   | 121135 | 2418     | 23    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-42M14  | 51088  | 2087     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2103O7  | 41751  | 2351     | 21    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-94D17  | 24608  | 1810     | 14    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-61P1   | 61428  | 1683     | 12    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| CTD-2039C11 | 101746 | 1598     | 11    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-23D3   | 38678  | 1819     | 14    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-70D7   | 33752  | 2386     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2006C10 | 64806  | 672      | 5     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-237F24 | 128710 | 1176     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| CTB-439L11  | 76832  | 2111     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-143M4  | 50701  | 2084     | 17    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS1-213H12  | 26218  | 872      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-142O24  | 6452   | 2037     | 17    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-73F15  | 29255  | 2054     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-204M16 | 23223  | 1072     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-28G16  | 90747  | 1863     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-259N3  | 48483  | 1974     | 16    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-233M1  | 85481  | 1589     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-231J7  | 158730 | 595      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-151M19 | 67365  | 1993     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-6E9    | 171540 | 605      | 4     | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-97N16  | 51325  | 1674     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-162I18 | 83608  | 2012     | 16    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-113M18 | 29798  | 1494     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-119J23 | 113916 | 1731     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| GS-385N22   | 58940  | 2164     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-160P21 | 92658  | 1865     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2013D15 | 10783  | 2238     | 20    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-81G12  | 128754 | 1735     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-253O10 | 75323  | 2004     | 16    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-112B7  | 44081  | 901      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-82L8   | 145376 | 582      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-238L4  | 93287  | 1867     | 14    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-160L16 | 22543  | 869      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-36K8   | 90433  | 540      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-118K23 | 58226  | 2093     | 17    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-78A18  | 178633 | 613      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-115G23 | 34955  | 883      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-165H12 | 99314  | 1713     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-84J3   | 77643  | 2113     | 17    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| CTD-2051E21 | 170738 | 841      | 6     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTB-25O22   | 35007  | 2192     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-252N11 | 33563  | 2060     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2039F11 | 115990 | 987      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-118C24 | 25331  | 472      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-30M20  | 64139  | 2398     | 23    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-143A3  | 18245  | 2319     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-115O16 | 94193  | 544      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-155A5  | 129432 | 2422     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-10D18  | 51182  | 2296     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2022D20 | 99789  | 1402     | 10    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| PAC 191P24  | 91000  | 2020     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTB-34H15   | 65199  | 1921     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-274F14 | 35530  | 1093     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-481C4  | 49714  | 2083     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2084O7  | 47790  | 209      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-284J3  | 40661  | 1101     | 8     | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP1-82O2    | 127    | 2216     | 20    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| CTD-2078H8  | 88516  | 537      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-5K13   | 114258 | 410      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2096I16 | 160213 | 89       | 1     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-327F6  | 8886   | 155      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| CTD-2162L15 | 33636  | 2345     | 21    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-229G6  | 150128 | 428      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| CTB-35K18   | 48161  | 379      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-218N6  | 68478  | 228      | 2     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-148D23 | 174687 | 441      | 3     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| CTB-159E10  | 123197 | 560      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-85B19  | 120809 | 260      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-231F3  | 124948 | 827      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-816P15 | 93773  | 1592     | 11    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-132N24 | 120745 | 259      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-3D4    | 31731  | 1888     | 15    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-51B4   | 6069   | 5        | 1     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| CTD-2048F17 | 8396   | 2130     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-271E2  | 13853  | 361      | 3     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-246O4  | 82663  | 58       | 1     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-748M14 | 43675  | 2150     | 18    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-6L19   | 167513 | 600      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-29M22  | 119505 | 80       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2075J8  | 2795   | 2035     | 17    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-119B15 | 35888  | 195      | 2     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-87I21  | 22771  | 1880     | 15    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-24C23  | 118768 | 1162     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-45M3   | 27502  | 182      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-33F6   | 102471 | 1601     | 11    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-28D10  | 164792 | 92       | 1     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-19F14  | 28036  | 2144     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-100E15 | 124058 | 561      | 4     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-262I1  | 187703 | 631      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-287E11 | 11519  | 2241     | 20    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-22O8   | 141249 | 575      | 4     | 8              | 3           | 3           | 1               | 0.38         | 0.38         |
| RP11-272N13 | 172999 | 606      | 4     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-15M15  | 52394  | 2298     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-88M8   | 50918  | 1672     | 12    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-165B11 | 12088  | 1961     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-128P9  | 133449 | 1181     | 8     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| CTB-292L7   | 50764  | 2085     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-185C18  | 116565 | 988      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-107C19 | 47333  | 2394     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-121C2  | 47679  | 495      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| GS1-165K6   | 16990  | 859      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-234N20 | 2842   | 847      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-117B11 | 73488  | 513      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS-490C21   | 25249  | 1655     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-18B9   | 40253  | 1516     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-109D12 | 25116  | 1811     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-130N6  | 147086 | 2430     | 23    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-52B5   | 65427  | 2099     | 17    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2188N19 | 31094  | 2384     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-91K19  | 30071  | 1815     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2080I19 | 68483  | 1558     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-26M6   | 33325  | 1817     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-7D23   | 89514  | 2019     | 16    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTD-2202A14 | 149773 | 722      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-238H10 | 98877  | 1149     | 8     | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| CTB-120N12  | 75104  | 2110     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-128J1  | 77897  | 2114     | 17    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| GS1-54J22   | 6993   | 854      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTB-339E12  | 2704   | 2029     | 17    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-61B16  | 624    | 2023     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-172D2  | 55737  | 1119     | 8     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-14C21  | 62633  | 1839     | 14    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP11-148M3  | 50758  | 1977     | 16    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-57F14  | 5371   | 1455     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-27H11  | 160183 | 597      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-84C4   | 68111  | 1994     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-199O10 | 169422 | 602      | 4     | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-100P18 | 30116  | 1659     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-254F19 | 84579  | 2014     | 16    | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-128F16 | 36016  | 1509     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-132H4  | 52480  | 1676     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| GS-249B10   | 114548 | 77       | 1     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-111F22 | 97866  | 1870     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2042A23 | 40496  | 2269     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-78D24  | 127116 | 1734     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-61L1   | 78534  | 2008     | 16    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-109N2  | 45896  | 906      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone             | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-33C6         | 145376 | 581      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-182D6        | 65448  | 1844     | 14    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-87M15        | 36505  | 887      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-132F20       | 90591  | 541      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-131C4        | 50764  | 2086     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-171G12       | 181898 | 616      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-15M23        | 40864  | 896      | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-166E4        | 91954  | 1703     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-61B20        | 7041   | 2039     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2029L20       | 67145  | 1235     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| DMPC-HFF#1-1210D3 | 21883  | 2357     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-234J24       | 45775  | 2077     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2051J11       | 27543  | 22       | 1     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-119N7        | 25835  | 473      | 4     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-204D21       | 67136  | 2401     | 23    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-32A2         | 29801  | 2334     | 21    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-85110        | 100687 | 549      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-112H23       | 135853 | 2426     | 23    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-55D2         | 53186  | 2301     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2057C13       | 101295 | 1716     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| GS1-68F18         | 0      | 2021     | 17    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| CTD-2169M23       | 61564  | 1124     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-237M13       | 35635  | 1094     | 8     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| GS1-50C4          | 82000  | 2119     | 17    | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| CTD-2018D13       | 70649  | 232      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-48D21        | 40481  | 1100     | 8     | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| CTC-334G22        | 10613  | 2237     | 20    | 8              | 2           | 3           | 1               | 0.25         | 0.38         |
| RP11-93P6         | 111783 | 819      | 6     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-165B13       | 118923 | 413      | 3     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| CTD-2235K13       | 220942 | 134      | 1     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-4K20         | 11074  | 158      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2231K11       | 33597  | 2344     | 21    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-145F16       | 151347 | 429      | 3     | 5              | 2           | 1           | 0.62            | 0.4          | 0.2          |
| CTD-2172D17       | 185406 | 447      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-474G23       | 68282  | 227      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-118F4        | 180749 | 445      | 3     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| CTD-2100H15       | 186031 | 626      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-17O6         | 122394 | 264      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-107M3        | 128717 | 829      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-817J15       | 101955 | 1599     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-438O12       | 121008 | 261      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-2D17         | 40344  | 1895     | 15    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-60J11        | 6817   | 6        | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-729G3        | 46857  | 2154     | 18    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-255O19       | 15780  | 363      | 3     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-211D4        | 85495  | 61       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-358D14       | 62767  | 2314     | 20    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-140M13       | 179291 | 614      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-105E14       | 143223 | 81       | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2018N9        | 23130  | 1883     | 15    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-173C1        | 39192  | 201      | 2     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-171C8        | 22904  | 1882     | 15    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| GS1-261I1         | 147000 | 1192     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-373D23       | 28535  | 183      | 2     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-179B7        | 103836 | 1602     | 11    | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-167M6        | 164980 | 93       | 1     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-63N12        | 30825  | 2145     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-107E21       | 125135 | 565      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-243D3        | 185542 | 623      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-238I2        | 13575  | 2243     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-218I24       | 138350 | 572      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-110O14       | 174952 | 609      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-212M6        | 53691  | 2303     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-89E9         | 97222  | 1712     | 12    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-34J1         | 133888 | 2424     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-237C24       | 4485   | 458      | 4     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTB-339E12        | 2704   | 2029     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS1-124N22        | 9746   | 856      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-51L20        | 70314  | 2404     | 23    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-7J22         | 57177  | 508      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-87A9          | 99973  | 964      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-183O1        | 6247   | 853      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-155P6        | 74424  | 514      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone           | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-----------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| GS-236D3        | 49885  | 2293     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-23E5       | 17865  | 1477     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-94K16      | 47069  | 1822     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-143E20     | 7085   | 2374     | 23    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RP11-46E14      | 78402  | 2115     | 17    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| CTD-2033A1      | 21572  | 2381     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-125A5      | 27502  | 1812     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2012D15     | 104333 | 1603     | 11    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-141J7      | 32326  | 1224     | 9     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-122N14     | 30879  | 2383     | 23    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2141C20     | 133558 | 709      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-131D12     | 99202  | 1152     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| CTB-462L7       | 53757  | 2088     | 17    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-135N5      | 2572   | 2028     | 17    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| CTB-162P22      | 137608 | 1014     | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RMC17P041       | 15334  | 2049     | 17    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-76G4       | 73781  | 2107     | 17    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-105K5      | 54464  | 1115     | 8     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-16O4       | 89217  | 1860     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-61I15      | 55043  | 1978     | 16    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-29O22      | 46591  | 1529     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-136D2      | 158297 | 594      | 4     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-12H11      | 76938  | 2006     | 16    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-119J20     | 173700 | 607      | 4     | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-101H10     | 52180  | 1675     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-118F19     | 85348  | 2017     | 16    | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-147L8      | 30640  | 1496     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-138G1      | 108239 | 1727     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTC-298G6       | 4279   | 1644     | 12    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-92H20      | 73302  | 1850     | 14    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| CTD-2238P18     | 46964  | 2284     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-74M9       | 4177   | 1642     | 12    | 7              | 1           | 3           | 0.88            | 0.14         | 0.43         |
