

## **High-Resolution Mapping for Essential Hypertension Using Microsatellite Markers**

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# High-Resolution Mapping for Essential Hypertension Using Microsatellite Markers

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**Abstract**—During the past decade, considerable efforts and resources have been devoted to elucidating the multiple genetic and environmental determinants responsible for hypertension and its associated cardiovascular diseases. The success of positional cloning, fine mapping, and linkage analysis based on whole-genome screening, however, has been limited in identifying multiple genetic determinants affecting diseases, suggesting that new research strategies for genome-wide typing may be helpful. Disease association (case–control) studies using microsatellite markers, distributed every 150 kb across the human genome, may have some advantages over linkage, candidate, and single nucleotide polymorphism typing methods in terms of statistical power and linkage disequilibrium for finding genomic regions harboring candidate disease genes, although it is not proven. We have carried out genome-wide mapping using 18 977 microsatellite markers in a Japanese population composed of 385 hypertensive patients and 385 normotensive control subjects. Pooled sample analysis was conducted in a 3-stage genomic screen of 3 independent case–control populations, and 54 markers were extracted from the original 18 977 microsatellite markers. As a final step, each single positive marker was confirmed by individual typing, and only 19 markers passed this test. We identified 19 allelic loci that were significantly different between the cases of essential hypertension and the controls. (*Hypertension*. 2007;49:446–452.)

**Key Words:** essential hypertension ■ genome-wide ■ association study ■ Japanese ■ new candidate regions

Hypertension is a leading risk factor for cerebrovascular disease, coronary heart disease, and renal failure.<sup>1</sup> It is the major cause of morbidity and mortality and also the third highest risk factor for lifetime burden worldwide.<sup>2,3</sup> Kearney et al<sup>4</sup> reported that there were 972 million hypertension patients in the world, accounting for 26.4% of the adult population in 2000, and predicted that this figure will increase to 1.56 billion patients (29.2%) by 2025. The present pandemic of cardiovascular diseases has been attributed largely to the high prevalence of hypertension, suggesting that more emphasis should be placed on the prevention, detection, and treatment of hypertension.

Elucidation of the genetic etiology of hypertension has been increasingly emphasized as important for a better understanding of the pathogenesis of this disease and for ultimately improving the prevention strategies, diagnostic tools, and therapy in the

new millennium.<sup>5</sup> Hypertension is one of the risk factors for coronary heart disease, which is a common complex human genetic disease, and its genetic variance accounts for 30% to 70% of the trait variance.<sup>6,7</sup> The sibling recurrent risk ratio of hypertension is reportedly to be 2 to 3.<sup>8</sup> Each of the hypertension-causing gene recurrent risk ratios is less than the aggregate sibling recurrent risk ratio. There are now many reports describing the results of genome-wide screens for genes controlling blood pressure (BP). The National Heart, Lung, and Blood Institute Genelink project website (<https://genelink.nhlbi.nih.gov>) lists the National Heart, Lung, and Blood Institute–supported genome scans for BP. The majority of these reports have described numerous chromosomal regions with suggestive evidence of linkage.<sup>9</sup> However, the application of linkage analysis to hypertension, with the exception of obvious Mendelian inheritance, has achieved only limited suc-

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cess thus far.<sup>10,11</sup> Since 2000,  $\geq 6$  large genome scans have been reported,<sup>12</sup> namely, an admixture mapping study,<sup>13</sup> a Medical Research Council Program-funded British Genetics of Hypertension Study,<sup>14</sup> the US National Institutes of Health-funded Family Blood Pressure Program studies,<sup>15–18</sup> the Victorian Family Heart Study,<sup>19</sup> the San Antonio Heart Study,<sup>20</sup> and the Quebec Family Study.<sup>21</sup> Except for the admixture mapping study, all of these studies were based on linkage analysis.

In many cases, complex diseases are complicated by genetic heterogeneity and small effects of each gene. In 1996, Risch and Merikangas reported<sup>22</sup> that numerous genetic effects in complex diseases were too weak to be identified by linkage analysis and could be better detected by genomic association studies. Thus, the new challenges to identify disease-predisposing variants in human genome research have resulted in approaches, such as the Hapmap project,<sup>23</sup> high-density single nucleotide polymorphism (SNP) analysis,<sup>24</sup> and microsatellite (MS) association analysis.<sup>25</sup> Disease association studies using MS markers distributed across the human genome every 100 to 150 kb have distinct advantages over linkage analysis, the candidate approach, and SNP typing in terms of linkage disequilibrium (LD).<sup>25</sup> The MS markers are highly polymorphic, showing a high degree of heterozygosity (on average,  $\approx 70\%$ ) and LD lengths in the 100- to 200-kb range.<sup>26–31</sup> As compared with MS markers, SNPs have a low degree of genetic polymorphism (biallelic) and have a shorter, by  $\approx 30$  kb, LD range, probably because of their older age. Varilo et al<sup>32</sup> reported that highly polymorphic MS markers can provide much greater power for detection of intermarker LD than can either single SNPs or SNP haplotypes on chromosomes 1q and 5q. Therefore, it is possible to carry out substantial whole genome association analysis using a smaller number of MS markers than SNPs (eg, tens of thousands of MS markers versus hundreds of thousands or millions of SNPs). Recently, the usefulness of the haplotype approach and haplotype-tagging SNPs from the HapMap project has been questioned.<sup>33</sup>

## Methods

### Subjects for MS Typing

A total of 425 (stage 1: 95; stage 2: 131; stage 3: 199) patients with essential hypertension and 467 (stage 1: 103; stage 2: 132; stage 3: 232) normotensive healthy individuals participated in this study. The number of subjects for pooled DNA typing was 95 versus 95 for stage 1, 120 versus 120 for stage 2, and 170 versus 170 for stage 3. After pooled DNA typing, individual typing for the same samples was performed. The difference in number in each stage was derived from the time of sample collection. It was aimed to collect 100 volunteers for each stage each in case and control subjects, but many more subjects were collected beyond our expectations. So, we made the most of all of the subjects to increase the statistical power. The subjects were of Japanese origin from Hokkaido, Tokyo, Kanagawa, Shiga, Osaka, Kyoto, and Ehime. The subjects for the stage 1 and stage 2 screens were recruited from the Millennium Genome Project, and the subjects for the stage 3 screen were recruited from Yokohama City University School of Medicine. The diagnosis of essential hypertension was made according to the guidelines of the Japanese Society of Hypertension (declared in 2000), which include a sitting systolic BP of  $>140$  mm Hg and/or diastolic BP of  $>90$  mm Hg on  $\geq 2$  occasions after the first medical examination. Furthermore, subjects in this study were selected as follows, as shown in Table 1. Our criteria were classification as moderate or severe hypertension.

**TABLE 1. Characteristics of Subjects**

Character	Hypertensive Patients	Normotensive Control Subjects
Gender	Male	Male
Age of onset	30 to 59	$\geq 50$
Family history	Within parents and siblings	None
Body mass index, kg/m <sup>2</sup>	$\leq 25$	$\leq 25$
BP, mm Hg	Systolic BP $\geq 160$ and/or diastolic BP $\geq 100$	Systolic BP $\leq 120$ and diastolic BP $\leq 80$ and no antihypertensive treatment

We obtained informed consent from all of the patients and healthy individuals whose DNA samples were used in the analyses. Our experimental procedures were approved by the relevant ethical committee in each participating university and center. All of the personal identities associated with medical information and blood samples were carefully eliminated and replaced with anonymous identities in each recruiting institution.

### Pooled DNA and Genotyping

Ninety-five subjects in stage 1, 120 in stage 2, and 170 in stage 3 were selected from each group (case and control subjects) based on the DNA quality and quantity for DNA pooling analysis. The DNA pooling method was adopted to bring down the cost and the technical burden linked to genotyping thousands of MSs without losing any significant amount of data.

The DNA pooling method for MS typing was carried out by making slight modifications<sup>34</sup> of the protocol of Collins et al.<sup>35</sup> The key factor in this methodology is the absolute equality of individual DNA quantities, so we used a highly accurate quantitative procedure to construct a pooled DNA template for PCR amplification.<sup>35</sup> This pool was composed of strictly measured DNA concentrations, extracted from 95 stage 1, 120 stage 2, and 170 stage 3 Japanese individuals. We checked each DNA concentration  $\geq 3$  times and equalized each DNA concentration by dilution. Multiple peak patterns in the pooled DNA showed the distribution of allele frequencies in the subjects.<sup>35</sup> The DNA pooling method enabled us to obtain the allele frequencies of MSs in pooled Japanese individuals by measuring the heights of multiple peaks and to apply this approach to an association study. The quality of the pooled DNA was confirmed by comparing the allelic distributions between individual and pooled typing results using 23 MS markers, unless there was the absence of any significant difference ( $P \leq 0.05$ ) in allele frequencies between pooled DNA typing and individual. This comparison of allele frequencies for the same allele was performed by Fisher's exact test.

DNA was extracted using a QIAamp DNA blood kit (Qiagen) under standardized conditions to prevent variation in DNA quality. This was followed by 0.8% agarose gel electrophoresis to check for DNA degradation and RNA contamination. After measurement of the optical density to check for protein contamination, the DNA concentration was determined through 3 successive measurements using the PicoGreen fluorescence assay (Molecular Probes). Standardized pipetting and aliquoting of the DNA samples were robotically performed using a Biomek 2000 and Multimek 96 (Beckman). The pooled DNA template for typing with  $2 \times 18\,977$  MS markers (first set: case subjects; second set: control subjects) was prepared immediately after DNA quantification. After the initial tests, the 18 977 PCR reaction mixtures containing all of the components except primers were prepared and then aliquoted into 96-well reaction plates and stored until use. The MS pooled typing and individual genotyping procedures after the PCR reaction were carried out according to standard protocols using ABI3700 and 3730 DNA analyzers (Applied Biosystems). The standardized preparations allowed the reproducibility and accuracy to be maintained for the pooled DNA typing throughout the experiment. Various kinds of

information, such as the peak positions and heights, were manually extracted by the PickPeak and MultiPeaks programs, developed by Applied Biosystems Japan, from the multipeak pattern in the chromatogram ABI fsa files.

In the first stage, 95 case and 95 control subjects were subjected to association analysis using all of the 18 977 markers. Among them, markers showing statistical significance of  $P < 0.05$  were subjected to the second stage with another 120 case subjects and 120 control subjects. The markers showing statistical significance of  $P < 0.05$  in the second screening were subjected to a third stage with another 170 case subjects and 170 control subjects. All of the positive markers that remained statistically significant ( $P < 0.05$ ) in the stage 3 screening were confirmed by individual genotyping using the same set of 385 case subjects and 385 control subjects as the final step.

### Marker Information

MS sequences were computationally detected from all of the chromosomes except for the Y chromosome (in 4 versions of the human genome draft sequence: Golden Path Jun 2004 to the National Center for Biotechnology Information build 35). At present, our laboratory has built 27 037 markers as a full set.<sup>25</sup>

In this study, we used 18 977 markers with an average spacing of 145.9 kb (Tables I and II, available online at <http://hyper.ahajournals.org>.) from 19 654 markers in the first built set. The other 678 markers were excluded because of problems with the PCR reaction and marker quality.

The MS markers were investigated for repeat polymorphisms in 200 healthy Japanese by using the DNA pooling method. Our criteria for selection of MS markers for the hypertension association study were dinucleotide repeats with  $>10$  repeats; tri-, tetra-, and pentanucleotide repeats with  $>5$  repeats; and polymorphic MS markers with heterozygosity of  $>30\%$  but not those with heterozygosity of  $>85\%$  to eliminate any unstable and highly mutated MS markers. We chose PCR primers that contained no SNPs in the sequences to prevent differential amplification. Seven PCR primer pairs of 54 MS markers for individual typing were redesigned to improve the efficiency of PCR (Table III). Detailed information on the 27 039 MS markers is available on the Japan Biological Information Research Center homepage (<http://www.jbirc.aist.go.jp/gdbs/>).

### Statistical Analysis

The measurements of the heights of multiple peaks in the pooled DNA were applied to association analysis. To calculate  $P$  values, we used 2 types of Fisher's exact test for  $2 \times 2$  contingency tables for each individual allele and  $2 \times m$  contingency tables for each locus, where  $m$  refers to the number of marker alleles observed in a population. The Markov chain/Monte Carlo simulation method was used to execute Fisher's exact test for the  $2 \times m$  contingency table. The simple "allelic" but not "genotype" association was presented for the  $2 \times 2$  contingency tables for MSs. These analyses were executed using the software package, AStat. The method of Pritchard and Rosenberg<sup>36</sup> was used for the detection of stratification in case and control populations using 23 MS markers. The Hardy-Weinberg test for allele frequency distributions at the MS loci was performed by  $P$  test for differentiation, as determined by GenePop 3.4. Other basic analyses were carried out using Microsoft Excel.