| RP11-20A10      | 50420  | 1976     | 16    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-126K7      | 45830  | 905      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-134L22     | 147169 | 584      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-238I24     | 102369 | 1877     | 14    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-100C21     | 42422  | 898      | 7     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-27C19      | 124748 | 564      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-100L12     | 28652  | 2053     | 17    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-115H17     | 27020  | 2330     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-75O22      | 36961  | 889      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-166G2      | 5615   | 1646     | 12    | 3              | 0           | 3           | 0.38            | 0            | 1            |
| RP11-65C22      | 71251  | 2103     | 17    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2006L14     | 5893   | 1200     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| DMPC-HFF#1-71E5 | 128710 | 1175     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-61B11      | 74959  | 2109     | 17    | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| CTD-2149J10     | 212450 | 331      | 2     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-239C17     | 26142  | 474      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-183F2      | 68315  | 2403     | 23    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-74D19      | 28597  | 2331     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-144B4      | 98738  | 547      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-221G13     | 148175 | 2432     | 23    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-94A18      | 59444  | 2312     | 20    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| CTD-2280C3      | 127951 | 1303     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| GS-64G5         | 2494   | 2027     | 17    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTD-2039F9      | 3813   | 1452     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-210F15     | 36452  | 1095     | 8     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| GS1-74G18       | 0      | 2120     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2104P11     | 75251  | 235      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-282J24     | 41663  | 1102     | 8     | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP1-81F12       | 64000  | 2315     | 20    | 8              | 3           | 2           | 1               | 0.38         | 0.25         |
| CTD-2199G5      | 53680  | 385      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-233L3      | 119309 | 414      | 3     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| CTD-2215K6      | 37403  | 197      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-295J19     | 11313  | 160      | 2     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2183N21     | 35114  | 2347     | 21    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-203L15     | 161883 | 433      | 3     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| CTD-2121C12     | 130591 | 419      | 3     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-68A1       | 67703  | 226      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-67E18      | 189757 | 449      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2113P14     | 68479  | 678      | 5     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-393J17     | 120112 | 258      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-139O22     | 131601 | 830      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-750P5  | 102182 | 1600     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-17N4   | 119928 | 257      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-80G8   | 51358  | 1902     | 15    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-199O1  | 10284  | 8        | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-782H1  | 18071  | 2186     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-103N21 | 29867  | 370      | 3     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-125P20 | 87787  | 62       | 1     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-227M19 | 3995   | 641      | 5     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-71L20  | 148497 | 84       | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2032A10 | 46419  | 1897     | 15    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-32C8   | 38463  | 199      | 2     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-15C9   | 31364  | 1887     | 15    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| CTB-41L13   | 222    | 1193     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-328L16 | 29382  | 186      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-51M23  | 104357 | 1604     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-171H24 | 165442 | 95       | 1     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-19L3   | 42181  | 2149     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-18F11  | 120417 | 556      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-159A22 | 187142 | 630      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-65G18  | 15319  | 2244     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-69F21  | 97131  | 1274     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-177L7  | 165405 | 599      | 4     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-1E23   | 58392  | 2311     | 20    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-89F16  | 90601  | 1701     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-142M16 | 147866 | 2431     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-17I9   | 9756   | 463      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTB-187M2   | 19537  | 2052     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS1-85G10   | 39895  | 893      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-80K1   | 104807 | 2414     | 23    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-20K4   | 66929  | 1554     | 11    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| CTB-148D3   | 24468  | 870      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-2K20   | 5865   | 851      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-69P19  | 75204  | 517      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS-251P4    | 97236  | 1950     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-33H21  | 9094   | 1461     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-137D17 | 49923  | 1824     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-26N16  | 874    | 2025     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2002E24 | 36500  | 2387     | 23    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-152G22 | 19227  | 1802     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-56J24  | 31959  | 1662     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2029K8  | 59011  | 1539     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-13C11  | 122569 | 1300     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-287E8  | 37039  | 2388     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2086L13 | 112155 | 552      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-229L23 | 125521 | 1168     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| CTB-112F7   | 69205  | 2101     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-110H20 | 47395  | 2080     | 17    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| GS1-203O3   | 151001 | 1028     | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RMC7P069    | 19116  | 2051     | 17    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-84E24  | 70598  | 2102     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-111A6  | 103890 | 1793     | 13    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-32D22  | 124066 | 562      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-40D5   | 135249 | 571      | 4     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-121K16 | 72184  | 805      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-52B15  | 89723  | 809      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-14I4   | 100506 | 814      | 6     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-4H24   | 38625  | 2367     | 22    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-49M22  | 43367  | 2369     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-53C1   | 139759 | 573      | 4     | 1              | 0           | 1           | 0.12            | 0            | 1            |
| RP11-26D15  | 141309 | 576      | 4     | 4              | 0           | 3           | 0.5             | 0            | 0.75         |
| RP11-210F12 | 147357 | 585      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-25E13  | 104516 | 1794     | 13    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RMC20B4130  | 52854  | 2299     | 20    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RMC20B4087  | 53455  | 2302     | 20    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RMCXP002    | 99377  | 2410     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-1L12   | 27041  | 1490     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-77M17  | 57148  | 1537     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-9K14   | 65048  | 1550     | 11    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-51M9   | 72013  | 1569     | 11    | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-187A8  | 36560  | 1513     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-114G6  | 40341  | 1517     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-34F8   | 40887  | 1518     | 11    | 1              | 0           | 0           | 0.12            | 0            | 0            |
| RP11-211J11 | 51011  | 1762     | 13    | 7              | 0           | 4           | 0.88            | 0            | 0.57         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-165C10 | 75067  | 1575     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-119C13 | 75624  | 1576     | 11    | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-7H7    | 78025  | 1581     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-102K15 | 83075  | 1584     | 11    | 4              | 2           | 0           | 0.5             | 0.5          | 0            |
| RP11-119M23 | 85395  | 1588     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-131C11 | 85003  | 1587     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-163O18 | 92954  | 1591     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-183A20 | 106617 | 1795     | 13    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-61I17  | 107748 | 1796     | 13    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-230A15 | 109071 | 1797     | 13    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-11L13  | 11804  | 1327     | 10    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-66F24  | 22666  | 1341     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-42H6   | 111671 | 551      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-217E8  | 93920  | 1593     | 11    | 5              | 2           | 1           | 0.62            | 0.4          | 0.2          |
| RP11-253I17 | 29077  | 1086     | 8     | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-5J20   | 29319  | 1087     | 8     | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| RP11-287N19 | 30494  | 1088     | 8     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-57I3   | 32470  | 1090     | 8     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| RP11-122D17 | 32637  | 1091     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-265K5  | 38125  | 1096     | 8     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-100B16 | 38257  | 1097     | 8     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-262I23 | 39745  | 1098     | 8     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-73M19  | 43001  | 1103     | 8     | 4              | 1           | 1           | 0.5             | 0.25         | 0.25         |
| RP11-12L15  | 47823  | 1104     | 8     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| RP11-258C1  | 99843  | 1595     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-268N2  | 49118  | 1105     | 8     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-83O14  | 53073  | 1109     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-175H20 | 53297  | 1111     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-221P7  | 53605  | 1113     | 8     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-105K5  | 54464  | 1115     | 8     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-99M6   | 55552  | 1117     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-172D2  | 55737  | 1119     | 8     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-213K11 | 56973  | 1121     | 8     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-258B14 | 61151  | 1123     | 8     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-252M13 | 64362  | 1125     | 8     | 7              | 3           | 1           | 0.88            | 0.43         | 0.14         |
| RP11-5G24   | 101182 | 1596     | 11    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-92M10  | 65694  | 1126     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-282D10 | 67298  | 1127     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-212P10 | 67392  | 1128     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-271O1  | 67480  | 1129     | 8     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-107F3  | 74222  | 1131     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-69N24  | 106039 | 405      | 3     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-166C10 | 109808 | 407      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-276O11 | 105295 | 1606     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-85F4   | 105059 | 1605     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-42L18  | 107455 | 1607     | 11    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-2F21   | 109450 | 1610     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-262J9  | 111244 | 1612     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-277I21 | 28963  | 1085     | 8     | 5              | 0           | 4           | 0.62            | 0            | 0.8          |
| RP11-219P10 | 137444 | 421      | 3     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-235B24 | 50120  | 38       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-195G13 | 53698  | 39       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-149K24 | 56978  | 41       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-8F24   | 60652  | 44       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-246N19 | 63825  | 49       | 1     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-265C4  | 63708  | 48       | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-80G24  | 77139  | 53       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-267M21 | 79392  | 55       | 1     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-78E18  | 82691  | 59       | 1     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-260A24 | 110123 | 71       | 1     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-162J10 | 138742 | 422      | 3     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-150K20 | 110631 | 73       | 1     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-82A16  | 111807 | 74       | 1     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-72M14  | 112456 | 75       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-254K1  | 114325 | 76       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-137M19 | 156282 | 85       | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-97G24  | 157693 | 86       | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-260G23 | 159634 | 88       | 1     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-154A22 | 192545 | 109      | 1     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-249C10 | 197403 | 110      | 1     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-150L7  | 198434 | 111      | 1     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-166D18 | 140781 | 424      | 3     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-57I17  | 204829 | 119      | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-45F21  | 205468 | 120      | 1     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-123O6  | 208484 | 123      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-130I13 | 236590 | 139      | 1     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-210F8  | 238647 | 140      | 1     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-188A4  | 239937 | 143      | 1     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-44C14  | 114590 | 1295     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-196F13 | 173518 | 439      | 3     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-28L24  | 112447 | 821      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-75C8   | 112006 | 820      | 6     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-24F12  | 115327 | 824      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-43B19  | 160895 | 839      | 6     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-82D16  | 2009   | 2        | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-41K9   | 85079  | 1254     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-32D4   | 11586  | 1204     | 9     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-22C13  | 80767  | 1249     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-20E13  | 97287  | 1275     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-20B20  | 83093  | 1252     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTC-264L4   | 114412 | 981      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTB-162H9   | 127287 | 998      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTB-102E19  | 87477  | 950      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| GS1-124K10  | 31485  | 877      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTB-23D20   | 27651  | 873      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| GS1-183H7   | 8628   | 855      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-40A7   | 129693 | 1306     | 9     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| CTB-79L9    | 92211  | 956      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-174H8   | 32989  | 880      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTC-325E15  | 67608  | 926      | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| GS1-119B11  | 139192 | 1017     | 7     | 5              | 1           | 1           | 0.62            | 0.2          | 0.2          |
| GS1-207L18  | 152990 | 1029     | 7     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RMC07P028   | 143474 | 1021     | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-96I11  | 12905  | 2138     | 18    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-16A21  | 12587  | 2137     | 18    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-59E12  | 19622  | 2142     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-26H9   | 6701   | 2232     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-39L9   | 98274  | 1280     | 9     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-32O9   | 8790   | 2233     | 20    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-40J24  | 11037  | 2239     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-75C17  | 45625  | 2280     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-109C3  | 46846  | 2283     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-5P14   | 50072  | 2294     | 20    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-118C13 | 32970  | 1225     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-102F20 | 116348 | 1298     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-39J22  | 106020 | 1284     | 9     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-39I6   | 36175  | 1231     | 9     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-37F22  | 34971  | 1229     | 9     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-34J23  | 93385  | 1268     | 9     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-33O15  | 22823  | 1216     | 9     | 5              | 2           | 1           | 0.62            | 0.4          | 0.2          |
| RP11-32M4   | 105808 | 1283     | 9     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-106N7  | 96225  | 1271     | 9     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-154M9  | 36204  | 1232     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-56C1   | 75457  | 1245     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-235F7  | 27537  | 1220     | 9     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-165H19 | 34590  | 1228     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-264O11 | 10578  | 1203     | 9     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-223A21 | 92564  | 1264     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-229N14 | 115037 | 1296     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-21H16  | 135878 | 1186     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-122H7  | 138273 | 1189     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-4B2    | 97957  | 1277     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-88J16  | 86475  | 1256     | 9     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-142P5  | 126543 | 1171     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-150N13 | 126333 | 1169     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-131O16 | 99005  | 1151     | 8     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-94M13  | 132829 | 1178     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-158G1  | 133112 | 1180     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-184M21 | 133963 | 1182     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-194B9  | 28104  | 475      | 4     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-210B2  | 28680  | 476      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-109P3  | 48340  | 498      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-180G13 | 30741  | 481      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-81P13  | 108423 | 1285     | 9     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-176I4  | 33162  | 482      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-85B10  | 35527  | 483      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-188C10 | 52638  | 1108     | 8     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-221P7  | 53605  | 1113     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-99M6   | 55552  | 1117     | 8     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-149G12 | 52199  | 1107     | 8     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-34C20  | 11085  | 464      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-74F15  | 81643  | 1251     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-80F13  | 105543 | 1282     | 9     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-189E11 | 135163 | 1184     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-19O14  | 68683  | 1238     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-150L1  | 115789 | 1297     | 9     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-128O12 | 91550  | 1263     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-171P21 | 15196  | 465      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-105H21 | 54178  | 1832     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-105F9  | 32327  | 1816     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-221K16 | 52877  | 1829     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-189N14 | 22529  | 1806     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-172G1  | 53522  | 1830     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-170D9  | 23859  | 1809     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-256C2  | 22529  | 1807     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-189H22 | 39841  | 1820     | 14    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-262M8  | 50687  | 1826     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-29B7   | 53522  | 1831     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-288G5  | 37359  | 1818     | 14    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-12P7   | 52008  | 1828     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-10P7   | 54889  | 1833     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-21P8   | 55088  | 1834     | 14    | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-2K1    | 29790  | 1814     | 14    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-14O20  | 19152  | 1801     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-52O23  | 46240  | 1821     | 14    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-68M15  | 21467  | 1805     | 14    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-70F9   | 21199  | 1804     | 14    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-48L1   | 29365  | 1813     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-84D12  | 19455  | 1803     | 14    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-234L24 | 67755  | 510      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-82A8   | 50570  | 1825     | 14    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-142O24  | 6452   | 2037     | 17    | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| CTB-194B18  | 10066  | 2046     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| CTB-163O5   | 33343  | 2057     | 17    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP5-1137E3  | 43198  | 2073     | 17    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP5-1071I14 | 48029  | 2081     | 17    | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| RP5-29G21   | 31435  | 2056     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-111K19 | 68456  | 511      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-144I19 | 76597  | 523      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-105F22 | 77400  | 524      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-17P19  | 79324  | 525      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-221M10 | 80786  | 526      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-90K14  | 49846  | 1823     | 14    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP5-32P19   | 48315  | 2082     | 17    | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-11P20  | 128976 | 567      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-14N24  | 131151 | 568      | 4     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-130O10 | 87738  | 535      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-131O10 | 83433  | 529      | 4     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-7G22   | 84625  | 531      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-36G19  | 85428  | 532      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-31I17  | 86767  | 533      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17P8   | 89864  | 539      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-62A6   | 122776 | 1301     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-62H18  | 4576   | 1197     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP5-859O20  | 9012   | 2045     | 17    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-65B23  | 85712  | 1255     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-61I3   | 37608  | 1233     | 9     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-57O13  | 108906 | 1286     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-18F1   | 99970  | 1714     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-1K22   | 129550 | 1737     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-24N12  | 2978   | 1641     | 12    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-25K5   | 48129  | 1669     | 12    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-29G23  | 43909  | 1664     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-31A19  | 93918  | 1707     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-38F11  | 32989  | 1663     | 12    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| CTB-11O23   | 2896   | 2036     | 17    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-39G24  | 57375  | 1680     | 12    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-32K17  | 50298  | 1671     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-44K16  | 62866  | 1840     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-46L17  | 77551  | 1855     | 14    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-5J6    | 66706  | 1691     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-47P10  | 145551 | 583      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-122I3  | 145023 | 580      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP5-1029F21 | 417    | 2022     | 17    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-120B2  | 87369  | 534      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-6K22   | 120384 | 555      | 4     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-149A7  | 133904 | 569      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-94J9   | 134574 | 570      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-52O3   | 128592 | 566      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-84M15  | 155826 | 592      | 4     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-55P9   | 25426  | 1218     | 9     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-83G24  | 103739 | 1721     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-80F23  | 94298  | 1868     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-84G6   | 86618  | 1856     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-282G15 | 94498  | 1709     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-252C8  | 102582 | 1717     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-233G1  | 14833  | 1650     | 12    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-272L6  | 5221   | 1645     | 12    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-276L24 | 59176  | 1681     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-270J9  | 47439  | 1666     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-101A21 | 152942 | 589      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| GS1-35C5    | 69638  | 930      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTB-22K14   | 108069 | 976      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| GS1-6E1     | 53465  | 915      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-215G13 | 93273  | 1706     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-220L3  | 63254  | 1686     | 12    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-230I13 | 78276  | 1697     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| GS1-220D8   | 46025  | 907      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTB-111H21  | 29730  | 876      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-180P12  | 135996 | 1008     | 7     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| CTB-102E19  | 87477  | 950      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-93I2   | 156061 | 593      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-202O8   | 49775  | 911      | 7     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| GS-32I19    | 55630  | 2308     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| GS-127C11   | 16201  | 1963     | 16    | 8              | 0           | 0           | 1               | 0            | 0            |
| GS-93M10    | 86745  | 949      | 7     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-160D13 | 6528   | 1955     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS-619B4    | 55080  | 505      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| GS-400H17   | 47659  | 1667     | 12    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-180J5  | 148000 | 586      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-79E2   | 143222 | 578      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-52I10  | 31664  | 1223     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-44O3   | 89667  | 1262     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-46E19  | 113030 | 1294     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-50C21  | 10432  | 1202     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| GS-246M20   | 55015  | 917      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| GS-8P19     | 714    | 2122     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS-561N1    | 56427  | 1679     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| GS-265E19   | 38919  | 2067     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RMC01P057   | 27560  | 23       | 1     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP1-97B16   | 180273 | 444      | 3     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| GS-415O24   | 117881 | 1620     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-246G22 | 81509  | 2407     | 23    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-77D22  | 91772  | 2408     | 23    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| GS-59B4     | 152455 | 836      | 6     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP5-1097P11 | 65810  | 2400     | 23    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| GS1-8A1     | 44253  | 902      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTB-36F16   | 69400  | 1565     | 11    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| GS-137C7    | 524    | 1449     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-69E3   | 94706  | 1710     | 12    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-83I2   | 87070  | 1857     | 14    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-64J22  | 25789  | 1656     | 12    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-287D11 | 108043 | 1726     | 12    | 3              | 3           | 0           | 0.38            | 1            | 0            |
| GS1-124N22  | 9746   | 856      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-140K16 | 84216  | 2013     | 16    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-284G2  | 78534  | 2007     | 16    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-52E21  | 69052  | 1998     | 16    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| GS1-199H20  | 131260 | 1004     | 7     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-109D4  | 18598  | 1965     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-48I18  | 49514  | 1975     | 16    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-283M20 | 18469  | 1964     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-186E3  | 20266  | 1966     | 16    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-18H23  | 31429  | 1972     | 16    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-49M6   | 11608  | 1960     | 16    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTC-232O9   | 43022  | 900      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTB-66D11   | 104127 | 969      | 7     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTB-168O22  | 18557  | 864      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTC-329F6   | 2141   | 844      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| GS1-98-L2   | 12600  | 359      | 3     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-204E18 | 31616  | 1973     | 16    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-192K24 | 89681  | 1861     | 14    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-285P21 | 76535  | 1854     | 14    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-2K15   | 16360  | 2377     | 23    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-180F16 | 18845  | 2379     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-46A23  | 30476  | 2382     | 23    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-128B23 | 18196  | 2378     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-59A12  | 84665  | 2015     | 16    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-122P17 | 85736  | 2018     | 16    | 8              | 1           | 5           | 1               | 0.12         | 0.62         |
| RP11-42F12  | 14414  | 2047     | 17    | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-52N13  | 43194  | 2072     | 17    | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-146J7  | 25710  | 1970     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-41E12  | 71815  | 2104     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-160F4  | 79067  | 2117     | 17    | 3              | 2           | 0           | 0.38            | 0.67         | 0            |
| RP11-145C11 | 73659  | 2106     | 17    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-87N6   | 38681  | 2063     | 17    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-58O9   | 38874  | 2066     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-55C13  | 8598   | 2044     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-58O8   | 34027  | 2061     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-165M24 | 80673  | 2118     | 17    | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| RP11-266I24 | 41355  | 2070     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-122D8  | 178299 | 612      | 4     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-132M21 | 57967  | 1982     | 16    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-125M9  | 183250 | 618      | 4     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-244K2  | 183090 | 617      | 4     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-51O4   | 15593  | 2245     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-138A15 | 36736  | 2262     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-134I8  | 31323  | 2257     | 20    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-171I8  | 48472  | 1533     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-222G13 | 48472  | 1534     | 11    | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-5A19   | 66841  | 1992     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-3A9    | 66424  | 1991     | 16    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-109J21 | 56005  | 1980     | 16    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-246M14 | 60574  | 1985     | 16    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-50C5   | 61469  | 1986     | 16    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-266F13 | 67172  | 1847     | 14    | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-205I14 | 59240  | 1541     | 11    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-31B6   | 14999  | 2316     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-13J15  | 24047  | 2323     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-65I1   | 129120 | 2421     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-223K4  | 101504 | 2413     | 23    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-224D23 | 109768 | 2416     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-24P8   | 41939  | 2391     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-91J20  | 73363  | 2406     | 23    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-147G1  | 63455  | 2397     | 23    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-191P7  | 2948   | 848      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-23D23  | 807    | 843      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-91P18  | 74949  | 1574     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-161C7  | 6187   | 852      | 7     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-128J9  | 9820   | 858      | 7     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-123E5  | 17301  | 860      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-276A17 | 31408  | 2339     | 21    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-125H1  | 31281  | 2337     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP4-763A4   | 129037 | 1304     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP5-1081P3  | 57550  | 2092     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RMC12P001   | 56152  | 1678     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP5-1073F15 | 58499  | 2094     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP1-128I8   | 69242  | 1561     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-203L17 | 186965 | 629      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-262B7  | 11739  | 1056     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| CTD-2037D17 | 30769  | 1746     | 13    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2173J2  | 46814  | 1759     | 13    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTD-2272E1  | 89204  | 1945     | 15    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| CTD-2170E19 | 27290  | 1219     | 9     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2058B1  | 4191   | 1643     | 12    | 8              | 2           | 3           | 1               | 0.25         | 0.38         |