The authors had full access to the data and take responsibility for its integrity.

## Results

### Three-Stage Screening: Pooled DNA Typing

Before the 3-stage screenings, we verified spurious associations through the method of Pritchard and Rosenberg<sup>36</sup> using 23 randomly selected MS markers from each of chromosomes 1 to 22 and X, with an absence of any significant stratification in either the case or control populations (data not shown). This test is important to prevent spurious asso-

ciations by population stratifications, especially for late-onset diseases, such as essential hypertension.

We initially identified 54 markers as potential hypertension susceptibility loci by 3-stage screening of 3 independent case-control populations (stage 1: 95; stage 2: 120; stage 3: 170 patients with essential hypertension and normotensive healthy individuals; Table 2). Three-stage screenings were intended to sequentially replicate the results in the 3 independent sample populations and eliminate pseudopositive markers resulting from type I errors.<sup>37,38</sup>

The number of markers decreased from 18 977 to 1160 markers in the first screening, then to 284 markers in the second screening, and finally to 54 markers in the third screening. The significance ( $P < 0.05$ ) of the association of positive markers was assessed by the Fisher's exact test, using either  $2 \times 2$  or  $2 \times m$  ( $m$ =number of alleles) contingency tables. Both  $2 \times 2$  and  $2 \times m$  analysis were performed together at each marker. If either of the 2 had  $P < 0.05$ , the marker was judged as a positive marker. Finally, 54 markers significant in all of the screening sets were significant in the  $2 \times 2$  test, and some of the markers were significant in the  $2 \times m$  test. The concordance between the  $2 \times 2$  and  $2 \times m$  tests was relatively low (stage 1: 60%; stage 2: 64%; stage 3: 81%). All of the positive markers were checked by the Hardy-Weinberg test for allele frequency distributions at the MS loci, and then significant markers ( $P \leq 0.05$ ) in the Hardy-Weinberg test were excluded. The positive rates in the second and third screenings were higher than that in the first. This might be partially because of experimental artifacts of the pooled DNA method as reported by Sham et al<sup>39</sup> and Shaw et al.<sup>40</sup>

### Individual Typing

The results of pooled typing were presumptive, so we genotyped a total of 770 individuals (385 case subjects versus 385 control subjects) and reanalyzed the 54 markers in the 3-stage screening procedure. These individuals are the same individuals as used in pooled typing and were not from a new cohort. Ultimately, we reduced the number of positive markers from 54 to 19 loci by using individual genotyping in the genome-wide association study for hypertension (Table 2). All 19 of the markers were significant ( $P < 0.05$ ) by  $2 \times 2$  analysis, but only 3 markers were also significant ( $P < 0.05$ ) by  $2 \times m$  analysis. In addition, the odds ratios ranged from 0.13 to 1.8 (Table 2).

The 19 genomic loci were observed on chromosome 2, 3, 4, 6, 10, 13, 17, 18, 19, and 20 (Table 3). The observed and expected frequencies of each genotype for the 19 markers in the case and control subjects were in Hardy-Weinberg equilibrium (data not shown). In considering the LD range, the susceptibility genes for hypertension were estimated to reside in a 100- to 150-kb region from each marker. We have also provided a list of the genes that are known to be positioned closest to the centromeric and telomeric side of each marker (Table 3) to highlight the locations of the 19 positive markers. The chromosomal location of the 19 markers in our study (Table 3) was compared with those identified in previous studies (Table 4). Essentially, 3 chromosomal locations were found to overlap in comparison with other studies: chromosome locations 2p11.1-q12.3, 2p25.1, and 6q27.



**TABLE 2. Summary of the Phased Genome Screen by the DNA Method and Individual Typing**

Chromosome	First Screening			Second Screening		Third Screening		Individual Typing	
	No. of MS	No. of Positives	Positive Rate, %	No. of Positives	Positive Rate, %	No. of Positives	Positive Rate, %	No. of Positives	Positive Rate, %
1	1516	146	10	31	21	7	23	0	0
2	1847	112	6	29	26	5	17	3	60
3	1422	66	5	15	23	3	20	3	100
4	1157	69	6	13	19	7	54	2	29
5	1173	71	6	14	20	0	0	0	0
6	1204	89	7	22	25	7	32	1	14
7	1266	66	5	18	27	2	11	0	0
8	830	58	7	12	21	0	0	0	0
9	838	32	4	6	19	3	50	0	0
10	907	45	5	11	24	2	18	1	50
11	916	40	4	10	25	0	0	0	0
12	684	25	4	6	24	0	0	0	0
13	609	32	5	11	34	2	18	2	100
14	571	29	5	6	21	1	17	0	0
15	458	34	7	9	26	2	22	0	0
16	508	25	5	9	36	0	0	0	0
17	495	42	8	17	40	5	29	4	80
18	539	27	5	8	30	2	25	1	50
19	358	33	9	8	24	3	38	1	33
20	430	23	5	7	30	3	43	1	33
21	260	15	6	2	13	0	0	0	0
22	228	16	7	5	31	0	0	0	0
X	756	64	8	15	23	0	0	0	0
Y	5	1	20	0	0	0	0	0	0
Total	18,977	1160	6	284	24	54	19	19	35

*P* value<0.05 was set at statistical significance by Fisher's test for the 2×2 or 2×*m* contingency table. The positive rates represented the rate of the markers, which were positive in the 2×2 or the 2×*m* analysis, to analyzed 18 977 (first), 1160 (second), and 284 markers (third).

Most of the 35 markers that were eliminated by individual typing after the 3-stage screening procedure may have been experimental artifacts or pseudopositive markers because of the DNA pooling method, PCR assay conditions, faulty peak heights during electrophoresis, PCR ghost peaks because of dissociation of labeled fluorescent reagents from a primer oligonucleotide, complications resulting from stutter, and additional nucleotide bands inherent to a particular MS.

## Discussion

### High-Density MS Markers

We conducted a 3-stage genome-wide scan of 3 independent case-control populations by an association test using 18 977 MS markers to identify susceptible genes for essential hypertension. In this study, we used 18 977 markers with an average spacing of 145.9 kb as the first built set (Tables I and II). Based on recent knowledge, the average length of LD between the disease-susceptible SNPs and the nearby MS alleles is  $\geq 100$  kb.<sup>26–31</sup> In other words, if the disease-susceptible SNPs are harbored between 2 neighboring MS markers at an interval  $\leq 200$  kb, LD between the disease-susceptible SNPs and either

of the nearby MS will be proved. The use of average spacing of genetic markers across 100 to 200 kb of the entire genome is the best practical solution in genome-wide association analysis before availability of a genome-wide LD map, because the LD pattern varies between different regions of the human genome depending on several factors, such as allele frequency, mutation, and recombination.<sup>33</sup> Therefore, our first step for genome-wide analysis was to collect enough MS markers ( $> 18\,000$  MS, 1 MS at every 150 kb) to cover the euchromatic area ( $\approx 90\%$ ) of the human genome (3 giga base;  $3 \times 10^9$  kb  $\times 0.9/150$  kb = 18 000). The remaining part of the genome was mostly heterochromatin restricted mainly to centromeres and telomeres, rich in repetitive sequences and believed to lack expressed genes. This 150-kb spacing of MS markers would enable us to assure an average 75-kb LD interval, which was presumed to detect the presence of disease-susceptible loci flanked by 2 neighboring MS markers across the whole genome.

Although 54 MS markers were found significant in all 3 stages of the pooling experiments, only 19 (35%) of them were confirmed to be significant when individual typing was performed. This indicates the importance of performing

**TABLE 3. Nineteen Positive Microsatellite Markers From Individual Typing**

Markers	Cytobands	No. of Alleles	Positive Alleles	Allele Frequencies		<i>P</i>		Odds Ratio	95% CI	Nearest Gene Name
				Case	Control	2×2	2× <i>m</i>			
HUMUT617	6q27	5	1	0.155	0.215	0.00287	0.02289	1.54	1.08 to 2.21	SMOC2
D2S0226i	2q35	16	1	0.096	0.058	0.00523	0.12651	1.73	1.18 to 2.55	XRCC5
D17S0287i	17q21.33	8	1	0.390	0.323	0.00746	0.08458	1.34	1.09 to 1.65	CROP
D17S0351i	17q24.3	10	4	0.146	0.198	0.00812	0.00229	0.69	0.53 to 0.90	KCNJ16
D19S0134i	19p13.2	28	2	0.070	0.040	0.01212	0.06104	1.80	1.14 to 2.84	ZNF358
D2S0208i	2q11.2	9	1	0.224	0.174	0.01468	0.06679	1.38	1.07 to 1.77	CHST10
D13S0183i	13q31.3	11	2	0.230	0.179	0.01545	0.13986	1.37	1.07 to 1.76	Unknown
D4S0818i	4p16.1	17	1	0.112	0.153	0.01950	0.35114	0.70	0.52 to 0.94	SORCS2
D2S0949i	2p25.1	11	2	0.105	0.070	0.02343	0.09465	1.54	1.08 to 2.21	LPIN1
D20S885	20p11.23	17	1	0.123	0.165	0.02403	0.55390	0.71	0.53 to 0.95	Unknown
D10S0517i	10q26.13	15	1	0.223	0.177	0.02542	0.10058	1.33	1.04 to 1.72	TACC2
D17S0231i	17p13.1	8	1	0.615	0.558	0.02608	0.18437	1.26	1.03 to 1.54	Unknown
D3S0865i	3p21.31	13	1	0.245	0.199	0.03162	0.27624	1.31	1.03 to 1.66	XCR1
D3S1129i	3p22.1	26	1	0.149	0.112	0.03273	0.43997	1.39	1.03 to 1.88	Unknown
D3S0046i	3p26.1	19	1	0.001	0.010	0.03862	0.59448	0.13	0.02 to 0.73	GRM7
D17S790	17q22	14	1	0.026	0.047	0.04028	0.20889	0.54	0.31 to 0.94	Unknown
D18S0390i	18q22.1	17	2	0.140	0.179	0.04227	0.11569	0.75	0.57 to 0.98	Unknown
G09023	13q33.3	8	1	0.204	0.249	0.04245	0.03990	0.78	0.61 to 0.99	Unknown
D4S0370i	4q34.4	18	1	0.052	0.078	0.04780	0.54383	0.65	0.43 to 0.98	Unknown

individual typing after all of the pooling experiments to validate the pooled frequency estimates.

### Essential Hypertension Susceptibility Genes

We have identified 19 MS loci associated with essential hypertension and compared our findings with those of 6

**TABLE 4. Summary of Genome-Wide Scan Mapping Analyses on Blood Pressure**

References	Chromosome	Ethnicity
Zhu et al. <sup>13</sup>	<u>2p25.1</u> , 3q13.31-33, 6q24, 21q21	Admixture
Caulfield et al. <sup>14</sup>	2q24.1, 5q13.1, <u>6q27</u> , 9q34.11	White
Rao et al. <sup>15</sup>	2p	Blacks and whites
Kardia et al. <sup>16</sup>	No evidence	Blacks and non-Hispanic whites
Thiel et al. <sup>17</sup>	1	Blacks and whites
Ranade et al. <sup>18</sup>	10p	Chinese and Japanese origin
Harrap et al. <sup>19</sup>	1p34.3-1p31, 4q21-28, 16p13.1-16p12, Xp11.4-Xq11	White
Atwood et al. <sup>20</sup>	2p11.2, 2q12.2, 8q24.3, 18q23, 21q22.13	Mexican Americans
Rice et al. <sup>21</sup>	1p22.3-p13.1, <u>2p11.1-q12.3</u> , 3q13.31-q26.32, 5p15.2-p12, 7q32.1-q36.1, 8q21.11, 10p14, 12p13.33, 14q11.2-q12, 19p13.3, 22q13.1-q13.2	White

Overlapped locations mapped by this study in comparison with previous studies are underlined.

previous large-scale genome-wide studies that are summarized in Table 4. The loci of linkage analysis in the previous 9 reports were too wide ( $\geq 5$  megabases) to identify and speculate about disease susceptibility genes. Three of the 19 identified regions in our study overlapped with a region identified in other races (Table 4). The studies in Table 4, except for the admixture mapping study,<sup>13</sup> were linkage studies and suggest a much broader region than our results. For example, we found that the positive MS locus D2S0949i is located on cytoband 2p25.1, and this finding is in accordance with the admixture mapping results obtained by Zhu et al,<sup>13</sup> who found evidence for linkage with a marker on chromosome 2p25.1. This concordance between 2 different studies suggests that chromosome 2p25.1 contains an unknown candidate gene for essential hypertension. Interestingly, our MS marker is located within the LPIN1 gene sequence (NM 145693.1), and this is a candidate gene for human lipodystrophy, a disease characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance. There have been no reports to indicate that LPIN1 is a candidate gene for essential hypertension, but lipin expression is important for metabolic homeostasis.<sup>40</sup> In consideration that hypertension is an associated factor in the metabolic syndrome characterized by obesity, hypertriglyceridemia, and insulin resistance,<sup>41,42</sup> LPIN1 deserves to be studied as a new candidate gene.