| CTD-2042H22 | 54782  | 1677     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-256M13 | 185847 | 625      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-267E24 | 186282 | 627      | 4     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-228F3  | 186349 | 628      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-213A19 | 187817 | 632      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-237D3  | 188988 | 634      | 4     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| CTD-2024C11 | 113603 | 253      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2093I24 | 21883  | 2358     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2094C6  | 38791  | 2064     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2222B22 | 116614 | 1618     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2040C2  | 14563  | 649      | 5     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| CTD-2079J2  | 108552 | 693      | 5     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| RP11-15L23  | 50725  | 913      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-173P9  | 17341  | 861      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17H7   | 27914  | 874      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-66O14  | 25979  | 871      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-243C6  | 22456  | 868      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2035K18 | 12600  | 360      | 3     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-138E20 | 36331  | 885      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-46J20  | 106748 | 973      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-148L14 | 34632  | 1506     | 11    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-222J5  | 5349   | 1454     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-193O9  | 31328  | 1498     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-230G20 | 25057  | 1487     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-96H21  | 30853  | 2335     | 21    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-5N20   | 31577  | 2341     | 21    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-54F16  | 32693  | 2343     | 21    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2118F18 | 36702  | 782      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2132L9  | 38010  | 373      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2018P8  | 20510  | 768      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2175D15 | 59791  | 394      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2055G11 | 113341 | 1730     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2035H5  | 110302 | 1728     | 12    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2003I23 | 110804 | 1729     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2285J6  | 4543   | 2227     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2055A23 | 63533  | 1843     | 14    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| CTD-2125H12 | 49494  | 2290     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2026B15 | 46209  | 2281     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2035F24 | 26175  | 2324     | 21    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| CTD-2009O18 | 38827  | 2065     | 17    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2128D14 | 21392  | 15       | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2102L4  | 5091   | 2229     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTD-2111G2  | 3781   | 2225     | 20    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-178P2  | 34996  | 884      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-128O3  | 33387  | 881      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-95N10  | 32643  | 879      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-22M18  | 84156  | 947      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-193J17 | 71146  | 931      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-137E8  | 73357  | 936      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-35P20  | 71432  | 933      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-219N12 | 79459  | 940      | 7     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-56C16  | 77697  | 938      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-35H4   | 77250  | 937      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| CTD-2032H1  | 3292   | 1953     | 16    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-96O16  | 68989  | 929      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-115O3  | 80121  | 943      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-86P18  | 107908 | 975      | 7     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-77E2   | 107079 | 974      | 7     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-32H11  | 128242 | 1438     | 10    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-92J13  | 111200 | 978      | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-88K4   | 136029 | 1009     | 7     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-29B3   | 136916 | 1012     | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-22G20  | 136600 | 1010     | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-172L23 | 138472 | 1016     | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-41F23  | 67265  | 925      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-269N18 | 137683 | 1015     | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-118J20 | 132809 | 1005     | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-140I14 | 134505 | 1007     | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-137O4  | 137509 | 1013     | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-148F17 | 136629 | 1011     | 7     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-188A12 | 142994 | 1020     | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-126A20 | 82609  | 945      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-170H15 | 68627  | 928      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-45N18  | 61790  | 921      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |

Table W1. (continued)

| Clone            | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|------------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-97P11       | 55206  | 918      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-114E12      | 67811  | 927      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-251I15      | 55349  | 920      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-90O18       | 63546  | 922      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-46O13       | 87990  | 953      | 7     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-35B6        | 128500 | 1000     | 7     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-38P11       | 129517 | 1003     | 7     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-66F23       | 127910 | 999      | 7     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-48O1        | 121395 | 994      | 7     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-3L10        | 120592 | 992      | 7     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-19G12       | 129047 | 1002     | 7     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-93J6        | 31815  | 878      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-112P4       | 121089 | 993      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-9C22        | 127170 | 997      | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2107N14      | 48741  | 2395     | 23    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-126B8       | 92418  | 957      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2006G2       | 99773  | 2412     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2047N18      | 145658 | 2427     | 23    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| CTD-2015J18      | 127258 | 2420     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2051F22      | 42878  | 2392     | 23    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| CTD-2082H4       | 146779 | 2429     | 23    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTB-262I19       | 58714  | 2096     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-570D13       | 61145  | 2097     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTB-305D20       | 45331  | 2076     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTB-244K7        | 65039  | 2098     | 17    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTB-209F23       | 78502  | 2116     | 17    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-72J24       | 104174 | 970      | 7     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| GS1-232B23       | 0      | 1        | 1     | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| GS1-167K11       | 247000 | 144      | 1     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| GS1-8L3          | 0      | 145      | 2     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| CTB-172I13       | 244000 | 350      | 2     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTB-228K22       | 0      | 351      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-110J24       | 10159  | 357      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| GS1-56H22        | 200000 | 453      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-10D8        | 98035  | 963      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-127F3       | 94735  | 960      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-32C15       | 95227  | 961      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-61C18       | 106305 | 971      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-213E22      | 100265 | 965      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-49N15       | 92475  | 958      | 7     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| GS1-118B13       | 0      | 454      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP1-164D18       | 188    | 842      | 7     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP1-8L24         | 115449 | 984      | 7     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP1-268L15       | 115627 | 985      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| GS1-23B11        | 0      | 1310     | 10    | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-2044M21     | 89288  | 1394     | 10    | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| GS1-261B16       | 136000 | 1446     | 10    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-222O19       | 64314  | 1547     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-964M3       | 107676 | 1608     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP1-26N8         | 135000 | 1638     | 11    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| GS1-124K20       | 0      | 1639     | 12    | 5              | 1           | 1           | 0.62            | 0.2          | 0.2          |
| GS1-31J3         | 192000 | 635      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP1-221K18       | 131939 | 1738     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP1-58D13        | 46852  | 1760     | 13    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP1-269F22       | 49043  | 1761     | 13    | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP1-01L16        | 114000 | 1800     | 13    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-47P23       | 105131 | 1878     | 14    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| Vysis-SNRPN_176A | 22771  | 1881     | 15    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-135B17      | 46788  | 2353     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP1-15J16        | 15547  | 2354     | 22    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP1-238C15       | 17717  | 2355     | 22    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-223J3        | 28415  | 2360     | 22    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP1-24H17        | 0      | 636      | 5     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| CTA-799F10       | 49211  | 2371     | 22    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-839D20      | 0      | 2372     | 23    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-243M13      | 202081 | 116      | 1     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-104A2       | 207093 | 122      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-111P21      | 45301  | 378      | 3     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-94D19       | 60739  | 396      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTC-317F16       | 112258 | 695      | 5     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP1-98O22        | 137881 | 714      | 5     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP1-240G13       | 182000 | 751      | 5     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| GS1-196I5        | 0      | 752      | 6     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP3-445N2   | 56242  | 800      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP1-57H24   | 170695 | 840      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-95H16  | 125401 | 416      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-72C6   | 7901   | 1322     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-33O2   | 67615  | 1368     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP1-162F2   | 69300  | 1563     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP1-4E16    | 69242  | 1562     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP1-17L4    | 69361  | 1564     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-20H17  | 44017  | 2151     | 18    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-40D15  | 56871  | 2161     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-19I2   | 11734  | 2182     | 19    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-43B2   | 52665  | 2208     | 19    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-87L13  | 60725  | 2213     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-141C22 | 170244 | 436      | 3     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-8P19   | 34528  | 2346     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-62G2   | 34543  | 2362     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RMC20P037   | 36697  | 2261     | 20    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RMC20P055   | 17252  | 2248     | 20    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RMC20P063   | 49884  | 2292     | 20    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RMC20P071   | 54999  | 2307     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RMC20P073   | 56826  | 2310     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RMC20P090   | 30999  | 2256     | 20    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RMC20P099   | 23609  | 2253     | 20    | 7              | 2           | 2           | 0.88            | 0.29         | 0.29         |
| RMC20P107   | 3781   | 2226     | 20    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-20B3   | 3055   | 638      | 5     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RMC20P154   | 38669  | 2264     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RMC20P179   | 62704  | 2313     | 20    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-16J22  | 148461 | 283      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-364H22 | 151847 | 286      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-598C21 | 184023 | 313      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-176L20 | 172629 | 302      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-292A10 | 160175 | 294      | 2     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-67P13  | 32068  | 658      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-73N22  | 117064 | 700      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-275E14 | 82851  | 685      | 5     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-1J24   | 7900   | 757      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-39C2   | 46975  | 792      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-47E20  | 105560 | 816      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-110D15 | 125503 | 1167     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-163F8  | 17487  | 1213     | 9     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-115D10 | 79894  | 1139     | 8     | 5              | 3           | 0           | 0.62            | 0.6          | 0            |
| RP11-257P3  | 82467  | 1145     | 8     | 6              | 4           | 0           | 0.75            | 0.67         | 0            |
| RP11-10G10  | 101112 | 1157     | 8     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| RP11-238H10 | 98877  | 1149     | 8     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| RP11-99I9   | 120373 | 1164     | 8     | 4              | 2           | 0           | 0.5             | 0.5          | 0            |
| RP11-44N11  | 123706 | 1165     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-81I21  | 147908 | 1025     | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-123F4  | 48000  | 909      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-43L19  | 150928 | 1027     | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-65D17  | 127186 | 1172     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-86L18  | 153599 | 1030     | 7     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-58F7   | 156990 | 1032     | 7     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-120J1  | 14333  | 1210     | 9     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-109M15 | 16141  | 1212     | 9     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-106C6  | 147633 | 1024     | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RPC-41C23   | 30082  | 2055     | 17    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RPC-1173I21 | 14461  | 2048     | 17    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RPC-34H11   | 16303  | 2050     | 17    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2060J19 | 307    | 2217     | 20    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2004C12 | 131375 | 707      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-295J19 | 11313  | 160      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-550O23 | 129947 | 270      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-416H1  | 122459 | 265      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-442L5  | 137676 | 275      | 2     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-368K23 | 115271 | 254      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-60M20  | 121920 | 262      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-399B17 | 112961 | 250      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-629A22 | 98500  | 244      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-4K20   | 11074  | 158      | 2     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-456I15 | 73039  | 1571     | 11    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-672A2  | 75993  | 1577     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-342A16 | 83276  | 1586     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-297I3  | 2391   | 146      | 2     | 8              | 2           | 0           | 1               | 0.25         | 0            |

Table W1. (continued)

| Clone        | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|--------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-1B18    | 8710   | 153      | 2     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-467A23  | 135330 | 274      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-541A15  | 31330  | 188      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-414D15  | 23655  | 175      | 2     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-82P15   | 51260  | 210      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-17D23   | 61500  | 217      | 2     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-496P1   | 14257  | 164      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17M8    | 137675 | 1188     | 8     | 7              | 5           | 1           | 0.88            | 0.71         | 0.14         |
| RP11-94M13   | 132829 | 1178     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-527H7   | 66178  | 1552     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-568F15  | 59215  | 1540     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-45B19   | 135479 | 1185     | 8     | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| RP11-224H3   | 144967 | 279      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-642A1   | 141505 | 1190     | 8     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-675B4   | 65634  | 1551     | 11    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-149G19  | 67802  | 1557     | 11    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-495D4   | 126487 | 1170     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-548G17  | 64470  | 1548     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-660B16  | 62970  | 1545     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-121P22  | 81666  | 527      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-69J7    | 231332 | 342      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-311C14  | 230891 | 341      | 2     | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-504L12  | 217013 | 333      | 2     | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-498O20  | 122959 | 267      | 2     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-92G23   | 222716 | 337      | 2     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| CTB-1O12     | 60467  | 395      | 3     | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP1-141L3    | 149531 | 721      | 5     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-3E2     | 103711 | 1720     | 12    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-18B8    | 63731  | 1688     | 12    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-284P8   | 125569 | 1733     | 12    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-294I11  | 126204 | 269      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-443B20  | 24995  | 177      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-32C8    | 38463  | 199      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-62F14   | 31036  | 187      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-560C7   | 23120  | 173      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-299C5   | 42455  | 202      | 2     | 2              | 0           | 1           | 0.25            | 0            | 0.5          |
| CTD-2198F24  | 93550  | 1270     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-759M17  | 110979 | 1611     | 11    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| CTD-2059P15C | 112818 | 1614     | 11    | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| CTB-136O14   | 67488  | 1692     | 12    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2022D21  | 102795 | 1719     | 12    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| CTD-2119E15  | 94305  | 1869     | 14    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| CTD-2022G15  | 72774  | 1931     | 15    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| CTD-2024G1   | 76549  | 1933     | 15    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| CTB-166E20   | 45434  | 2198     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTC-330D24   | 56209  | 2212     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2200K24  | 44137  | 2277     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| LLNL-255K9   | 56590  | 2309     | 20    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| CTD-2031K20  | 49812  | 2291     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| CTD-2146L16  | 31310  | 2338     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| CTD-2194F18  | 38160  | 2366     | 22    | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-804H8   | 50518  | 383      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-78F16   | 30741  | 1660     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-15L3    | 68218  | 1694     | 12    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-110L13  | 105290 | 1723     | 12    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-18J7    | 100203 | 1715     | 12    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-64N21   | 27316  | 1658     | 12    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-59H1    | 12770  | 1647     | 12    | 5              | 1           | 1           | 0.62            | 0.2          | 0.2          |
| CTB-134O19   | 67610  | 676      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| CTD-2113L13  | 137697 | 713      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| CTD-2262N19  | 176537 | 748      | 5     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| CTD-2122A15  | 37189  | 783      | 6     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| CTD-2026K7   | 100037 | 813      | 6     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| CTD-2130B14  | 31650  | 777      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-71C11   | 185063 | 107      | 1     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-138E20  | 36331  | 885      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-13N10   | 208849 | 329      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-300D24  | 212385 | 330      | 2     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-560C24  | 213655 | 332      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-118M12  | 241894 | 349      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-337M10  | 3931   | 147      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-110G2   | 46226  | 205      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-130P22  | 46418  | 207      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-436K12 | 47599  | 208      | 2     | 2              | 0           | 1           | 0.25            | 0            | 0.5          |
| RP11-494H5  | 55917  | 211      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| CTB-136O8   | 45082  | 2352     | 21    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-482H16 | 56465  | 212      | 2     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-728F15 | 57493  | 214      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-90D1   | 59262  | 215      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-111P18 | 19796  | 170      | 2     | 5              | 1           | 1           | 0.62            | 0.2          | 0.2          |
| RP11-116D2  | 21159  | 172      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-513P11 | 20594  | 171      | 2     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-541A15 | 31330  | 188      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-444D15 | 32224  | 191      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-93O2   | 32483  | 192      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-356H17 | 71744  | 233      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-263L17 | 65704  | 223      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-401N16 | 69951  | 230      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-340F16 | 65881  | 224      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-688J22 | 85993  | 239      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-4C8    | 190503 | 317      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-554H10 | 88495  | 241      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-426K3  | 101146 | 246      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP4-690P14  | 49335  | 380      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-123F4  | 48000  | 909      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-353K11 | 96897  | 243      | 2     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-127K18 | 98651  | 245      | 2     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-299H21 | 101327 | 247      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-483E17 | 175544 | 304      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-176L20 | 172629 | 302      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-567N19 | 170584 | 300      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-279N12 | 177899 | 308      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-12N7   | 176227 | 306      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-442L5  | 137676 | 275      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-434I13 | 113472 | 252      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-547F18 | 67099  | 225      | 2     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-17G11  | 153584 | 290      | 2     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-11C17  | 154022 | 291      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-750D14 | 169889 | 298      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-141H20 | 170190 | 299      | 2     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-224H3  | 144967 | 279      | 2     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-111J6  | 18611  | 168      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-47E6   | 204775 | 327      | 2     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-31C6   | 71528  | 1769     | 13    | 6              | 1           | 2           | 0.75            | 0.17         | 0.33         |
| RP11-126J14 | 13498  | 759      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-176L22 | 233638 | 344      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-93G2   | 76799  | 1777     | 13    | 2              | 1           | 0           | 0.25            | 0.5          | 0            |
| RP11-73D20  | 102469 | 815      | 6     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-77O20  | 5586   | 1318     | 10    | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| RP11-19J14  | 96752  | 1785     | 13    | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-230A13 | 21593  | 1335     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-14A8   | 22138  | 1338     | 10    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-8C15   | 19885  | 1739     | 13    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-3P8    | 110658 | 1798     | 13    | 8              | 3           | 2           | 1               | 0.38         | 0.25         |
| RP11-28E3   | 73086  | 1380     | 10    | 5              | 3           | 1           | 0.62            | 0.6          | 0.2          |
| RP11-92I18  | 49923  | 1356     | 10    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-265F14 | 15121  | 12       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-25D22  | 7695   | 1459     | 11    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-86K9   | 69724  | 1371     | 10    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-165A8  | 167931 | 97       | 1     | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-35F11  | 62953  | 1544     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-112F5  | 76964  | 1384     | 10    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-71J7   | 31391  | 190      | 2     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-97H19  | 6826   | 461      | 4     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-15J15  | 125424 | 1631     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-79M5   | 96648  | 1398     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-241P3  | 42270  | 375      | 3     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-60P2   | 85146  | 1942     | 15    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-41D21  | 107841 | 1413     | 10    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP11-205A6  | 127270 | 417      | 3     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-3K7    | 61062  | 2166     | 18    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-95H5   | 106895 | 249      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-53F19  | 38805  | 1748     | 13    | 2              | 0           | 1           | 0.25            | 0            | 0.5          |
| RP11-46O23  | 7387   | 645      | 5     | 5              | 2           | 0           | 0.62            | 0.4          | 0            |
| RP11-39A8   | 168191 | 296      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-52B21  | 45018  | 1757     | 13    | 4              | 0           | 3           | 0.5             | 0            | 0.75         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-277N18 | 106611 | 691      | 5     | 4              | 0           | 3           | 0.5             | 0            | 0.75         |
| RP11-236B14 | 55230  | 2211     | 19    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-194F13 | 238741 | 141      | 1     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-35I11  | 8923   | 1326     | 10    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-35O10  | 166977 | 738      | 5     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-119J12 | 45906  | 204      | 2     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-15H10  | 29581  | 1349     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-115G22 | 30109  | 1886     | 15    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-61N23  | 175659 | 305      | 2     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-282N18 | 74004  | 1381     | 10    | 5              | 2           | 1           | 0.62            | 0.4          | 0.2          |
| RP11-66L23  | 49230  | 1899     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-41F5   | 23710  | 367      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-53P21  | 4285   | 753      | 6     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-32I9   | 115887 | 1423     | 10    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-18B17  | 58506  | 1912     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-129P2  | 108925 | 406      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-213H12 | 56390  | 1907     | 15    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-30M4   | 63585  | 1918     | 15    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-119J20 | 173700 | 607      | 4     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-84C17  | 7778   | 2180     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-33B6   | 70593  | 1929     | 15    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-260E18 | 16623  | 654      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-66C14  | 38715  | 2349     | 21    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-203J7  | 102729 | 689      | 5     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-116L7  | 83600  | 1941     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-1H14   | 77844  | 681      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-103L11 | 3816   | 640      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-205O15 | 7256   | 1458     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-45L19  | 128229 | 706      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-143O12 | 55756  | 665      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-139H5  | 21963  | 16       | 1     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-145M23 | 24851  | 774      | 6     | 1              | 0           | 0           | 0.12            | 0            | 0            |
| RP11-42M12  | 127225 | 705      | 5     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-156M23 | 96290  | 64       | 1     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-32O2   | 85580  | 808      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-31B18  | 155638 | 728      | 5     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-254E10 | 11164  | 1053     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-5N6    | 112964 | 1615     | 11    | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP11-7H16   | 53413  | 796      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-147D7  | 37482  | 2193     | 19    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-133I16 | 120201 | 1626     | 11    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-188F7  | 12042  | 9        | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-2J15   | 51666  | 2207     | 19    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-17M17  | 132085 | 1636     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-4O6    | 27542  | 21       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-11O15  | 15615  | 2246     | 20    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-235O5  | 10594  | 1051     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-11L6   | 28646  | 369      | 3     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-193P21 | 210105 | 125      | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-71N16  | 38411  | 2263     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-51C1   | 19264  | 1064     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-32A11  | 96430  | 1272     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-105E2  | 87242  | 1258     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-288N10 | 23445  | 1074     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| GS1-206P22  | 147450 | 1023     | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-18A21  | 30769  | 1221     | 9     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-225J6  | 75709  | 1135     | 8     | 2              | 1           | 0           | 0.25            | 0.5          | 0            |
| GS1-100A6   | 37897  | 890      | 7     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-106J7  | 3377   | 2125     | 18    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-147H22 | 96445  | 1273     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-214E11 | 80998  | 1141     | 8     | 8              | 6           | 0           | 1               | 0.75         | 0            |
| RP11-51G15  | 120265 | 1424     | 10    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-91B20  | 4859   | 459      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-10G10  | 101112 | 1157     | 8     | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| RP11-42K2   | 128795 | 1440     | 10    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-126C7  | 38162  | 486      | 4     | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-56J22  | 20188  | 1485     | 11    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-54L9   | 191165 | 451      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-160B24 | 51859  | 2157     | 18    | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-150D18 | 41866  | 1520     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-119C22 | 33787  | 779      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-7H17   | 75214  | 2174     | 18    | 6              | 0           | 3           | 0.75            | 0            | 0.5          |
| RP11-72H12  | 28877  | 185      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-225L15 | 207593 | 328      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-30C8   | 71779  | 1770     | 13    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-159C8  | 20443  | 767      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-188B21 | 233910 | 345      | 2     | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-78P9   | 108555 | 818      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-33J8   | 7200   | 1321     | 10    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-122A8  | 97371  | 1786     | 13    | 2              | 0           | 0           | 0.25            | 0            | 0            |
| RP11-18B14  | 21850  | 1336     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-200C22 | 22622  | 1340     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-87E7   | 21702  | 1740     | 13    | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-19O15  | 111287 | 1799     | 13    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-62E15  | 76964  | 1385     | 10    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-240K9  | 52297  | 1359     | 10    | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-62B23  | 30378  | 24       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-72L17  | 14374  | 1472     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-41F17  | 71740  | 1375     | 10    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-118P13 | 182394 | 105      | 1     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-120P20 | 70129  | 1567     | 11    | 6              | 2           | 1           | 0.75            | 0.33         | 0.17         |
| RP11-45P20  | 78276  | 1386     | 10    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-81L7   | 57129  | 213      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-276O17 | 23986  | 471      | 4     | 4              | 2           | 0           | 0.5             | 0.5          | 0            |
| RP11-7F12   | 131207 | 1635     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-123G19 | 98832  | 1400     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-189K9  | 54679  | 388      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-120N1  | 95763  | 1948     | 15    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-49H17  | 108767 | 1415     | 10    | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-160A13 | 144088 | 425      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-53N15  | 70193  | 2171     | 18    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-218F21 | 113094 | 251      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-9F13   | 39564  | 1750     | 13    | 2              | 0           | 1           | 0.25            | 0            | 0.5          |
| RP11-5N8    | 14927  | 650      | 5     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-218D15 | 171577 | 301      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-120G8  | 46357  | 1758     | 13    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-15P5   | 120387 | 701      | 5     | 2              | 0           | 1           | 0.25            | 0            | 0.5          |
| RP11-12C9   | 62474  | 2214     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-200F14 | 6680   | 150      | 2     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-42I17  | 8183   | 1325     | 10    | 6              | 2           | 1           | 0.75            | 0.33         | 0.17         |
| RP11-14K9   | 168407 | 739      | 5     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-24P23  | 70526  | 231      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-45L17  | 33134  | 1351     | 10    | 1              | 0           | 0           | 0.12            | 0            | 0            |
| RP11-194H7  | 32327  | 1889     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-34N13  | 199173 | 324      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-17O5   | 78596  | 1388     | 10    | 5              | 3           | 0           | 0.62            | 0.6          | 0            |