Another significant MS marker, HUMUT617 on 6q27, is in the same cytoband position reported by Caulfield et al<sup>14</sup> Our marker was located within the SMOC2 gene sequence (NM\_022138) that codes for a modular extracellular calcium-binding protein<sup>43</sup> and a smooth muscle-associated protein upregulated during neointima formation.<sup>44</sup> There have been no previous reports suggesting any connection between SMOC2

and BP, but this gene may be involved in the progression of atherosclerosis in the aorta.<sup>44</sup>

## Perspectives

We performed an association analysis of essential hypertension using a high-density set of polymorphic MS markers with original, multistep methodology. The outcome was a rapid and efficient path to detect genomic susceptibility loci for a highly complex disorder. MS markers basically play a role as location markers for regions containing susceptibility and protective genes. Rarely, MS markers may be the causative variance themselves. The next step is to identify susceptibility and protective genes in the 19 narrow regions by SNP, LD block, and haplotype analysis. It is also important to replicate these results in different subjects, ethnic groups, and a larger number of samples. The future successful accomplishment of such analysis will also open the door to investigating the etiology of other multifactorial disorders, including common diseases such as bronchial asthma, type 2 diabetes mellitus, obesity, arteriosclerosis, schizophrenia, and psoriasis.

BP is influenced by nongenetic factors, such as salt intake. In the present study, because we did not focus on salt-induced hypertension, the amounts of urinary excretion of sodium were not examined. It might be noteworthy to perform studies specializing in genes related to salt-induced hypertension.

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## Disclosures

None.

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Table I. Average spacing of microsatellites

Chromosome	Number of markers	Average spacing (kb)
1	1,615	132.9
2	1,894	114.6
3	1,522	119.0
4	1,184	128.1
5	1,219	133.5
6	1,265	137.0
7	1,288	116.0
8	926	133.5
9	852	130.8

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10	924	136.2
11	942	144.5
12	699	162.2
13	622	152.5
14	575	150.5
15	468	158.9
16	513	139.5
17	513	144.7
18	550	131.2
19	370	141.3
20	438	135.7
21	268	129.1

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22	233	144.3
X	774	162.7
<hr/>		
Total	19,654	

The average spacing between MS markers was calculated in the euchromatin area of the human genome.

Microsatellite markers were mapped on the NCBI build 35.

Table II. List of 18,977 Microsatellites and their Accession Numbers

D10S0001i	AB129559.1	D14S0316i	AB145757.1	D1S0879i	AB142804.1
D10S0002i	AB129562.1	D14S0317i	AB145758.1	D1S0880i	AB142805.1
D10S0003i	AB129573.1	D14S0318i	AB145759.1	D1S0881i	AB129018.1
D10S0004i	AB129577.1	D14S0319i	AB145760.1	D1S0883i	AB142807.1
D10S0006i	AB129644.1	D14S0320i	AB145761.1	D1S0884i	AB129295.1
D10S0007i	AB129895.1	D14S0321i	AB145762.1	D1S0885i	AB142808.1
D10S0008i	AB129910.1	D14S0322i	AB145763.1	D1S0886i	AB142809.1
D10S0009i	AB129915.1	D14S0323i	AB145764.1	D1S0887i	AB142810.1
D10S0010i	AB129926.1	D14S0324i	AB145765.1	D1S0888i	AB142811.1
D10S0011i	AB129927.1	D14S0325i	AB145767.1	D1S0889i	AB142812.1



D10S0012i	AB129932.1	D14S0326i	AB145768.1	D1S0890i	AB142813.1
D10S0013i	AB129933.1	D14S0327i	AB145769.1	D1S0891i	AB142814.1
D10S0014i	AB129939.1	D14S0328i	AB145770.1	D1S0892i	AB142815.1
D10S0015i	AB129944.1	D14S0330i	AB145772.1	D1S0893i	AB142816.1
D10S0016i	AB129947.1	D14S0331i	AB145773.1	D1S0894i	AB142817.1
D10S0017i	AB130672.1	D14S0332i	AB145774.1	D1S0895i	AB142818.1
D10S0018i	AB130675.1	D14S0333i	AB145775.1	D1S0896i	AB142819.1
D10S0019i	AB130677.1	D14S0334i	AB145776.1	D1S0898i	AB142820.1
D10S0020i	AB130678.1	D14S0335i	AB145777.1	D1S0899i	AB142821.1
D10S0021i	AB130680.1	D14S0336i	AB145778.1	D1S0900i	AB129296.1
D10S0022i	AB130685.1	D14S0337i	AB145779.1	D1S0901i	AB142822.1
D10S0023i	AB130687.1	D14S0338i	AB145766.1	D1S0902i	AB142823.1

D10S0024i	AB130688.1	D14S0339i	AB145780.1	D1S0903i	AB142824.1
D10S0025i	AB130689.1	D14S0340i	AB145781.1	D1S0904i	AB142825.1
D10S0026i	AB130692.1	D14S0341i	AB145782.1	D1S0905i	AB142826.1
D10S0027i	AB130695.1	D14S0342i	AB145783.1	D1S0906i	AB142827.1
D10S0028i	AB130701.1	D14S0343i	AB145784.1	D1S0907i	AB142828.1
D10S0029i	AB130703.1	D14S0344i	AB145785.1	D1S0908i	AB142829.1
D10S0030i	AB130708.1	D14S0345i	AB145786.1	D1S0909i	AB129297.1
D10S0031i	AB130712.1	D14S0346i	AB145787.1	D1S0910i	AB142830.1
D10S0032i	AB133482.1	D14S0347i	AB145788.1	D1S0911i	AB142831.1
D10S0033i	AB133485.1	D14S0348i	AB145789.1	D1S0912i	AB142832.1
D10S0034i	AB133486.1	D14S0349i	AB145790.1	D1S0914i	AB142834.1
D10S0035i	AB133487.1	D14S0350i	AB145791.1	D1S0915i	AB142835.1

D10S0037i	AB133492.1	D14S0351i	AB145792.1	D1S0916i	AB142836.1
D10S0038i	AB133494.1	D14S0352i	AB145793.1	D1S0917i	AB142837.1
D10S0039i	AB133495.1	D14S0353i	AB145794.1	D1S0918i	AB142838.1
D10S0040i	AB133502.1	D14S0354i	AB145795.1	D1S0919i	AB142839.1
D10S0041i	AB133505.1	D14S0355i	AB145796.1	D1S0920i	AB142840.1
D10S0042i	AB133506.1	D14S0356i	AB145797.1	D1S0921i	AB142841.1
D10S0043i	AB133507.1	D14S0357i	AB145798.1	D1S0924i	AB142844.1
D10S0044i	AB133508.1	D14S0358i	AB129368.1	D1S0925i	AB142845.1
D10S0045i	AB133510.1	D14S0359i	AB145799.1	D1S0926i	AB142846.1
D10S0046i	AB133513.1	D14S0360i	AB145800.1	D1S0927i	AB142847.1
D10S0047i	AB133517.1	D14S0361i	AB145801.1	D1S0928i	AB142848.1
D10S0049i	AB133522.1	D14S0362i	AB145803.1	D1S0929i	AB142849.1

D10S0050i	AB133527.1	D14S0363i	AB145804.1	D1S0930i	AB142850.1
D10S0051i	AB133528.1	D14S0364i	AB145805.1	D1S0933i	AB142853.1
D10S0052i	AB133529.1	D14S0365i	AB145806.1	D1S0934i	AB142854.1
D10S0053i	AB133530.1	D14S0366i	AB145807.1	D1S0935i	AB142855.1
D10S0054i	AB133534.1	D14S0367i	AB145808.1	D1S0936i	AB129298.1
D10S0055i	AB133535.1	D14S0368i	AB145809.1	D1S0937i	AB142856.1
D10S0057i	AB133538.1	D14S0369i	AB145810.1	D1S0938i	AB142857.1
D10S0058i	AB133539.1	D14S0370i	AB145811.1	D1S0939i	AB142858.1
D10S0059i	AB133541.1	D14S0371i	AB145812.1	D1S0940i	AB142859.1
D10S0060i	AB133545.1	D14S0372i	AB145813.1	D1S0941i	AB142860.1
D10S0062i	AB133549.1	D14S0373i	AB145814.1	D1S0942i	AB142861.1
D10S0063i	AB133550.1	D14S0374i	AB145815.1	D1S0943i	AB142862.1



D10S0064i	AB133551.1	D14S0375i	AB146000.1	D1S0944i	AB142863.1
D10S0065i	AB133553.1	D14S0376i	AB146005.1	D1S0945i	AB142864.1
D10S0066i	AB133554.1	D14S0377i	AB146212.1	D1S0946i	AB142865.1
D10S0067i	AB133555.1	D14S0379i	AB146214.1	D1S0947i	AB142866.1
D10S0068i	AB133557.1	D14S0380i	AB146221.1	D1S0948i	AB129299.1
D10S0069i	AB133558.1	D14S0382i	AB146223.1	D1S0949i	AB142867.1
D10S0070i	AB133562.1	D14S0383i	AB146229.1	D1S0950i	AB142868.1
D10S0071i	AB133564.1	D14S0384i	AB146236.1	D1S0951i	AB142870.1
D10S0072i	AB133567.1	D14S0386i	AB146248.1	D1S0952i	AB142871.1
D10S0073i	AB133568.1	D14S0387i	AB146249.1	D1S0953i	AB142872.1
D10S0074i	AB133569.1	D14S0388i	AB146254.1	D1S0954i	AB142873.1
D10S0075i	AB133570.1	D14S0389i	AB146255.1	D1S0955i	AB142874.1

D10S0076i	AB133571.1	D14S0391i	AB146880.1	D1S0956i	AB142875.1
D10S0077i	AB133572.1	D14S0392i	AB146883.1	D1S0958i	AB129300.1
D10S0078i	AB133573.1	D14S0393i	AB146891.1	D1S0959i	AB142877.1
D10S0079i	AB133574.1	D14S0394i	AB129389.1	D1S0960i	AB142878.1
D10S0080i	AB133575.1	D14S0395i	AB146907.1	D1S0961i	AB142879.1
D10S0081i	AB133576.1	D14S0396i	AB146919.1	D1S0963i	AB142881.1
D10S0082i	AB133577.1	D14S0397i	AB146922.1	D1S0964i	AB142883.1
D10S0083i	AB133579.1	D14S0398i	AB146923.1	D1S0965i	AB142884.1
D10S0084i	AB133580.1	D14S0399i	AB146930.1	D1S0966i	AB142885.1
D10S0085i	AB133581.1	D14S0400i	AB146933.1	D1S0967i	AB129301.1
D10S0086i	AB133583.1	D14S0401i	AB146934.1	D1S0968i	AB142886.1
D10S0087i	AB133584.1	D14S0402i	AB146943.1	D1S0969i	AB142887.1

D10S0088i	AB133586.1	D14S0403i	AB146936.1	D1S0970i	AB142888.1
D10S0089i	AB133595.1	D14S0404i	AB146951.1	D1S0971i	AB142889.1
D10S0090i	AB129118.1	D14S1000	Z52777	D1S0972i	AB142890.1
D10S0091i	AB133596.1	D14S1001	Z52887	D1S0974i	AB142892.1
D10S0092i	AB133598.1	D14S1002	Z52905	D1S0975i	AB142893.1
D10S0093i	AB133600.1	D14S1003	Z51115	D1S0976i	AB142894.1
D10S0094i	AB133602.1	D14S1005	Z52936	D1S0977i	AB142895.1
D10S0095i	AB129119.1	D14S1006	Z52976	D1S0978i	AB142896.1
D10S0096i	AB133544.1	D14S1007	Z53040	D1S0979i	AB142897.1
D10S0097i	AB133608.1	D14S1008	Z53047	D1S0980i	AB142899.1
D10S0098i	AB133611.1	D14S1011	Z53145	D1S0981i	AB142900.1
D10S0099i	AB133615.1	D14S1012	Z53281	D1S0982i	AB142901.1

D10S0100i	AB133616.1	D14S1014	Z53434	D1S0983i	AB142902.1
D10S0101i	AB133620.1	D14S1015	Z51181	D1S0987i	AB142907.1
D10S0102i	AB133590.1	D14S1018	Z53515	D1S0988i	AB142910.1
D10S0103i	AB133621.1	D14S1021	Z53628	D1S0989i	AB142911.1
D10S0104i	AB133622.1	D14S1022	Z53637	D1S0990i	AB142912.1
D10S0105i	AB133627.1	D14S1023	Z53641	D1S0991i	AB142913.1
D10S0106i	AB133630.1	D14S1025	Z53698	D1S0992i	AB142914.1
D10S0107i	AB133632.1	D14S1027	Z53732	D1S0993i	AB142915.1
D10S0108i	AB133634.1	D14S1028	Z53770	D1S0994i	AB142917.1
D10S0109i	AB133636.1	D14S1029	Z51223	D1S0995i	AB142918.1
D10S0110i	AB133637.1	D14S1031	Z53883	D1S0996i	AB142919.1
D10S0111i	AB133638.1	D14S1032	Z53884	D1S0998i	AB142921.1



D10S0112i	AB133645.1	D14S1033	Z53890	D1S0999i	AB142922.1
D10S0113i	AB133646.1	D14S1034	Z53898	D1S1000i	AB142923.1
D10S0114i	AB133649.1	D14S1037	Z53992	D1S1001i	AB142924.1
D10S0115i	AB133650.1	D14S1039	Z50919	D1S1002i	AB142925.1
D10S0116i	AB133651.1	D14S1040	Z51315	D1S1003i	AB143497.1
D10S0117i	AB133652.1	D14S1041	Z50924	D1S1004i	AB145315.1
D10S0118i	AB133656.1	D14S1042	Z50925	D1S1005i	AB145317.1
D10S0119i	AB133658.1	D14S1044	Z51387	D1S1006i	AB145318.1
D10S0120i	AB133661.1	D14S1045	Z51391	D1S1008i	AB145320.1
D10S0121i	AB133662.1	D14S1046	Z51431	D1S1009i	AB145321.1
D10S0122i	AB133663.1	D14S1047	Z51433	D1S1010i	AB145322.1
D10S0123i	AB133664.1	D14S1048	Z51445	D1S1011i	AB145323.1

D10S0124i	AB133667.1	D14S1049	Z51462	D1S1012i	AB145324.1
D10S0125i	AB133668.1	D14S1050	Z51466	D1S1013i	AB145325.1
D10S0126i	AB133669.1	D14S1051	Z51483	D1S1014i	AB145326.1
D10S0127i	AB133671.1	D14S1052	Z50941	D1S1015i	AB145327.1
D10S0128i	AB133673.1	D14S1053	Z51523	D1S1016i	AB145328.1
D10S0129i	AB133677.1	D14S1054	Z51535	D1S1017i	AB145329.1
D10S0130i	AB133679.1	D14S1055	Z51551	D1S1019i	AB145331.1
D10S0131i	AB133665.1	D14S1056	Z51552	D1S1020i	AB145332.1
D10S0132i	AB133684.1	D14S1058	Z51656	D1S1021i	AB145333.1
D10S0133i	AB133686.1	D14S1060	Z51690	D1S1022i	AB145334.1
D10S0134i	AB133687.1	D14S1061	Z51730	D1S1023i	AB145335.1
D10S0135i	AB136070.1	D14S1063	Z50969	D1S1024i	AB145336.1

D10S0136i	AB136754.1	D14S1064	Z51781	D1S1025i	AB145337.1
D10S0137i	AB136755.1	D14S1067	Z51837	D1S1026i	AB145338.1
D10S0138i	AB136756.1	D14S1068	Z50980	D1S1027i	AB145339.1
D10S0139i	AB136759.1	D14S1069	Z50982	D1S1028i	AB145340.1
D10S0140i	AB136760.1	D14S1070	Z51975	D1S1029i	AB145341.1
D10S0141i	AB136761.1	D14S1071	Z52018	D1S1030i	AB145342.1
D10S0142i	AB136762.1	D14S252	Z23576	D1S1031i	AB145343.1
D10S0143i	AB136763.1	D14S254	Z23629	D1S1032i	AB145985.1
D10S0144i	AB136765.1	D14S256	Z23680	D1S1033i	AB145972.1
D10S0145i	AB136766.1	D14S257	Z23686	D1S1034i	AB145986.1
D10S0147i	AB136768.1	D14S258	Z23692	D1S1035i	AB145989.1
D10S0148i	AB136769.1	D14S259	Z23696	D1S1037i	AB145993.1

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D10S0149i	AB136770.1	D14S260	Z23741	D1S1038i	AB145995.1
D10S0150i	AB136771.1	D14S261	Z23749	D1S1039i	AB145996.1
D10S0151i	AB136772.1	D14S262	Z23756	D1S1040i	AB145999.1
D10S0152i	AB136773.1	D14S264	Z23348	D1S1041i	AB146009.1
D10S0153i	AB136774.1	D14S267	Z23865	D1S1042i	AB146013.1
D10S0154i	AB136775.1	D14S268	Z23878	D1S1043i	AB146095.1
D10S0155i	AB136776.1	D14S269	Z23897	D1S1044i	AB146096.1
D10S0156i	AB136777.1	D14S270	Z23937	D1S1045i	AB146097.1
D10S0157i	AB136778.1	D14S275	Z24107	D1S1046i	AB146101.1
D10S0158i	AB137130.1	D14S278	Z24178	D1S1047i	AB146102.1
D10S0159i	AB137131.1	D14S279	Z24211	D1S1048i	AB146103.1
D10S0160i	AB137134.1	D14S281	Z24282	D1S1049i	AB146104.1



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D10S0161i	AB137135.1	D14S282	Z24306	D1S1051i	AB146111.1
D10S0162i	AB137136.1	D14S283	Z24322	D1S1052i	AB146112.1
D10S0163i	AB137139.1	D14S285	Z24348	D1S1053i	AB146113.1
D10S0164i	AB137140.1	D14S286	Z24396	D1S1054i	AB146114.1
D10S0165i	AB137141.1	D14S288	Z24412	D1S1055i	AB146119.1
D10S0166i	AB137142.1	D14S292	Z24616	D1S1056i	AB146120.1
D10S0167i	AB137145.1	D14S297	G09058	D1S1057i	AB146126.1
D10S0168i	AB137146.1	D14S298	G09048	D1S1058i	AB146127.1
D10S0169i	AB137149.1	D14S584	G09640	D1S1059i	AB146128.1
D10S0170i	AB137150.1	D14S588	G07885	D1S1060i	AB146134.1
D10S0171i	AB129176.1	D14S594	G09300	D1S1061i	AB146139.1
D10S0172i	AB137151.1	D14S599	G09034	D1S1062i	AB146147.1

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D10S0173i	AB137153.1	D14S600	G08784	D1S1063i	AB146148.1
D10S0174i	AB137155.1	D14S603	G09043	D1S1064i	AB146149.1
D10S0175i	AB137156.1	D14S605	G09046	D1S1065i	AB146150.1
D10S0176i	AB137144.1	D14S607	G09099	D1S1066i	AB129386.1
D10S0177i	AB137157.1	D14S608	G09052	D1S1067i	AB146716.1
D10S0178i	AB137158.1	D14S609	G09110	D1S1068i	AB146717.1
D10S0179i	AB137159.1	D14S61	Z16439	D1S1069i	AB146718.1
D10S0180i	AB137160.1	D14S610	G09057	D1S1070i	AB146719.1
D10S0181i	AB137162.1	D14S611	G09059	D1S1071i	AB146720.1
D10S0182i	AB137163.1	D14S614	G09061	D1S1072i	AB146721.1
D10S0183i	AB137164.1	D14S615	G09063	D1S1073i	AB146722.1
D10S0184i	AB137165.1	D14S617	G09073	D1S1074i	AB146723.1

D10S0185i	AB137166.1	D14S618	G09923	D1S1075i	AB146724.1
D10S0186i	AB137167.1	D14S62	Z16446	D1S1076i	AB146725.1
D10S0187i	AB137168.1	D14S63	Z16496	D1S1077i	AB146726.1
D10S0188i	AB137170.1	D14S64	Z16540	D1S1078i	AB146727.1
D10S0189i	AB137171.1	D14S65	Z16553	D1S1079i	AB146728.1
D10S0190i	AB137173.1	D14S66	Z16587	D1S1080i	AB146729.1
D10S0192i	AB137176.1	D14S71	Z16844	D1S1081i	AB146730.1
D10S0193i	AB137177.1	D14S72	Z16878	D1S1082i	AB146731.1
D10S0194i	AB137178.1	D14S73	Z16906	D1S1083i	AB146732.1
D10S0195i	AB137179.1	D14S75	Z16978	D1S1084i	AB146734.1
D10S0196i	AB137182.1	D14S77	Z16997	D1S1085i	AB146735.1
D10S0197i	AB137183.1	D14S78	Z17050	D1S1086i	AB146736.1

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D10S0198i	AB137184.1	D14S80	Z17096	D1S1087i	AB146737.1
D10S0199i	AB137185.1	D14S973	Z52080	D1S1088i	AB146738.1
D10S0200i	AB137186.1	D14S974	Z52089	D1S1089i	AB146739.1
D10S0201i	AB137187.1	D14S975	Z51012	D1S1090i	AB146740.1
D10S0203i	AB137189.1	D14S977	Z52118	D1S1092i	AB146742.1
D10S0204i	AB137190.1	D14S978	Z52148	D1S1093i	AB146743.1
D10S0205i	AB137191.1	D14S980	Z52244	D1S1094i	AB146744.1
D10S0206i	AB137193.1	D14S981	Z52300	D1S1095i	AB146745.1
D10S0207i	AB137194.1	D14S982	Z52332	D1S1096i	AB146746.1
D10S0208i	AB137195.1	D14S983	Z51042	D1S1097i	AB146747.1
D10S0209i	AB137196.1	D14S985	Z52362	D1S1098i	AB146748.1
D10S0210i	AB137198.1	D14S986	Z52389	D1S1099i	AB146749.1

D10S0211i	AB137199.1	D14S988	Z52409	D1S1100i	AB146750.1
D10S0212i	AB137200.1	D14S990	Z52549	D1S1101i	AB146751.1
D10S0213i	AB137201.1	D14S991	Z52565	D1S1102i	AB146752.1
D10S0214i	AB137202.1	D14S994	Z52608	D1S1103i	AB146753.1
D10S0215i	AB137203.1	D15S0001i	AB129594.1	D1S1104i	AB146754.1
D10S0216i	AB137205.1	D15S0002i	AB130734.1	D1S1105i	AB146755.1
D10S0217i	AB137206.1	D15S0003i	AB134308.1	D1S1106i	AB146756.1
D10S0218i	AB137207.1	D15S0004i	AB134319.1	D1S1107i	AB146757.1
D10S0220i	AB137209.1	D15S0005i	AB134332.1	D1S1108i	AB146758.1
D10S0221i	AB137210.1	D15S0006i	AB134339.1	D1S1109i	AB146759.1
D10S0222i	AB137211.1	D15S0007i	AB134344.1	D1S1110i	AB146760.1
D10S0223i	AB137212.1	D15S0008i	AB134345.1	D1S1111i	AB146733.1

D10S0224i	AB137214.1	D15S0009i	AB134351.1	D1S1112i	AB146761.1
D10S0225i	AB137217.1	D15S0010i	AB134352.1	D1S1113i	AB146762.1
D10S0226i	AB137218.1	D15S0012i	AB136784.1	D1S1114i	AB146763.1
D10S0227i	AB137219.1	D15S0013i	AB136787.1	D1S1116i	AB146765.1
D10S0228i	AB137220.1	D15S0014i	AB136789.1	D1S1117i	AB146766.1
D10S0229i	AB137221.1	D15S0015i	AB136792.1	D1S1118i	AB146767.1
D10S0231i	AB137224.1	D15S0016i	AB136795.1	D1S1119i	AB146768.1
D10S0232i	AB137225.1	D15S0017i	AB136796.1	D1S1120i	AB146769.1
D10S0233i	AB137226.1	D15S0018i	AB136799.1	D1S1121i	AB146770.1
D10S0234i	AB137227.1	D15S0019i	AB137382.1	D1S1122i	AB146771.1
D10S0235i	AB137228.1	D15S0020i	AB137383.1	D1S1123i	AB146772.1
D10S0236i	AB137230.1	D15S0021i	AB137384.1	D1S1124i	AB146773.1