| RP11-49K3   | 48250  | 1898     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-286G5  | 36353  | 372      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-168G4  | 6939   | 755      | 6     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-48B22  | 121249 | 1426     | 10    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-74K1   | 58459  | 1911     | 15    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-214A5  | 116445 | 411      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-102E12 | 4458   | 2128     | 18    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-54P3   | 64253  | 1920     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-13O14  | 185751 | 624      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-110J19 | 34465  | 2191     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-10K12  | 76260  | 1932     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-85N3   | 35843  | 660      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-22M5   | 20602  | 2356     | 22    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-252I13 | 107005 | 692      | 5     | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| RP11-131K19 | 85888  | 1943     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-47N20  | 81388  | 683      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-36H5   | 6365   | 644      | 5     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-133H19 | 8563   | 1460     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-4E3    | 133193 | 708      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-190C5  | 57585  | 668      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-166E15 | 17179  | 1476     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-88O2   | 41926  | 35       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-2P4    | 27928  | 776      | 6     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-21J3   | 134471 | 711      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-178M11 | 101435 | 68       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-113K7  | 91938  | 811      | 6     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-47O12  | 156664 | 729      | 5     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-277K10 | 9674   | 1047     | 8     | 4              | 0           | 3           | 0.5             | 0            | 0.75         |
| RP11-279M1  | 113807 | 1617     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-146B10 | 55302  | 798      | 6     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-92J4   | 41164  | 2194     | 19    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-126D18 | 120456 | 1627     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-178M15 | 13349  | 10       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-24E15  | 474    | 2218     | 20    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-27H17  | 133589 | 1637     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-104J13 | 30834  | 25       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-16N16  | 16942  | 2247     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-252K12 | 10893  | 1052     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-209O16 | 38238  | 374      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-74E6   | 211594 | 126      | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-9M24   | 39568  | 2265     | 20    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-274K12 | 15976  | 1061     | 8     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| RP11-31N23  | 87906  | 1259     | 9     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-106O17 | 93144  | 1267     | 9     | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-204M16 | 23223  | 1072     | 8     | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-17O4   | 127638 | 1302     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-65J24  | 76694  | 1136     | 8     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| GS1-191O15  | 2730   | 846      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-113J12 | 3431   | 2126     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-136M18 | 75400  | 1244     | 9     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-80C11  | 82164  | 1143     | 8     | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| RP11-257O17 | 121974 | 1427     | 10    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-101J14 | 8171   | 462      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-208E21 | 100605 | 1156     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-31A20  | 129012 | 1441     | 10    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-264N7  | 41277  | 489      | 4     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-2C23   | 19960  | 1484     | 11    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-233N20 | 198343 | 452      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-12J12  | 55422  | 2160     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-79G4   | 41566  | 1519     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-139J19 | 36312  | 781      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-54G9   | 3006   | 2179     | 19    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-128C5  | 44049  | 203      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-4B6    | 218461 | 334      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-9P22   | 72520  | 1773     | 13    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP11-224B15 | 23690  | 772      | 6     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-21K1   | 235978 | 347      | 2     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-51C8   | 85579  | 1779     | 13    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-28K19  | 119429 | 825      | 6     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-197K17 | 8120   | 1324     | 10    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-23M9   | 97662  | 1787     | 13    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-66P13  | 26493  | 1347     | 10    | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-75N18  | 24840  | 1345     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-18F22  | 23399  | 1742     | 13    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-30I17  | 143379 | 82       | 1     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-129G17 | 89676  | 1396     | 10    | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-27P22  | 51484  | 1357     | 10    | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP11-253M24 | 45171  | 36       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-80B10  | 19235  | 1479     | 11    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-104F15 | 71425  | 1374     | 10    | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-65I22  | 199789 | 113      | 1     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-98G24  | 77013  | 1580     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-19C18  | 78296  | 1387     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-113N17 | 82587  | 237      | 2     | 3              | 0           | 3           | 0.38            | 0            | 1            |
| RP11-24G16  | 38053  | 485      | 4     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-256M2  | 25602  | 1885     | 15    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-80H11  | 101068 | 1403     | 10    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-229A12 | 57353  | 392      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-55N14  | 2655   | 2124     | 18    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-246B13 | 108591 | 1414     | 10    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-64F6   | 152252 | 430      | 3     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-49M3   | 2419   | 2178     | 19    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-1L22   | 133492 | 271      | 2     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-88N4   | 39608  | 1751     | 13    | 6              | 0           | 3           | 0.75            | 0            | 0.5          |
| RP11-5N11   | 31667  | 657      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-12N7   | 176227 | 306      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-16F6   | 51033  | 1763     | 13    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-21C10  | 133928 | 710      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-31B6   | 14999  | 2316     | 21    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-185P14 | 9619   | 156      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-40D12  | 13694  | 1328     | 10    | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-182E4  | 170151 | 741      | 5     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-63D13  | 79682  | 236      | 2     | 6              | 0           | 0           | 0.75            | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-48O11  | 43423  | 1353     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-70A17  | 32651  | 1890     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-53G6   | 220995 | 335      | 2     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-9M11   | 88215  | 1393     | 10    | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-221H24 | 50811  | 1901     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-119L2  | 42435  | 376      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-66E14  | 8799   | 758      | 6     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-262E19 | 123678 | 1431     | 10    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-203F9  | 58191  | 1910     | 15    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-169N13 | 120765 | 415      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-10G8   | 17272  | 2140     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-85E15  | 65209  | 1922     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-94J21  | 1478   | 637      | 5     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-133A7  | 45983  | 2199     | 19    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-7P8    | 76930  | 1934     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-160F8  | 53345  | 663      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-65F22  | 30954  | 2361     | 22    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-13O21  | 111718 | 694      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-185D5  | 92167  | 1946     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-115L24 | 103124 | 690      | 5     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-145B1  | 10279  | 646      | 5     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-170F20 | 10534  | 1463     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-115I4  | 139880 | 715      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-174I22 | 62919  | 671      | 5     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-13O19  | 19261  | 1480     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-55M23  | 54837  | 40       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-197P9  | 35199  | 780      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-233E5  | 137655 | 712      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-284N8  | 110394 | 72       | 1     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-59F18  | 112942 | 822      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-4J6    | 158183 | 731      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-113B7  | 4219   | 1041     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-36M5   | 113531 | 1616     | 11    | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-164C22 | 62318  | 801      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-140E1  | 43373  | 2196     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-145I11 | 121703 | 1628     | 11    | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-219F4  | 14391  | 11       | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-153M12 | 941    | 2219     | 20    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-82K8   | 2080   | 1038     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-4P6    | 32880  | 27       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-11M17  | 17708  | 2249     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-122N11 | 7296   | 1045     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-189H19 | 44574  | 377      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-260A10 | 214205 | 130      | 1     | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-17F3   | 41360  | 2270     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-191P9  | 19617  | 1065     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-31D18  | 77811  | 1246     | 9     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-115L5  | 33163  | 1226     | 9     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-89M8   | 22745  | 1071     | 8     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| GS1-17A10   | 77782  | 939      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17J8   | 34511  | 1227     | 9     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-203C23 | 74977  | 1134     | 8     | 1              | 0           | 1           | 0.12            | 0            | 1            |
| CTB-140E3   | 100337 | 967      | 7     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-105C15 | 5911   | 2129     | 18    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-142P12 | 81525  | 1250     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-107C1  | 82451  | 1144     | 8     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-255D5  | 123240 | 1430     | 10    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-69L7   | 753    | 455      | 4     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-142F22 | 100511 | 1155     | 8     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-48A2   | 129270 | 1442     | 10    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-138F23 | 40749  | 488      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-11A11  | 19912  | 1483     | 11    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-177C16 | 7368   | 756      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-15C15  | 57286  | 2162     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-18D13  | 42826  | 1521     | 11    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-136C6  | 39160  | 785      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-201F4  | 13702  | 2183     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-180L21 | 46240  | 206      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-23G2   | 222128 | 336      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-46L3   | 72410  | 1772     | 13    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-54H13  | 32633  | 778      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-116M19 | 236917 | 348      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-86C3   | 87949  | 1780     | 13    | 7              | 0           | 0           | 0.88            | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-177M14 | 133412 | 831      | 6     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-61P15  | 13711  | 1329     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-113F15 | 98060  | 1788     | 13    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-70B16  | 34315  | 1352     | 10    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-176P2  | 24560  | 1344     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-204D11 | 23146  | 1741     | 13    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-177M16 | 171602 | 99       | 1     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-19K9   | 99295  | 1401     | 10    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-179B15 | 59302  | 1362     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-69G14  | 61842  | 46       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-15A11  | 23939  | 1486     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-58O1   | 72320  | 1377     | 10    | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-167J2  | 206665 | 121      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-40G3   | 83096  | 1585     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-78F9   | 80207  | 1389     | 10    | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-1L22   | 133492 | 271      | 2     | 2              | 0           | 2           | 0.25            | 0            | 1            |
| RP11-38M16  | 40214  | 487      | 4     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-39N23  | 49512  | 1900     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-260L2  | 101657 | 1405     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-108A8  | 63284  | 398      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-7E5    | 10750  | 2135     | 18    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-3G2    | 110790 | 1416     | 10    | 8              | 2           | 3           | 1               | 0.25         | 0.38         |
| RP11-209H21 | 160565 | 432      | 3     | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-56K21  | 14304  | 2184     | 19    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-119N3  | 137699 | 277      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-21H9   | 40802  | 1752     | 13    | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-22L20  | 55905  | 666      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-250B10 | 179859 | 309      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-234M13 | 54306  | 1764     | 13    | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| RP11-14K13  | 141675 | 717      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-6I7    | 26777  | 2327     | 21    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-81F24  | 15249  | 166      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-19L14  | 15557  | 1331     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-9I14   | 171180 | 742      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-8C18   | 106168 | 248      | 2     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-67O23  | 53025  | 1360     | 10    | 4              | 2           | 0           | 0.5             | 0.5          | 0            |
| RP11-173E7  | 33953  | 1891     | 15    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-129K1  | 2132   | 353      | 3     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-8D20   | 97763  | 1399     | 10    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-47P5   | 52596  | 1903     | 15    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-122D19 | 53990  | 386      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-83B17  | 14557  | 760      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-8O10   | 127417 | 1436     | 10    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-107I6  | 62769  | 1917     | 15    | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-59J16  | 128438 | 418      | 3     | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-104N11 | 33435  | 2147     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-101C13 | 67649  | 1925     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-82M24  | 3449   | 639      | 5     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-17I20  | 53768  | 2209     | 19    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-81A1   | 77858  | 1935     | 15    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-47P7   | 56283  | 667      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-213L15 | 27826  | 2359     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-58G19  | 113712 | 698      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-57P19  | 92715  | 1947     | 15    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-64F17  | 112761 | 697      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-72C10  | 10746  | 647      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-82L24  | 11685  | 1466     | 11    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-109G16 | 147258 | 719      | 5     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-40N8   | 67255  | 675      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-199K11 | 19383  | 1481     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-110A23 | 60743  | 45       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-133J6  | 39187  | 786      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-55M16  | 141079 | 716      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-8D14   | 157812 | 87       | 1     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-12C21  | 125373 | 828      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-210K16 | 160720 | 733      | 5     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-121F7  | 3284   | 1040     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-35P15  | 117055 | 1619     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-2M9    | 71712  | 804      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-208I3  | 47672  | 2200     | 19    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-35M6   | 122910 | 1630     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-145C4  | 18460  | 13       | 1     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-26F18  | 3123   | 2223     | 20    | 8              | 0           | 2           | 1               | 0            | 0.25         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-140K14 | 4358   | 1042     | 8     | 5              | 0           | 4           | 0.62            | 0            | 0.8          |
| RP11-161A11 | 34018  | 29       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-110C10 | 18211  | 2250     | 20    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-287P18 | 7157   | 1044     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-39L1   | 55786  | 389      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-66M7   | 214200 | 129      | 1     | 8              | 3           | 1           | 1               | 0.38         | 0.12         |