D10S0237i	AB137232.1	D15S0022i	AB137386.1	D1S1125i	AB146774.1
D10S0238i	AB129003.1	D15S0023i	AB137387.1	D1S1126i	AB146775.1
D10S0239i	AB137233.1	D15S0025i	AB137389.1	D1S1127i	AB146776.1
D10S0240i	AB137234.1	D15S0026i	AB137390.1	D1S1128i	AB146777.1
D10S0241i	AB137235.1	D15S0027i	AB137392.1	D1S1129i	AB129387.1
D10S0242i	AB137236.1	D15S0028i	AB137393.1	D1S1130i	AB146778.1
D10S0243i	AB137237.1	D15S0029i	AB137394.1	D1S1131i	AB146779.1
D10S0244i	AB137238.1	D15S0030i	AB137396.1	D1S1132i	AB146780.1
D10S0245i	AB137239.1	D15S0031i	AB137397.1	D1S1133i	AB146781.1
D10S0246i	AB137240.1	D15S0032i	AB137399.1	D1S1134i	AB146782.1
D10S0247i	AB137241.1	D15S0033i	AB137400.1	D1S1137i	AB146785.1
D10S0248i	AB137242.1	D15S0034i	AB137401.1	D1S1138i	AB146786.1

D10S0249i	AB137243.1	D15S0035i	AB137402.1	D1S1139i	AB146787.1
D10S0250i	AB137244.1	D15S0036i	AB137403.1	D1S1140i	AB146788.1
D10S0251i	AB137245.1	D15S0037i	AB137404.1	D1S1141i	AB146789.1
D10S0252i	AB137247.1	D15S0038i	AB137406.1	D1S1142i	AB146790.1
D10S0253i	AB137248.1	D15S0039i	AB137407.1	D1S1143i	AB146791.1
D10S0254i	AB137251.1	D15S0040i	AB137409.1	D1S1144i	AB129388.1
D10S0255i	AB137252.1	D15S0041i	AB137410.1	D1S1145i	AB146792.1
D10S0256i	AB137253.1	D15S0042i	AB137411.1	D1S1146i	AB146793.1
D10S0257i	AB137255.1	D15S0044i	AB137414.1	D1S1147i	AB146794.1
D10S0258i	AB137256.1	D15S0045i	AB137415.1	D1S1148i	AB146795.1
D10S0259i	AB137258.1	D15S0046i	AB137417.1	D1S1149i	AB146796.1
D10S0260i	AB137259.1	D15S0048i	AB137419.1	D1S1150i	AB146797.1



D10S0261i	AB137260.1	D15S0049i	AB137425.1	D1S1151i	AB146798.1
D10S0262i	AB137261.1	D15S0050i	AB137432.1	D1S1152i	AB146799.1
D10S0263i	AB137262.1	D15S0051i	AB137440.1	D1S1153i	AB146800.1
D10S0264i	AB137264.1	D15S0052i	AB138041.1	D1S1154i	AB146801.1
D10S0265i	AB137265.1	D15S0053i	AB138043.1	D1S1155i	AB146802.1
D10S0266i	AB137266.1	D15S0054i	AB138044.1	D1S1156i	AB146803.1
D10S0267i	AB137718.1	D15S0055i	AB138047.1	D1S1157i	AB146804.1
D10S0268i	AB137904.1	D15S0056i	AB138048.1	D1S1158i	AB146805.1
D10S0269i	AB137909.1	D15S0058i	AB138052.1	D1S1159i	AB146806.1
D10S0270i	AB137911.1	D15S0059i	AB138053.1	D1S1160i	AB146807.1
D10S0271i	AB137912.1	D15S0060i	AB138054.1	D1S1161i	AB146808.1
D10S0273i	AB137918.1	D15S0061i	AB129009.1	D1S1162i	AB146809.1

D10S0274i	AB137920.1	D15S0062i	AB138055.1	D1S1163i	AB146810.1
D10S0275i	AB137923.1	D15S0064i	AB138057.1	D1S1164i	AB146811.1
D10S0276i	AB137925.1	D15S0065i	AB138058.1	D1S1165i	AB146812.1
D10S0277i	AB137926.1	D15S0066i	AB138059.1	D1S1166i	AB146813.1
D10S0278i	AB137928.1	D15S0067i	AB129192.1	D1S1167i	AB146814.1
D10S0280i	AB137930.1	D15S0068i	AB138061.1	D1S1168i	AB146815.1
D10S0281i	AB137931.1	D15S0069i	AB138062.1	D1S1169i	AB146816.1
D10S0282i	AB137934.1	D15S0070i	AB138063.1	D1S1170i	AB146817.1
D10S0283i	AB137935.1	D15S0071i	AB138064.1	D1S1553	Z67867
D10S0284i	AB137936.1	D15S0072i	AB138065.1	D1S1555	Z67772
D10S0285i	AB137937.1	D15S0073i	AB138066.1	D1S1564	Z67783
D10S0286i	AB137938.1	D15S0074i	AB138073.1	D1S1565	Z67785

D10S0287i	AB137939.1	D15S0075i	AB138082.1	D1S1567	Z67800
D10S0288i	AB137940.1	D15S0076i	AB138310.1	D1S1568	Z67802
D10S0289i	AB137941.1	D15S0077i	AB140431.1	D1S1569	Z67803
D10S0290i	AB137944.1	D15S0078i	AB140535.1	D1S1570	Z51145
D10S0291i	AB137946.1	D15S0079i	AB141302.1	D1S1571	Z67848
D10S0292i	AB137948.1	D15S0080i	AB141307.1	D1S1572	Z67853
D10S0293i	AB137949.1	D15S0081i	AB141308.1	D1S1587	G07767
D10S0294i	AB137950.1	D15S0083i	AB141314.1	D1S1589	G07783
D10S0295i	AB137951.1	D15S0084i	AB141315.1	D1S1592	G07790
D10S0296i	AB137952.1	D15S0085i	AB141319.1	D1S1594	G07796
D10S0297i	AB137953.1	D15S0086i	AB141323.1	D1S1598	G07806
D10S0298i	AB137954.1	D15S0087i	AB141324.1	D1S1604	G07817

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D10S0301i	AB137957.1	D15S0090i	AB141334.1	D1S1611	G09267
D10S0302i	AB137958.1	D15S0091i	AB141335.1	D1S1612	G07863
D10S0303i	AB137959.1	D15S0092i	AB141336.1	D1S1614	G07866
D10S0304i	AB137961.1	D15S0093i	AB141337.1	D1S1617	G07766
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D10S0306i	AB137964.1	D15S0096i	AB141342.1	D1S1622	G09776
D10S0307i	AB137965.1	D15S0097i	AB141343.1	D1S1623	G07771
D10S0308i	AB137966.1	D15S0098i	AB141344.1	D1S1626	G07775
D10S0309i	AB137968.1	D15S0099i	AB141347.1	D1S1632	G07782
D10S0310i	AB137969.1	D15S0100i	AB141348.1	D1S1636	G09723

D10S0311i	AB137970.1	D15S0101i	AB129254.1	D1S1639	G09187
D10S0312i	AB137972.1	D15S0102i	AB141351.1	D1S1641	G09210
D10S0313i	AB137974.1	D15S0103i	AB141352.1	D1S1642	G07797
D10S0314i	AB137975.1	D15S0104i	AB141353.1	D1S1643	G07798
D10S0315i	AB137976.1	D15S0105i	AB141354.1	D1S1644	G07799
D10S0316i	AB137977.1	D15S0106i	AB141355.1	D1S1649	G08147
D10S0317i	AB137979.1	D15S0107i	AB141356.1	D1S1650	G09157
D10S0318i	AB137980.1	D15S0108i	AB141359.1	D1S1653	G07816
D10S0319i	AB137983.1	D15S0109i	AB141360.1	D1S1656	G07820
D10S0321i	AB138380.1	D15S0110i	AB141363.1	D1S1658	G09625
D10S0322i	AB140700.1	D15S0111i	AB141364.1	D1S1661	G07826
D10S0323i	AB140701.1	D15S0112i	AB141365.1	D1S1665	G07838

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D10S0324i	AB140702.1	D15S0113i	AB141366.1	D1S1669	G07842
D10S0325i	AB140703.1	D15S0114i	AB141367.1	D1S1673	G09124
D10S0326i	AB140690.1	D15S0115i	AB141369.1	D1S1676	G07861
D10S0327i	AB140704.1	D15S0116i	AB141370.1	D1S1679	G09435
D10S0328i	AB140705.1	D15S0117i	AB141371.1	D1S1723	Z51003
D10S0329i	AB140706.1	D15S0118i	AB141372.1	D1S1725	Z51341
D10S0330i	AB140707.1	D15S0119i	AB142281.1	D1S1726	Z51442
D10S0331i	AB140708.1	D15S0121i	AB142283.1	D1S1727	Z51584
D10S0332i	AB140709.1	D15S0122i	AB142284.1	D1S189	Z16458
D10S0333i	AB140710.1	D15S0123i	AB142285.1	D1S190	Z16473
D10S0334i	AB140711.1	D15S0124i	AB142286.1	D1S191	Z16475
D10S0335i	AB140712.1	D15S0127i	AB142289.1	D1S195	Z23319

D10S0336i	AB140713.1	D15S0128i	AB142290.1	D1S196	Z16503
D10S0337i	AB140714.1	D15S0129i	AB142291.1	D1S197	Z16522
D10S0339i	AB140716.1	D15S0130i	AB142292.1	D1S198	Z16526
D10S0340i	AB140718.1	D15S0131i	AB142293.1	D1S199	Z16534
D10S0341i	AB140719.1	D15S0132i	AB142294.1	D1S200	Z16550
D10S0342i	AB140720.1	D15S0133i	AB142295.1	D1S201	Z16554
D10S0343i	AB140722.1	D15S0134i	AB129279.1	D1S203	Z16559
D10S0344i	AB140723.1	D15S0135i	AB142296.1	D1S204	Z16572
D10S0345i	AB140724.1	D15S0136i	AB142297.1	D1S206	Z16595
D10S0346i	AB140725.1	D15S0137i	AB142298.1	D1S208	Z16614
D10S0347i	AB140726.1	D15S0138i	AB142299.1	D1S209	Z16616
D10S0348i	AB140727.1	D15S0139i	AB142300.1	D1S211	Z16622

D10S0349i	AB140728.1	D15S0140i	AB142301.1	D1S212	Z16653
D10S0350i	AB140729.1	D15S0141i	AB142302.1	D1S213	Z16668
D10S0351i	AB140730.1	D15S0142i	AB142303.1	D1S214	Z16669
D10S0352i	AB140731.1	D15S0143i	AB142304.1	D1S215	Z16674
D10S0353i	AB140732.1	D15S0144i	AB142305.1	D1S217	Z16696
D10S0354i	AB140733.1	D15S0145i	AB129280.1	D1S219	Z16714
D10S0355i	AB140734.1	D15S0146i	AB142306.1	D1S221	Z23414
D10S0356i	AB140735.1	D15S0147i	AB142307.1	D1S222	Z16740
D10S0357i	AB140736.1	D15S0148i	AB142308.1	D1S223	Z16765
D10S0358i	AB140737.1	D15S0149i	AB142309.1	D1S224	Z16787
D10S0359i	AB140741.1	D15S0150i	AB142310.1	D1S225	Z16800
D10S0360i	AB140746.1	D15S0151i	AB142311.1	D1S227	Z16806



D10S0361i	AB140757.1	D15S0152i	AB142312.1	D1S228	Z16835
D10S0362i	AB142351.1	D15S0154i	AB142314.1	D1S229	Z16840
D10S0363i	AB142898.1	D15S0155i	AB142315.1	D1S230	Z16843
D10S0364i	AB142903.1	D15S0156i	AB142316.1	D1S231	Z23479
D10S0365i	AB142908.1	D15S0157i	AB142317.1	D1S232	Z16859
D10S0366i	AB142909.1	D15S0158i	AB142318.1	D1S233	Z16876
D10S0367i	AB142916.1	D15S0159i	AB142319.1	D1S2343	Z51597
D10S0368i	AB142926.1	D15S0160i	AB142320.1	D1S2344	Z52885
D10S0369i	AB142927.1	D15S0161i	AB142321.1	D1S2346	Z51162
D10S0370i	AB142928.1	D15S0162i	AB142322.1	D1S235	Z16905
D10S0371i	AB142929.1	D15S0163i	AB142323.1	D1S237	Z16919
D10S0372i	AB142930.1	D15S0164i	AB129281.1	D1S238	Z16920