| RP11-4A12   | 42402  | 2272     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-233H21 | 19702  | 1066     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-30N20  | 97948  | 1276     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-115I23 | 13018  | 1208     | 9     | 5              | 0           | 4           | 0.62            | 0            | 0.8          |
| RP11-158F9  | 24859  | 1075     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| RP11-16N10  | 67236  | 1236     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-117N14 | 74642  | 1132     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| CTB-88A9    | 36807  | 888      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-102O20 | 9932   | 2132     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-132G20 | 15858  | 1211     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-93E11  | 81763  | 1142     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-70E19  | 124606 | 1433     | 10    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-210D19 | 53294  | 502      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-136H10 | 100171 | 1154     | 8     | 7              | 3           | 0           | 0.88            | 0.43         | 0            |
| RP11-27F2   | 133055 | 1444     | 10    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-113F10 | 42338  | 490      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-203L7  | 26547  | 1488     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-88E14  | 16499  | 763      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-105L16 | 64476  | 2167     | 18    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-102E22 | 44107  | 1523     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-105P7  | 40322  | 787      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-107O2  | 14886  | 2185     | 19    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-87C16  | 73390  | 234      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-247E23 | 223880 | 338      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-79I4   | 72184  | 1771     | 13    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-174E21 | 37591  | 784      | 6     | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-69N2   | 340    | 1312     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-165N12 | 90719  | 1781     | 13    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-15H7   | 139915 | 835      | 6     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-22K18  | 14455  | 1330     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-7B23   | 99930  | 1789     | 13    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-71N21  | 51554  | 1358     | 10    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-218D6  | 28169  | 1348     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-7G2    | 25534  | 1743     | 13    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-216F1  | 209140 | 124      | 1     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| RP11-16H23  | 105401 | 1410     | 10    | 7              | 1           | 3           | 0.88            | 0.14         | 0.43         |
| RP11-72F15  | 61975  | 1364     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-111N18 | 69092  | 51       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-236N9  | 29450  | 1492     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-50K4   | 72570  | 1378     | 10    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-131M16 | 213196 | 128      | 1     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-89H11  | 86775  | 1590     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-31L4   | 80374  | 1390     | 10    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-67J2   | 145625 | 281      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-42A17  | 45819  | 493      | 4     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-25G4   | 53725  | 1904     | 15    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-37L21  | 102391 | 1407     | 10    | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-154H23 | 71461  | 402      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-90B5   | 32374  | 2146     | 18    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-182C2  | 111415 | 1417     | 10    | 8              | 2           | 4           | 1               | 0.25         | 0.5          |
| RP11-114M1  | 178594 | 442      | 3     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-91H20  | 43016  | 2195     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-67J2   | 145625 | 281      | 2     | 1              | 0           | 0           | 0.12            | 0            | 0            |
| RP11-34K15  | 41260  | 1753     | 13    | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-19I19  | 58769  | 670      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-69G4   | 183149 | 311      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-205J24 | 55720  | 1765     | 13    | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-170L13 | 155172 | 727      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-30N6   | 29766  | 2333     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-171A13 | 19239  | 169      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-60J16  | 20564  | 1333     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-88L12  | 172574 | 744      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-9L19   | 134313 | 273      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-133C15 | 53259  | 1361     | 10    | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-27P20  | 42541  | 1896     | 15    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-32F23  | 4055   | 354      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-4G4    | 101310 | 1404     | 10    | 1              | 0           | 0           | 0.12            | 0            | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-61K4   | 53806  | 1905     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-124O2  | 54341  | 387      | 3     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-113K20 | 15945  | 761      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-35C24  | 133884 | 1445     | 10    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-42F24  | 61143  | 1914     | 15    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-220J13 | 136638 | 420      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-153B11 | 52816  | 2158     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-28D6   | 67456  | 1924     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-58A5   | 4965   | 642      | 5     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-49J9   | 20982  | 2321     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-60J21  | 78495  | 1936     | 15    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-59G13  | 57985  | 669      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-35I10  | 35153  | 2363     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-81C5   | 115231 | 699      | 5     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-9B21   | 96437  | 1949     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-15L8   | 66394  | 1553     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-135M13 | 15627  | 651      | 5     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-245K9  | 12686  | 1469     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-128C13 | 150065 | 723      | 5     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-62D9   | 76314  | 680      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-89P14  | 18158  | 1478     | 11    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-30A5   | 63059  | 47       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-3M23   | 47358  | 793      | 6     | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-82P23  | 148396 | 720      | 5     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-249C5  | 165280 | 94       | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-51N24  | 113606 | 823      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-90N23  | 159866 | 732      | 5     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-112G9  | 10039  | 1049     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-45N4   | 118011 | 1621     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-28P18  | 75042  | 806      | 6     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-18J23  | 48076  | 2201     | 19    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-87O12  | 122731 | 1629     | 11    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-224F8  | 19980  | 14       | 1     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-48M7   | 3775   | 2224     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-235I5  | 11539  | 1054     | 8     | 5              | 0           | 5           | 0.62            | 0            | 1            |
| RP11-51A20  | 33624  | 28       | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-7F10   | 21656  | 2251     | 20    | 1              | 0           | 1           | 0.12            | 0            | 1            |
| RP11-31B7   | 12753  | 1057     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-120C2  | 57323  | 391      | 3     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-211K12 | 216257 | 132      | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-29H19  | 43291  | 2275     | 20    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-93D21  | 20335  | 1067     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-26K11  | 11790  | 1206     | 9     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-70F16  | 31035  | 1222     | 9     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-76B12  | 25212  | 1076     | 8     | 8              | 0           | 4           | 1               | 0            | 0.5          |
| CTB-51J22   | 72822  | 934      | 7     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-16A3   | 112785 | 1293     | 9     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-33D7   | 74944  | 1133     | 8     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| GS1-53F14   | 157964 | 1033     | 7     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-67I20  | 10000  | 2133     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-125K10 | 4820   | 1198     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-3J21   | 93059  | 1147     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-162A23 | 124347 | 1432     | 10    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-175I24 | 53657  | 503      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-20K4   | 66929  | 1554     | 11    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-142I8  | 132877 | 1443     | 10    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-253O5  | 44474  | 491      | 4     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-246J1  | 30505  | 1495     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-22P23  | 17056  | 765      | 6     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-64C15  | 65585  | 2169     | 18    | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-206I1  | 45055  | 1526     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-14G23  | 40340  | 788      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-88I12  | 19023  | 2187     | 19    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-82B19  | 84963  | 238      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-183N7  | 224790 | 339      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-43P9   | 73966  | 1774     | 13    | 4              | 0           | 3           | 0.5             | 0            | 0.75         |
| RP11-10M23  | 43145  | 789      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-111O7  | 1578   | 1314     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-100A3  | 92619  | 1782     | 13    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-20H19  | 155211 | 837      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-22B24  | 17956  | 1332     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-29B2   | 100907 | 1790     | 13    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-50A5   | 60133  | 1363     | 10    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-181I11 | 30577  | 1350     | 10    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-64C21  | 29038  | 1745     | 13    | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-210E16 | 229579 | 136      | 1     | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-46G13  | 115612 | 1422     | 10    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-8E20   | 63911  | 1365     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-96F24  | 109560 | 69       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-103P20 | 36029  | 1510     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-69I18  | 72931  | 1379     | 10    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-212E22 | 239819 | 142      | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-267L1  | 97426  | 1594     | 11    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-93O23  | 81837  | 1391     | 10    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-13C20  | 151964 | 287      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-32K21  | 52945  | 501      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-13J23  | 58647  | 1913     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-34D15  | 101703 | 1406     | 10    | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-129G16 | 102056 | 404      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-265I6  | 35981  | 2148     | 18    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-182P7  | 111544 | 1418     | 10    | 8              | 2           | 4           | 1               | 0.25         | 0.5          |
| RP11-178K17 | 190400 | 450      | 3     | 7              | 4           | 0           | 0.88            | 0.57         | 0            |
| RP11-118P21 | 43862  | 2197     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-13C20  | 151964 | 287      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-17I11  | 41630  | 1754     | 13    | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-15P2   | 66185  | 674      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-38I11  | 184695 | 314      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-205C23 | 71118  | 1768     | 13    | 5              | 0           | 2           | 0.62            | 0            | 0.4          |
| RP11-94L2   | 163302 | 735      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-147H1  | 32217  | 2342     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-77G15  | 34254  | 193      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-43K6   | 21867  | 1337     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-105L4  | 172986 | 745      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-29N17  | 141898 | 278      | 2     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-14I14  | 64542  | 1366     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-117J16 | 40050  | 1894     | 15    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-128A5  | 8687   | 356      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-21N23  | 103585 | 1409     | 10    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RP11-30I7   | 54130  | 1906     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-169G24 | 56154  | 390      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-163E21 | 16761  | 764      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-120E20 | 3582   | 1451     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-100N8  | 61304  | 1915     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-72E23  | 146387 | 427      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-75O12  | 59636  | 2165     | 18    | 8              | 0           | 4           | 1               | 0            | 0.5          |
| RP11-64K10  | 68548  | 1926     | 15    | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-35K22  | 5802   | 643      | 5     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-86J21  | 22225  | 2322     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-58C20  | 81944  | 1938     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-87D20  | 66059  | 673      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-108C6  | 37172  | 2364     | 22    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-265M23 | 122554 | 703      | 5     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-209M9  | 4188   | 1453     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RMC20P160   | 10282  | 2236     | 20    | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-261B20 | 15871  | 652      | 5     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-206L19 | 11689  | 1467     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-82E8   | 157700 | 730      | 5     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-1E10   | 78971  | 682      | 5     | 6              | 0           | 1           | 0.75            | 0            | 0.17         |
| RP11-62G18  | 19596  | 1482     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-114K16 | 75136  | 52       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-284E1  | 53763  | 797      | 6     | 6              | 1           | 1           | 0.75            | 0.17         | 0.17         |
| RP11-216N13 | 147258 | 718      | 5     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-212K9  | 180113 | 103      | 1     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-32P13  | 136296 | 833      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-88J19  | 162135 | 734      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-246G24 | 2356   | 1039     | 8     | 7              | 0           | 7           | 0.88            | 0            | 1            |
| RP11-62A14  | 118862 | 1622     | 11    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-13I21  | 91180  | 810      | 6     | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-210C7  | 48859  | 2202     | 19    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-20M1   | 125860 | 1632     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-57F20  | 23269  | 19       | 1     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-235C20 | 5082   | 2228     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-218N24 | 11734  | 1055     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-118E3  | 35000  | 30       | 1     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-77C2   | 23093  | 2252     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-92C1   | 12846  | 1058     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-180G14 | 59521  | 393      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-149C8  | 219213 | 133      | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-69I10  | 42719  | 2273     | 20    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-50E20  | 21200  | 1068     | 8     | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-28N6   | 1301   | 1194     | 9     | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-85P21  | 118302 | 1299     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-70L1   | 25299  | 1077     | 8     | 8              | 0           | 5           | 1               | 0            | 0.62         |
| GS1-193F11  | 120591 | 991      | 7     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-14J9   | 73222  | 1241     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-93J13  | 78060  | 1137     | 8     | 5              | 3           | 0           | 0.62            | 0.6          | 0            |
| GS1-259E18  | 128687 | 1001     | 7     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-24G5   | 10150  | 2134     | 18    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-122A20 | 2644   | 1195     | 9     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-118O8  | 92919  | 1146     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-47G11  | 125275 | 1434     | 10    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-80L11  | 55111  | 506      | 4     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-175G7  | 11492  | 358      | 3     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-88C10  | 636    | 2121     | 18    | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-105F21 | 44739  | 492      | 4     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-215F2  | 31328  | 1497     | 11    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-3D15   | 21716  | 769      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-49H23  | 64907  | 2168     | 18    | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-12C11  | 44934  | 1525     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-91H14  | 43811  | 790      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-206O6  | 33315  | 2188     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-84M16  | 86051  | 240      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-68H19  | 225795 | 340      | 2     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-137M6  | 75831  | 1775     | 13    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-40P17  | 51035  | 795      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-180C18 | 1482   | 1313     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-40H10  | 93260  | 1783     | 13    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RP11-6H14   | 2197   | 1315     | 10    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-73E18  | 22794  | 1342     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-2L10   | 101246 | 1791     | 13    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-99D16  | 69318  | 1370     | 10    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-127L3  | 44121  | 1355     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-63C16  | 29031  | 1744     | 13    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-261B20 | 15871  | 652      | 5     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-7P17   | 122745 | 1428     | 10    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-237J7  | 66053  | 1367     | 10    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-130B18 | 115000 | 78       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-12D19  | 43689  | 1522     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-152N13 | 74222  | 1382     | 10    | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP11-87J7   | 10565  | 157      | 2     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-47N15  | 111630 | 1613     | 11    | 8              | 2           | 1           | 1               | 0.25         | 0.12         |