D10S0373i	AB142931.1	D15S0165i	AB142324.1	D1S239	Z16924
D10S0374i	AB142932.1	D15S0166i	AB142325.1	D1S240	Z16934
D10S0375i	AB142933.1	D15S0167i	AB142326.1	D1S243	Z16979
D10S0376i	AB142934.1	D15S0168i	AB142327.1	D1S245	Z17011
D10S0377i	AB142935.1	D15S0169i	AB142328.1	D1S246	Z17036
D10S0378i	AB142936.1	D15S0170i	AB142329.1	D1S247	Z17038
D10S0379i	AB142937.1	D15S0171i	AB142330.1	D1S249	Z17051
D10S0380i	AB142938.1	D15S0172i	AB142331.1	D1S251	Z17121
D10S0381i	AB142939.1	D15S0173i	AB142332.1	D1S252	Z17138
D10S0382i	AB142940.1	D15S0174i	AB142333.1	D1S254	Z17166
D10S0384i	AB142941.1	D15S0176i	AB142335.1	D1S2615	Z52067
D10S0385i	AB142942.1	D15S0177i	AB142336.1	D1S2616	Z52081

D10S0387i	AB142944.1	D15S0178i	AB142337.1	D1S2621	Z52105
D10S0388i	AB142945.1	D15S0179i	AB142338.1	D1S2623	Z52114
D10S0389i	AB142946.1	D15S0180i	AB142339.1	D1S2624	Z52151
D10S0391i	AB142948.1	D15S0181i	AB142340.1	D1S2625	Z52163
D10S0392i	AB142949.1	D15S0182i	AB129282.1	D1S2626	Z52168
D10S0393i	AB142950.1	D15S0183i	AB142341.1	D1S2627	Z52171
D10S0394i	AB142951.1	D15S0184i	AB142342.1	D1S2628	Z52173
D10S0395i	AB142952.1	D15S0185i	AB142343.1	D1S2629	Z52174
D10S0396i	AB142953.1	D15S0186i	AB142344.1	D1S2630	Z52190
D10S0397i	AB142954.1	D15S0187i	AB142345.1	D1S2631	Z52193
D10S0398i	AB142955.1	D15S0188i	AB142346.1	D1S2632	Z52194
D10S0399i	AB142956.1	D15S0189i	AB142347.1	D1S2633	Z52208

D10S0400i	AB142957.1	D15S0190i	AB142348.1	D1S2635	Z52215
D10S0401i	AB142958.1	D15S0191i	AB142349.1	D1S2636	Z52218
D10S0402i	AB142959.1	D15S0192i	AB142350.1	D1S2638	Z52260
D10S0403i	AB142960.1	D15S0193i	AB142352.1	D1S2640	Z52276
D10S0404i	AB142961.1	D15S0194i	AB142353.1	D1S2641	Z52289
D10S0405i	AB142963.1	D15S0195i	AB142354.1	D1S2642	Z52295
D10S0406i	AB142964.1	D15S0196i	AB142355.1	D1S2644	Z52304
D10S0407i	AB142965.1	D15S0197i	AB142356.1	D1S2645	Z52324
D10S0408i	AB142869.1	D15S0198i	AB142357.1	D1S2646	Z52327
D10S0409i	AB142966.1	D15S0199i	AB142358.1	D1S2647	Z52337
D10S0410i	AB142967.1	D15S0200i	AB142359.1	D1S2648	Z52345
D10S0411i	AB142968.1	D15S0201i	AB142360.1	D1S2649	Z52366

D10S0413i	AB142970.1	D15S0202i	AB142361.1	D1S2650	Z52383
D10S0414i	AB142971.1	D15S0203i	AB142362.1	D1S2651	Z52390
D10S0415i	AB142972.1	D15S0204i	AB142363.1	D1S2655	Z52412
D10S0416i	AB142973.1	D15S0205i	AB142364.1	D1S2656	Z52417
D10S0417i	AB142974.1	D15S0206i	AB142365.1	D1S2657	Z52432
D10S0418i	AB129302.1	D15S0207i	AB142366.1	D1S2658	Z52449
D10S0419i	AB142975.1	D15S0208i	AB142367.1	D1S2660	Z52466
D10S0420i	AB142976.1	D15S0209i	AB142368.1	D1S2661	Z52468
D10S0421i	AB142977.1	D15S0210i	AB142369.1	D1S2662	Z52485
D10S0422i	AB142978.1	D15S0211i	AB142370.1	D1S2663	Z52501
D10S0423i	AB142979.1	D15S0212i	AB142371.1	D1S2664	Z51062
D10S0424i	AB142980.1	D15S0213i	AB142372.1	D1S2666	Z52571

D10S0425i	AB142981.1	D15S0214i	AB142373.1	D1S2667	Z52590
D10S0426i	AB129019.1	D15S0215i	AB142374.1	D1S2668	Z52594
D10S0427i	AB142982.1	D15S0216i	AB142375.1	D1S2669	Z52606
D10S0428i	AB142983.1	D15S0217i	AB142376.1	D1S2670	Z52616
D10S0429i	AB142984.1	D15S0218i	AB142377.1	D1S2671	Z52622
D10S0430i	AB142985.1	D15S0219i	AB142378.1	D1S2672	Z52632
D10S0431i	AB142986.1	D15S0220i	AB142379.1	D1S2673	Z52651
D10S0432i	AB142987.1	D15S0221i	AB142380.1	D1S2676	Z52685
D10S0433i	AB142988.1	D15S0222i	AB142381.1	D1S2677	Z52687
D10S0436i	AB142990.1	D15S0223i	AB142382.1	D1S2679	Z51088
D10S0437i	AB142991.1	D15S0224i	AB142383.1	D1S2681	Z52712
D10S0438i	AB142992.1	D15S0225i	AB142384.1	D1S2682	Z52721

D10S0439i	AB142993.1	D15S0226i	AB142392.1	D1S2683	Z52722
D10S0440i	AB142994.1	D15S0227i	AB142425.1	D1S2684	Z52732
D10S0442i	AB142995.1	D15S0228i	AB143965.1	D1S2685	Z52733
D10S0443i	AB129303.1	D15S0229i	AB145802.1	D1S2686	Z52742
D10S0444i	AB142996.1	D15S0230i	AB145817.1	D1S2687	Z52749
D10S0445i	AB142997.1	D15S0231i	AB145818.1	D1S2689	Z52758
D10S0446i	AB142998.1	D15S0232i	AB145819.1	D1S2690	Z52765
D10S0447i	AB142999.1	D15S0233i	AB145820.1	D1S2692	Z52805
D10S0448i	AB143000.1	D15S0234i	AB145822.1	D1S2695	Z52811
D10S0449i	AB143001.1	D15S0235i	AB145823.1	D1S2696	Z52819
D10S0450i	AB129304.1	D15S0237i	AB145825.1	D1S2697	Z52827
D10S0451i	AB143002.1	D15S0238i	AB145826.1	D1S2698	Z52836

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D10S0452i	AB143003.1	D15S0239i	AB145827.1	D1S2699	Z51107
D10S0453i	AB143004.1	D15S0240i	AB145828.1	D1S2700	Z52839
D10S0454i	AB143005.1	D15S0241i	AB145829.1	D1S2701	Z52856
D10S0455i	AB143006.1	D15S0242i	AB145830.1	D1S2703	Z52859
D10S0456i	AB143007.1	D15S0243i	AB145831.1	D1S2706	Z52909
D10S0457i	AB143008.1	D15S0244i	AB145832.1	D1S2707	Z52929
D10S0458i	AB143009.1	D15S0245i	AB145834.1	D1S2709	Z52948
D10S0459i	AB143010.1	D15S0246i	AB145821.1	D1S2710	Z52971
D10S0460i	AB143011.1	D15S0247i	AB145835.1	D1S2715	Z53023
D10S0461i	AB143012.1	D15S0250i	AB145838.1	D1S2716	Z53037
D10S0462i	AB143013.1	D15S0251i	AB145839.1	D1S2717	Z53041
D10S0463i	AB143014.1	D15S0252i	AB145840.1	D1S2722	Z51133



D10S0464i	AB143015.1	D15S0253i	AB145841.1	D1S2724	Z53089
D10S0465i	AB143016.1	D15S0254i	AB145842.1	D1S2726	Z53160
D10S0466i	AB143017.1	D15S0255i	AB145843.1	D1S2727	Z53161
D10S0467i	AB143018.1	D15S0256i	AB145844.1	D1S2728	Z53162
D10S0468i	AB143019.1	D15S0257i	AB145845.1	D1S2729	Z53180
D10S0469i	AB143020.1	D15S0258i	AB145846.1	D1S2732	Z53194
D10S0470i	AB143021.1	D15S0259i	AB145847.1	D1S2735	Z53212
D10S0471i	AB143022.1	D15S0260i	AB145848.1	D1S2736	Z53221
D10S0472i	AB143023.1	D15S0262i	AB145850.1	D1S2738	Z53237
D10S0473i	AB143024.1	D15S0263i	AB145851.1	D1S2739	Z53245
D10S0474i	AB143025.1	D15S0264i	AB145852.1	D1S2740	Z53253
D10S0475i	AB143026.1	D15S0265i	AB145853.1	D1S2741	Z53266

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D10S0476i	AB143027.1	D15S0266i	AB145854.1	D1S2742	Z53283
D10S0477i	AB143028.1	D15S0267i	AB145855.1	D1S2745	Z53303
D10S0479i	AB143030.1	D15S0268i	AB145856.1	D1S2746	Z53318
D10S0480i	AB143031.1	D15S0269i	AB145857.1	D1S2748	Z53342
D10S0481i	AB143032.1	D15S0270i	AB145858.1	D1S2749	Z53354
D10S0482i	AB143033.1	D15S0271i	AB145859.1	D1S2750	Z53371
D10S0483i	AB143034.1	D15S0272i	AB145860.1	D1S2751	Z53375
D10S0484i	AB143035.1	D15S0273i	AB145861.1	D1S2756	Z53460
D10S0485i	AB129305.1	D15S0274i	AB145865.1	D1S2757	Z53479
D10S0486i	AB143036.1	D15S0275i	AB145867.1	D1S2758	Z53496
D10S0487i	AB143037.1	D15S0276i	AB145870.1	D1S2759	Z53497
D10S0488i	AB143038.1	D15S0277i	AB145871.1	D1S2760	Z53504

D10S0489i	AB143039.1	D15S0278i	AB145872.1	D1S2761	Z53508
D10S0490i	AB143040.1	D15S0279i	AB129369.1	D1S2762	Z53529
D10S0491i	AB143042.1	D15S0280i	AB145874.1	D1S2763	Z53534
D10S0492i	AB143043.1	D15S0281i	AB145875.1	D1S2764	Z53535
D10S0493i	AB143044.1	D15S0282i	AB145878.1	D1S2766	Z53577
D10S0494i	AB143045.1	D15S0283i	AB145879.1	D1S2767	Z53608
D10S0495i	AB143046.1	D15S0284i	AB145880.1	D1S2768	Z53611
D10S0496i	AB143047.1	D15S0285i	AB145884.1	D1S2769	Z53636
D10S0497i	AB143048.1	D15S0286i	AB145889.1	D1S2770	Z51208
D10S0498i	AB143049.1	D15S0287i	AB145891.1	D1S2772	Z53688
D10S0499i	AB143050.1	D15S0288i	AB146010.1	D1S2773	Z53693
D10S0500i	AB143051.1	D15S0289i	AB146215.1	D1S2774	Z53696

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D10S0501i	AB143052.1	D15S0292i	AB146230.1	D1S2776	Z51216
D10S0502i	AB143053.1	D15S0293i	AB146237.1	D1S2777	Z53720
D10S0503i	AB143054.1	D15S0294i	AB146243.1	D1S2778	Z53724
D10S0504i	AB143055.1	D15S0295i	AB146261.1	D1S2780	Z53752
D10S0505i	AB143056.1	D15S0296i	AB146262.1	D1S2781	Z53778
D10S0506i	AB143057.1	D15S0298i	AB146924.1	D1S2784	Z53800
D10S0508i	AB143059.1	D15S0299i	AB146935.1	D1S2785	Z53802
D10S0509i	AB143060.1	D15S0300i	AB146944.1	D1S2786	Z53809
D10S0510i	AB143061.1	D15S0301i	AB146945.1	D1S2788	Z53816
D10S0511i	AB143062.1	D15S0302i	AB146952.1	D1S2789	Z53821
D10S0512i	AB143063.1	D15S0303i	AB146953.1	D1S2791	Z53829
D10S0513i	AB143064.1	D15S0304i	AB146957.1	D1S2792	Z53831

D10S0514i	AB143065.1	D15S0305i	AB129390.1	D1S2793	Z53845
D10S0515i	AB143066.1	D15S0306i	AB146958.1	D1S2794	Z53849
D10S0516i	AB143067.1	D15S0307i	AB146963.1	D1S2795	Z53863
D10S0517i	AB143068.1	D15S0308i	AB146964.1	D1S2796	Z50913
D10S0518i	AB143069.1	D15S1000	Z53238	D1S2797	Z53878
D10S0519i	AB143070.1	D15S1002	Z53249	D1S2799	Z53881
D10S0520i	AB143071.1	D15S1003	Z53278	D1S2800	Z53893
D10S0521i	AB143072.1	D15S1004	Z53286	D1S2801	Z53895
D10S0522i	AB143073.1	D15S1005	Z53293	D1S2802	Z51236
D10S0523i	AB143074.1	D15S1006	Z53365	D1S2803	Z53896
D10S0524i	AB143075.1	D15S1007	Z53384	D1S2805	Z53938
D10S0525i	AB143076.1	D15S1008	Z53386	D1S2806	Z53944

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D10S0526i	AB143079.1	D15S1009	Z53398	D1S2807	Z53960
D10S0527i	AB143080.1	D15S1010	Z53401	D1S2810	Z53976
D10S0528i	AB143081.1	D15S1011	Z53414	D1S2811	Z53989
D10S0529i	AB143082.1	D15S1013	Z53444	D1S2812	Z51248
D10S0530i	AB143087.1	D15S1014	Z53462	D1S2813	Z54009
D10S0531i	AB143089.1	D15S1015	Z53527	D1S2814	Z51249
D10S0532i	AB143090.1	D15S1016	Z53609	D1S2815	Z54019
D10S0533i	AB143094.1	D15S1017	Z53648	D1S2817	Z54046
D10S0534i	AB143097.1	D15S1019	Z53707	D1S2818	Z54047
D10S0535i	AB143098.1	D15S1020	Z53712	D1S2819	Z54054
D10S0536i	AB143104.1	D15S1021	Z53764	D1S2822	Z51273
D10S0537i	AB145590.1	D15S1023	Z53784	D1S2823	Z51279

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D10S0538i	AB145591.1	D15S1024	Z53819	D1S2826	Z51302
D10S0539i	AB145595.1	D15S1025	Z53891	D1S2827	Z51306
D10S0540i	AB145816.1	D15S1026	Z53932	D1S2828	Z51317
D10S0541i	AB146098.1	D15S1027	Z53977	D1S2830	Z51334
D10S0542i	AB146057.1	D15S1028	Z54065	D1S2832	Z50927
D10S0543i	AB146099.1	D15S1029	Z51303	D1S2833	Z51370
D10S0545i	AB146105.1	D15S1030	Z51330	D1S2835	Z51377
D10S0546i	AB146106.1	D15S1031	Z51346	D1S2836	Z51381
D10S0547i	AB146107.1	D15S1032	Z51395	D1S2837	Z51385
D10S0548i	AB146108.1	D15S1033	Z51427	D1S2840	Z51414
D10S0549i	AB146109.1	D15S1035	Z51470	D1S2841	Z51432
D10S0550i	AB146115.1	D15S1036	Z51476	D1S2842	Z51447

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D10S0551i	AB146116.1	D15S1037	Z51491	D1S2843	Z51469
D10S0552i	AB146117.1	D15S1038	Z51528	D1S2844	Z51472
D10S0553i	AB146118.1	D15S1039	Z51531	D1S2845	Z51474
D10S0554i	AB146121.1	D15S1040	Z51533	D1S2846	Z51485
D10S0555i	AB146122.1	D15S1041	Z51539	D1S2847	Z51495
D10S0556i	AB146123.1	D15S1042	Z51572	D1S2848	Z51502
D10S0557i	AB146124.1	D15S1043	Z51622	D1S2849	Z51509
D10S0558i	AB146125.1	D15S1045	Z51707	D1S2850	Z50940
D10S0559i	AB146130.1	D15S1046	Z51729	D1S2851	Z51512
D10S0560i	AB146131.1	D15S1049	Z51963	D1S2852	Z51517
D10S0561i	AB146132.1	D15S1050	Z51965	D1S2855	Z51526
D10S0562i	AB146133.1	D15S114	Z16428	D1S2858	Z51536



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D10S0563i	AB146135.1	D15S115	Z16450	D1S2859	Z51570
D10S0564i	AB146136.1	D15S116	Z16535	D1S2862	Z51618
D10S0565i	AB146137.1	D15S117	Z16568	D1S2863	Z50949
D10S0566i	AB146138.1	D15S118	Z16588	D1S2864	Z51626
D10S0567i	AB146140.1	D15S119	Z16673	D1S2865	Z51637
D10S0568i	AB146141.1	D15S120	Z16744	D1S2866	Z51638
D10S0569i	AB146142.1	D15S121	Z16814	D1S2868	Z51655
D10S0570i	AB146143.1	D15S122	Z16882	D1S2869	Z51675
D10S0571i	AB146144.1	D15S123	Z16923	D1S2870	Z51678
D10S0572i	AB146145.1	D15S124	Z16940	D1S2871	Z51685
D10S0573i	AB146146.1	D15S126	Z16994	D1S2873	Z51705
D10S0574i	AB146151.1	D15S127	Z17013	D1S2874	Z51721

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D10S0575i	AB146152.1	D15S128	Z17197	D1S2875	Z51723
D10S0576i	AB146153.1	D15S130	Z16520	D1S2876	Z51733
D10S0577i	AB146154.1	D15S143	Z23284	D1S2877	Z51735
D10S0578i	AB146155.1	D15S144	Z23286	D1S2878	Z51743
D10S0579i	AB146156.1	D15S145	Z23312	D1S2880	Z51749
D10S0580i	AB146157.1	D15S148	Z23389	D1S2881	Z51769
D10S0581i	AB146160.1	D15S150	Z51073	D1S2883	Z51783
D10S0582i	AB146161.1	D15S151	Z23437	D1S2884	Z51818
D10S0583i	AB146162.1	D15S152	Z23519	D1S2885	Z51843
D10S0584i	AB129373.1	D15S153	Z23555	D1S2887	Z50984
D10S0585i	AB146167.1	D15S155	Z23613	D1S2888	Z51884
D10S0586i	AB146168.1	D15S157	Z23651	D1S2889	Z51910

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D10S0587i	AB146169.1	D15S158	Z23708	D1S2891	Z51920
D10S0588i	AB146174.1	D15S159	Z23731	D1S2893	Z50993
D10S0589i	AB146175.1	D15S160	Z23814	D1S2894	Z51955
D10S0590i	AB146176.1	D15S161	Z23852	D1S2895	Z51992
D10S0591i	AB146180.1	D15S165	Z17271	D1S2896	Z52010
D10S0592i	AB146181.1	D15S199	Z23360	D1S2897	Z52012
D10S0593i	AB146182.1	D15S200	Z23877	D1S303	Z17247
D10S0594i	AB146187.1	D15S201	Z24004	D1S304	Z17249
D10S0595i	AB146188.1	D15S206	Z24204	D1S305	Z17260
D10S0596i	AB146189.1	D15S207	Z24280	D1S306	Z17267
D10S0597i	AB146190.1	D15S208	Z24290	D1S321	Z17259
D10S0598i	AB146191.1	D15S209	Z24319	D1S411	Z23283

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D10S0599i	AB146194.1	D15S210	Z24360	D1S414	Z23435
D10S0600i	AB146195.1	D15S211	Z24390	D1S416	Z23445
D10S0601i	AB146196.1	D15S212	Z24426	D1S417	Z23466
D10S0602i	AB146197.1	D15S213	Z24595	D1S418	Z23477
D10S0603i	AB146201.1	D15S214	Z24617	D1S419	Z23491
D10S0604i	AB146202.1	D15S215	Z24647	D1S420	Z23492
D10S0605i	AB146203.1	D15S217	G07914	D1S422	Z23498
D10S0606i	AB146204.1	D15S551	Z67819	D1S423	Z23307
D10S0607i	AB146205.1	D15S643	G07905	D1S425	Z23538
D10S0608i	AB146206.1	D15S644	G07916	D1S428	Z23562
D10S0610i	AB146819.1	D15S648	G07892	D1S429	Z23582
D10S0611i	AB146820.1	D15S650	G07890	D1S430	Z23588

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D10S0612i	AB146821.1	D15S652	G07893	D1S431	Z23618
D10S0613i	AB146822.1	D15S655	G07895	D1S434	Z23648
D10S0614i	AB146825.1	D15S657	G07903	D1S439	Z23695
D10S0615i	AB146826.1	D15S659	G07907	D1S441	Z23718
D10S0616i	AB146827.1	D15S962	Z52043	D1S442	Z23730
D10S0617i	AB146828.1	D15S963	Z52084	D1S443	Z23737
D10S0618i	AB146829.1	D15S964	Z52145	D1S445	Z23745
D10S0619i	AB146830.1	D15S965	Z52255	D1S447	Z23291
D10S0620i	AB146834.1	D15S966	Z52259	D1S449	Z23778
D10S0621i	AB146835.1	D15S967	Z52288	D1S450	Z23797
D10S0622i	AB146836.1	D15S969	Z51045	D1S454	Z23340
D10S0623i	AB146837.1	D15S970	Z52394	D1S456	Z23292

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D10S0624i	AB146838.1	D15S971	Z52464	D1S457	Z23345
D10S0625i	AB146842.1	D15S973	Z52503	D1S458	Z23368
D10S0626i	AB146843.1	D15S974	Z52508	D1S459	Z23373
D10S0627i	AB146845.1	D15S975	Z52524	D1S461	Z23380
D10S0628i	AB146846.1	D15S976	Z52579	D1S463	Z23403
D10S0629i	AB146847.1	D15S977	Z52602	D1S464	Z23928
D10S0630i	AB146848.1	D15S978	Z52624	D1S465	Z23935
D10S0631i	AB146849.1	D15S979	Z52630	D1S466	Z23954
D10S0632i	AB146850.1	D15S980	Z52633	D1S467	Z23985
D10S0633i	AB146853.1	D15S981	Z52676	D1S470	Z24000
D10S0635i	AB146855.1	D15S982	Z52695	D1S471	Z24003
D10S0636i	AB146856.1	D15S984	Z52735	D1S472	Z24014

D10S0637i	AB146857.1	D15S985	Z52762	D1S476	Z24081
D10S0638i	AB146858.1	D15S986	Z52771	D1S477	Z24084
D10S0639i	AB146861.1	D15S988	Z52846	D1S478	Z24089
D10S0640i	AB146862.1	D15S992	Z52967	D1S479	Z24094
D10S0641i	AB146863.1	D15S993	Z52985	D1S480	Z24098
D10S0643i	AB146865.1	D15S994	Z53036	D1S482	Z24142
D10S0644i	AB146866.1	D15S995	Z53051	D1S483	Z24177
D10S0645i	AB146869.1	D15S996	Z53142	D1S485	Z24185
D10S0646i	AB146870.1	D15S998	Z53169	D1S487	Z24192
D10S0647i	AB146871.1	D15S999	Z53214	D1S490	Z24284
D10S0648i	AB146872.1	D16S0001i	AB129591.1	D1S492	Z24294
D10S0649i	AB146873.1	D16S0002i	AB129596.1	D1S495	Z24389

D10S0650i	AB146874.1	D16S0003i	AB129599.1	D1S497	Z24425
D10S0651i	AB147099.1	D16S0004i	AB129570.1	D1S499	Z24550
D10S1200	Z67813	D16S0005i	AB129600.1	D1S501	Z24607
D10S1201	Z67849	D16S0006i	AB129604.1	D1S504	Z24625
D10S1209	G08787	D16S0007i	AB129610.1	D1S505	Z24626
D10S1210	G08788	D16S0008i	AB129611.1	D1S510	Z24648
D10S1242	G08804	D16S0009i	AB129613.1	D1S513	Z24658
D10S1243	G08803	D16S0010i	AB129614.1	D1S514	Z24671
D10S1245	G08803	D16S0011i	AB129616.1	D1S519	G07810
D10S1246	G08818	D16S0012i	AB129619.1	D1S542	G09144
D10S1264	Z51028	D16S0013i	AB129931.1	D1S552	G07868
D10S1265	Z51152	D16S0014i	AB129975.1	D20S0002i	AB129669.1