| RP11-284D10 | 85060  | 1392     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-39A8   | 168191 | 296      | 2     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-98G22  | 54688  | 504      | 4     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-70A7   | 64033  | 1919     | 15    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-105N15 | 102961 | 1408     | 10    | 8              | 2           | 2           | 1               | 0.25         | 0.25         |
| RP11-153K19 | 113988 | 409      | 3     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-43K24  | 45621  | 2152     | 18    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-31O24  | 114186 | 1420     | 10    | 4              | 3           | 1           | 0.5             | 0.75         | 0.25         |
| RP11-20I20  | 1083   | 456      | 4     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-19H11  | 48973  | 2203     | 19    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-185M22 | 152865 | 289      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-217H23 | 43656  | 1756     | 13    | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-207B2  | 81757  | 684      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-30M1   | 195683 | 321      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-94F7   | 71104  | 1767     | 13    | 5              | 0           | 3           | 0.62            | 0            | 0.6          |
| RP11-69A18  | 171198 | 743      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-12N9   | 36747  | 2348     | 21    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-163N23 | 36574  | 196      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-73J23  | 23586  | 1343     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-48K2   | 173001 | 746      | 5     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-72H23  | 149013 | 284      | 2     | 1              | 0           | 1           | 0.12            | 0            | 1            |
| RP11-6P16   | 70407  | 1372     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-62L9   | 37198  | 1892     | 15    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-279L16 | 15171  | 362      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-128H11 | 107185 | 1412     | 10    | 4              | 1           | 2           | 0.5             | 0.25         | 0.5          |
| RP11-99L18  | 57302  | 1908     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-114P15 | 62456  | 397      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-43B4   | 20118  | 766      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-28I11  | 10500  | 1462     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-50N10  | 62114  | 1916     | 15    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-65L11  | 152627 | 431      | 3     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-57F7   | 66822  | 2170     | 18    | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-21I7   | 70071  | 1927     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-29N3   | 11435  | 648      | 5     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-15H6   | 26666  | 2326     | 21    | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-68P22  | 82928  | 1939     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-267K19 | 67819  | 677      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-206B19 | 40483  | 2368     | 22    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-47L19  | 121395 | 702      | 5     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-98L18  | 6113   | 1456     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RMC20P178   | 11519  | 2242     | 20    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-253B9  | 37905  | 661      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-21L19  | 14206  | 1471     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-15F10  | 169122 | 740      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-135F5  | 86020  | 686      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-262B15 | 9853   | 1048     | 8     | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-198H14 | 78407  | 54       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-277K21 | 64091  | 802      | 6     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-109B15 | 151601 | 725      | 5     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-196B7  | 179543 | 102      | 1     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-59D4   | 4301   | 1317     | 10    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-128E4  | 164959 | 737      | 5     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-240A17 | 1524   | 1036     | 8     | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| RP11-8K10   | 119095 | 1623     | 11    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-14G17  | 99673  | 812      | 6     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-21J15  | 49695  | 2204     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-41K5   | 126228 | 1633     | 11    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-72I19  | 22834  | 18       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-149O7  | 5513   | 2230     | 20    | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-241I4  | 10209  | 1050     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |
| RP11-219O7  | 36499  | 31       | 1     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-32N12  | 24179  | 2254     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-236O1  | 15646  | 1059     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-129B22 | 63995  | 399      | 3     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-192M1  | 223184 | 135      | 1     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-30F23  | 43830  | 2276     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-274M9  | 22577  | 1070     | 8     | 6              | 0           | 5           | 0.75            | 0            | 0.83         |
| RP11-26H17  | 13369  | 1209     | 9     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-84C18  | 98111  | 1278     | 9     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-164H24 | 25316  | 1078     | 8     | 8              | 0           | 6           | 1               | 0            | 0.75         |
| GS1-27F18   | 79500  | 942      | 7     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-12N24  | 5180   | 1199     | 9     | 8              | 1           | 2           | 1               | 0.12         | 0.25         |
| RP11-90B7   | 79384  | 1138     | 8     | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| CTC-361L6   | 123941 | 995      | 7     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-81J13  | 11547  | 2136     | 18    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-9M16   | 112532 | 1292     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-27I15  | 93148  | 1148     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-5M6    | 126249 | 1435     | 10    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-217B22 | 48819  | 500      | 4     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-121D3  | 2121   | 352      | 3     | 8              | 4           | 0           | 1               | 0.5          | 0            |
| RP11-78H1   | 2137   | 2123     | 18    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-238D1  | 45843  | 494      | 4     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-127K23 | 33269  | 1501     | 11    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-53I19  | 23410  | 771      | 6     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-4B17   | 72859  | 2172     | 18    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-39G12  | 46591  | 1528     | 11    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-121G20 | 44168  | 791      | 6     | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-152P7  | 33418  | 2189     | 19    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-67L23  | 96719  | 242      | 2     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-71H20  | 232440 | 343      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-122N18 | 76215  | 1776     | 13    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-111P16 | 55483  | 799      | 6     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-23O12  | 3622   | 1316     | 10    | 6              | 0           | 2           | 0.75            | 0            | 0.33         |
| RP11-14C20  | 96059  | 1784     | 13    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-5B23   | 6632   | 1319     | 10    | 7              | 1           | 3           | 0.88            | 0.14         | 0.43         |
| RP11-34I5   | 21378  | 1334     | 10    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-86B6   | 102921 | 1792     | 13    | 4              | 1           | 0           | 0.5             | 0.25         | 0            |
| RP11-52K17  | 70854  | 1373     | 10    | 8              | 2           | 0           | 1               | 0.25         | 0            |
| RP11-20J15  | 43988  | 1354     | 10    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-14A4   | 37927  | 1747     | 13    | 8              | 0           | 5           | 1               | 0            | 0.62         |
| RP11-88L18  | 17465  | 656      | 5     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |

Table W1. (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-16P8   | 127765 | 1437     | 10    | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-280H23 | 68620  | 1369     | 10    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-234M3  | 164403 | 91       | 1     | 6              | 2           | 0           | 0.75            | 0.33         | 0            |
| RP11-135H8  | 56376  | 1535     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-243C1  | 75118  | 1383     | 10    | 7              | 2           | 0           | 0.88            | 0.29         | 0            |
| RP11-57F9   | 28578  | 184      | 2     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-94C16  | 119486 | 1624     | 11    | 8              | 3           | 0           | 1               | 0.38         | 0            |
| RP11-67L13  | 92330  | 1397     | 10    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-30M1   | 195683 | 321      | 2     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-135H2  | 56462  | 507      | 4     | 4              | 0           | 1           | 0.5             | 0            | 0.25         |
| RP11-46C10  | 72148  | 1930     | 15    | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-287G20 | 105823 | 1411     | 10    | 8              | 1           | 4           | 1               | 0.12         | 0.5          |
| RP11-220G20 | 118469 | 412      | 3     | 4              | 0           | 0           | 0.5             | 0            | 0            |
| RP11-4G8    | 54596  | 2159     | 18    | 4              | 0           | 2           | 0.5             | 0            | 0.5          |
| RP11-106N20 | 114531 | 1421     | 10    | 4              | 2           | 1           | 0.5             | 0.5          | 0.25         |
| RP11-7A6    | 4936   | 460      | 4     | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-39J16  | 54420  | 2210     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-191I9  | 156486 | 292      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-30N18  | 43382  | 1755     | 13    | 4              | 0           | 3           | 0.5             | 0            | 0.75         |
| RP11-204D12 | 95881  | 688      | 5     | 7              | 0           | 3           | 0.88            | 0            | 0.43         |
| RP11-57C6   | 201831 | 325      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-11C5   | 70914  | 1766     | 13    | 4              | 1           | 2           | 0.5             | 0.25         | 0.5          |
| RP11-24N8   | 5618   | 754      | 6     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-1P3    | 40277  | 2350     | 21    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-163N11 | 37891  | 198      | 2     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-29I13  | 25593  | 1346     | 10    | 7              | 1           | 1           | 0.88            | 0.14         | 0.14         |
| RP11-125L2  | 173496 | 747      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-50J20  | 160851 | 295      | 2     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-29P24  | 72010  | 1376     | 10    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-46O11  | 37687  | 1893     | 15    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-208G16 | 22373  | 365      | 3     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-11I6   | 112985 | 1419     | 10    | 7              | 1           | 3           | 0.88            | 0.14         | 0.43         |
| RP11-120O11 | 57515  | 1909     | 15    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-146E16 | 67590  | 401      | 3     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-273J1  | 22030  | 770      | 6     | 5              | 0           | 1           | 0.62            | 0            | 0.2          |
| RP11-7O20   | 14838  | 1473     | 11    | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-207J8  | 65746  | 1923     | 15    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-198G24 | 165128 | 434      | 3     | 6              | 0           | 0           | 0.75            | 0            | 0            |
| RP11-75H6   | 903    | 2177     | 19    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-106M3  | 70224  | 1928     | 15    | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-269O14 | 16684  | 655      | 5     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-191I6  | 31454  | 2340     | 21    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-43K17  | 83155  | 1940     | 15    | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-172K14 | 74612  | 679      | 5     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-61L22  | 43995  | 2370     | 22    | 4              | 1           | 1           | 0.5             | 0.25         | 0.25         |
| RP11-209F21 | 124962 | 704      | 5     | 7              | 0           | 4           | 0.88            | 0            | 0.57         |
| RP11-30I3   | 6278   | 1457     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-17H13  | 54223  | 664      | 5     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-39F19  | 14886  | 1474     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-21I6   | 177772 | 749      | 5     | 7              | 2           | 1           | 0.88            | 0.29         | 0.14         |
| RP11-45O11  | 89850  | 687      | 5     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-112O8  | 4725   | 1043     | 8     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-89A19  | 80577  | 56       | 1     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-217L13 | 79287  | 807      | 6     | 5              | 0           | 0           | 0.62            | 0            | 0            |
| RP11-86C20  | 152667 | 726      | 5     | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-124A11 | 212702 | 127      | 1     | 7              | 0           | 1           | 0.88            | 0            | 0.14         |
| RP11-85M7   | 6649   | 1320     | 10    | 8              | 1           | 3           | 1               | 0.12         | 0.38         |
| RP11-173F9  | 164945 | 736      | 5     | 1              | 0           | 0           | 0.12            | 0            | 0            |
| RP11-117P11 | 2058   | 1037     | 8     | 7              | 0           | 6           | 0.88            | 0            | 0.86         |
| RP11-117K21 | 119806 | 1625     | 11    | 6              | 1           | 0           | 0.75            | 0.17         | 0            |
| RP11-165E15 | 108282 | 817      | 6     | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-126L20 | 50685  | 2206     | 19    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-112M22 | 127680 | 1634     | 11    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-285H13 | 26900  | 20       | 1     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-9G21   | 6138   | 2231     | 20    | 8              | 0           | 3           | 1               | 0            | 0.38         |
| RP11-235F10 | 9235   | 1046     | 8     | 3              | 0           | 2           | 0.38            | 0            | 0.67         |
| RP11-207P5  | 36935  | 32       | 1     | 5              | 1           | 0           | 0.62            | 0.2          | 0            |
| RP11-58B10  | 24412  | 2255     | 20    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-182G2  | 15660  | 1060     | 8     | 7              | 0           | 5           | 0.88            | 0            | 0.71         |
| RP11-179B9  | 64165  | 400      | 3     | 6              | 3           | 0           | 0.75            | 0.5          | 0            |
| RP11-155C15 | 231705 | 137      | 1     | 7              | 1           | 2           | 0.88            | 0.14         | 0.29         |
| RP11-169A6  | 44334  | 2278     | 20    | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-110I16 | 21482  | 1069     | 8     | 8              | 0           | 7           | 1               | 0            | 0.88         |

**Table W1.** (continued)

| Clone       | kb     | Position | Chrom | NumPresent.All | NumGain.All | NumLost.All | PropPresent.All | PropGain.All | PropLost.All |
|-------------|--------|----------|-------|----------------|-------------|-------------|-----------------|--------------|--------------|
| RP11-23D11  | 80406  | 1248     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-85J5   | 24524  | 1217     | 9     | 8              | 0           | 0           | 1               | 0            | 0            |
| RP11-199N14 | 26290  | 1080     | 8     | 6              | 0           | 4           | 0.75            | 0            | 0.67         |
| CTC-247K5   | 65115  | 923      | 7     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-10I9   | 111466 | 1290     | 9     | 8              | 0           | 1           | 1               | 0            | 0.12         |
| RP11-195P3  | 80209  | 1140     | 8     | 7              | 5           | 0           | 0.88            | 0.71         | 0            |
| CTC-305I2   | 101400 | 968      | 7     | 7              | 0           | 0           | 0.88            | 0            | 0            |
| RP11-151D11 | 13082  | 2139     | 18    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-280I16 | 4408   | 1196     | 9     | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-102K7  | 101126 | 1159     | 8     | 8              | 5           | 0           | 1               | 0.62         | 0            |
| RP11-32H11  | 128242 | 1438     | 10    | 3              | 0           | 1           | 0.38            | 0            | 0.33         |
| RP11-63E13  | 66604  | 509      | 4     | 7              | 0           | 2           | 0.88            | 0            | 0.29         |
| RP11-245E5  | 22735  | 366      | 3     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-106O1  | 3649   | 2127     | 18    | 3              | 0           | 0           | 0.38            | 0            | 0            |
| RP11-232D21 | 48102  | 497      | 4     | 2              | 1           | 0           | 0.25            | 0.5          | 0            |
| RP11-102C11 | 33539  | 1503     | 11    | 8              | 1           | 1           | 1               | 0.12         | 0.12         |
| RP11-52C20  | 23944  | 773      | 6     | 7              | 1           | 0           | 0.88            | 0.14         | 0            |
| RP11-130J1  | 73109  | 2173     | 18    | 8              | 0           | 2           | 1               | 0            | 0.25         |
| RP11-217G11 | 56629  | 1536     | 11    | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-58P9   | 48061  | 794      | 6     | 8              | 1           | 0           | 1               | 0.12         | 0            |
| RP11-46I12  | 34302  | 2190     | 19    | 7              | 1           | 0           | 0.88            | 0.14         | 0            |