D10S1266	Z52211	D16S0015i	AB129978.1	D20S0003i	AB129671.1
D10S1267	Z52844	D16S0016i	AB129981.1	D20S0004i	AB129674.1
D10S1269	Z51240	D16S0017i	AB130724.1	D20S0005i	AB129675.1
D10S1476	Z51300	D16S0018i	AB130727.1	D20S0006i	AB129677.1
D10S1477	Z50956	D16S0019i	AB130741.1	D20S0007i	AB129678.1
D10S1639	Z52038	D16S0020i	AB130743.1	D20S0008i	AB129679.1
D10S1640	Z52048	D16S0021i	AB130744.1	D20S0009i	AB129680.1
D10S1641	Z52061	D16S0022i	AB130747.1	D20S0010i	AB129683.1
D10S1644	Z52153	D16S0023i	AB130748.1	D20S0011i	AB129684.1
D10S1646	Z52169	D16S0024i	AB130749.1	D20S0012i	AB129685.1
D10S1647	Z52188	D16S0025i	AB130751.1	D20S0013i	AB129687.1
D10S1648	Z52272	D16S0026i	AB130754.1	D20S0014i	AB129690.1

D10S1649	Z51034	D16S0027i	AB130757.1	D20S0015i	AB129691.1
D10S1650	Z52302	D16S0028i	AB130758.1	D20S0016i	AB129692.1
D10S1653	Z52361	D16S0029i	AB130763.1	D20S0017i	AB129984.1
D10S1655	Z52385	D16S0030i	AB134346.1	D20S0018i	AB129985.1
D10S1659	Z52462	D16S0031i	AB134354.1	D20S0019i	AB129986.1
D10S1660	Z52474	D16S0032i	AB134356.1	D20S0020i	AB129988.1
D10S1661	Z52476	D16S0033i	AB134358.1	D20S0021i	AB129990.1
D10S1663	Z52487	D16S0034i	AB134360.1	D20S0022i	AB129991.1
D10S1664	Z52497	D16S0036i	AB134362.1	D20S0023i	AB129994.1
D10S1665	Z52502	D16S0038i	AB134365.1	D20S0024i	AB129995.1
D10S1667	Z52521	D16S0039i	AB134366.1	D20S0025i	AB129998.1
D10S1669	Z52542	D16S0040i	AB134368.1	D20S0026i	AB129999.1

D10S1670	Z51067	D16S0041i	AB134370.1	D20S0027i	AB130000.1
D10S1671	Z52570	D16S0042i	AB134371.1	D20S0028i	AB130004.1
D10S1672	Z52580	D16S0043i	AB134372.1	D20S0029i	AB130889.1
D10S1673	Z52585	D16S0044i	AB134373.1	D20S0030i	AB130890.1
D10S1674	Z52592	D16S0045i	AB129134.1	D20S0031i	AB130894.1
D10S1676	Z52631	D16S0046i	AB134379.1	D20S0032i	AB130904.1
D10S1678	Z52660	D16S0047i	AB134381.1	D20S0034i	AB130916.1
D10S1679	Z52674	D16S0048i	AB134382.1	D20S0035i	AB130917.1
D10S1680	Z52675	D16S0049i	AB134385.1	D20S0036i	AB130918.1
D10S1681	Z52726	D16S0050i	AB134388.1	D20S0037i	AB130919.1
D10S1682	Z52731	D16S0051i	AB134389.1	D20S0038i	AB130920.1
D10S1685	Z52774	D16S0052i	AB134390.1	D20S0039i	AB130922.1

D10S1687	Z52829	D16S0053i	AB134392.1	D20S0040i	AB130923.1
D10S1688	Z52831	D16S0054i	AB134396.1	D20S0041i	AB130924.1
D10S1689	Z52845	D16S0055i	AB134397.1	D20S0042i	AB130925.1
D10S1690	Z52852	D16S0056i	AB134398.1	D20S0043i	AB130926.1
D10S1691	Z52919	D16S0057i	AB134400.1	D20S0044i	AB130927.1
D10S1692	Z52954	D16S0058i	AB134403.1	D20S0045i	AB130928.1
D10S1694	Z52961	D16S0059i	AB134404.1	D20S0046i	AB130929.1
D10S1695	Z52978	D16S0060i	AB134408.1	D20S0047i	AB130931.1
D10S1696	Z53003	D16S0061i	AB134409.1	D20S0048i	AB130932.1
D10S1697	Z53028	D16S0062i	AB134414.1	D20S0050i	AB134764.1
D10S1698	Z53042	D16S0063i	AB134419.1	D20S0051i	AB134765.1
D10S1699	Z53061	D16S0064i	AB134420.1	D20S0052i	AB134766.1

D10S1700	Z53080	D16S0065i	AB134421.1	D20S0053i	AB134774.1
D10S1704	Z53141	D16S0066i	AB134422.1	D20S0054i	AB134776.1
D10S1707	Z53200	D16S0068i	AB134424.1	D20S0055i	AB134781.1
D10S1708	Z53208	D16S0069i	AB134425.1	D20S0057i	AB134783.1
D10S1709	Z53225	D16S0070i	AB134426.1	D20S0058i	AB134791.1
D10S1711	Z53276	D16S0071i	AB134429.1	D20S0059i	AB134792.1
D10S1712	Z53287	D16S0072i	AB134430.1	D20S0060i	AB134793.1
D10S1713	Z53311	D16S0074i	AB134434.1	D20S0061i	AB134794.1
D10S1715	Z53427	D16S0075i	AB134437.1	D20S0062i	AB134795.1
D10S1716	Z53431	D16S0076i	AB134438.1	D20S0063i	AB134799.1
D10S1720	Z53533	D16S0077i	AB134439.1	D20S0064i	AB134800.1
D10S1722	Z53578	D16S0078i	AB134441.1	D20S0065i	AB134801.1

D10S1724	Z53625	D16S0079i	AB134442.1	D20S0066i	AB134802.1
D10S1725	Z53630	D16S0080i	AB134443.1	D20S0067i	AB134803.1
D10S1726	Z53669	D16S0081i	AB134446.1	D20S0068i	AB134806.1
D10S1727	Z51215	D16S0082i	AB134447.1	D20S0069i	AB134807.1
D10S1729	Z51219	D16S0083i	AB134449.1	D20S0070i	AB134808.1
D10S1730	Z53743	D16S0084i	AB134450.1	D20S0071i	AB134811.1
D10S1731	Z53761	D16S0085i	AB134454.1	D20S0072i	AB134812.1
D10S1732	Z53773	D16S0086i	AB134456.1	D20S0073i	AB134813.1
D10S1733	Z51226	D16S0087i	AB134457.1	D20S0074i	AB134814.1
D10S1734	Z53820	D16S0088i	AB134458.1	D20S0075i	AB134815.1
D10S1735	Z51228	D16S0089i	AB134460.1	D20S0076i	AB134816.1
D10S1736	Z53846	D16S0090i	AB134461.1	D20S0077i	AB134817.1

D10S1737	Z53866	D16S0091i	AB134462.1	D20S0078i	AB134819.1
D10S1739	Z53909	D16S0092i	AB134464.1	D20S0080i	AB134822.1
D10S1741	Z53940	D16S0093i	AB134465.1	D20S0081i	AB134823.1
D10S1742	Z53942	D16S0094i	AB134466.1	D20S0082i	AB134824.1
D10S1743	Z53951	D16S0095i	AB134468.1	D20S0083i	AB134825.1
D10S1744	Z50914	D16S0096i	AB134469.1	D20S0084i	AB134826.1
D10S1745	Z53979	D16S0097i	AB134471.1	D20S0085i	AB134827.1
D10S1746	Z53980	D16S0098i	AB134472.1	D20S0086i	AB134829.1
D10S1748	Z53984	D16S0099i	AB134473.1	D20S0087i	AB134831.1
D10S1749	Z53985	D16S0100i	AB134474.1	D20S0088i	AB134832.1
D10S1750	Z54006	D16S0101i	AB134475.1	D20S0089i	AB134833.1
D10S1751	Z54052	D16S0103i	AB134477.1	D20S0090i	AB134834.1

D10S1754	Z51280	D16S0104i	AB134479.1	D20S0091i	AB134835.1
D10S1755	Z51289	D16S0105i	AB134480.1	D20S0092i	AB134836.1
D10S1757	Z51329	D16S0106i	AB134481.1	D20S0093i	AB134837.1
D10S1758	Z51336	D16S0107i	AB134486.1	D20S0094i	AB134841.1
D10S1760	Z50931	D16S0108i	AB134489.1	D20S0096i	AB134844.1
D10S1761	Z51412	D16S0109i	AB134492.1	D20S0097i	AB134846.1
D10S1763	Z50932	D16S0110i	AB134493.1	D20S0098i	AB134847.1
D10S1764	Z51441	D16S0111i	AB134494.1	D20S0099i	AB134849.1
D10S1765	Z51444	D16S0113i	AB134497.1	D20S0100i	AB134851.1
D10S1766	Z50934	D16S0114i	AB134500.1	D20S0103i	AB134855.1
D10S1767	Z51458	D16S0115i	AB134502.1	D20S0104i	AB134856.1
D10S1768	Z51460	D16S0116i	AB129135.1	D20S0107i	AB134860.1



D10S1770	Z51554	D16S0117i	AB134505.1	D20S0108i	AB134861.1
D10S1771	Z51560	D16S0118i	AB134506.1	D20S0109i	AB134862.1
D10S1773	Z51606	D16S0119i	AB134508.1	D20S0111i	AB134864.1
D10S1775	Z51614	D16S0120i	AB134509.1	D20S0112i	AB134865.1
D10S1778	Z51654	D16S0121i	AB134510.1	D20S0113i	AB134866.1
D10S1779	Z51658	D16S0122i	AB134511.1	D20S0115i	AB134868.1
D10S1782	Z51800	D16S0123i	AB134512.1	D20S0116i	AB134869.1
D10S1783	Z51801	D16S0124i	AB134513.1	D20S0118i	AB134872.1
D10S1785	Z51828	D16S0125i	AB134514.1	D20S0119i	AB134873.1
D10S1786	Z51854	D16S0126i	AB134515.1	D20S0121i	AB134876.1
D10S1787	Z51879	D16S0127i	AB134517.1	D20S0122i	AB134877.1
D10S1788	Z51880	D16S0128i	AB134519.1	D20S0123i	AB134878.1

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D10S1789	Z51883	D16S0129i	AB134520.1	D20S0124i	AB134879.1
D10S1790	Z51952	D16S0130i	AB134522.1	D20S0126i	AB134881.1
D10S1791	Z51962	D16S0131i	AB134523.1	D20S0127i	AB134882.1
D10S1792	Z51964	D16S0132i	AB134526.1	D20S0128i	AB134883.1
D10S1793	Z52002	D16S0133i	AB134529.1	D20S0129i	AB134884.1
D10S1794	Z52011	D16S0134i	AB134530.1	D20S0131i	AB134886.1
D10S1795	Z52014	D16S0135i	AB134531.1	D20S0132i	AB134889.1
D10S185	Z16429	D16S0136i	AB134532.1	D20S0133i	AB134892.1
D10S186	Z16436	D16S0137i	AB134533.1	D20S0134i	AB134894.1
D10S188	Z16501	D16S0138i	AB134535.1	D20S0135i	AB134896.1
D10S189	Z16502	D16S0139i	AB134537.1	D20S0136i	AB134897.1
D10S190	Z16509	D16S0140i	AB134539.1	D20S0137i	AB134900.1

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D10S191	Z16510	D16S0141i	AB134541.1	D20S0138i	AB134901.1
D10S192	Z16555	D16S0142i	AB134546.1	D20S0139i	AB134903.1
D10S193	Z16565	D16S0143i	AB134549.1	D20S0140i	AB134904.1
D10S195	Z16566	D16S0144i	AB134550.1	D20S0141i	AB134905.1
D10S196	Z16598	D16S0145i	AB134551.1	D20S0142i	AB134907.1
D10S197	Z16611	D16S0146i	AB134552.1	D20S0143i	AB134908.1
D10S198	Z16633	D16S0147i	AB134553.1	D20S0144i	AB134909.1
D10S199	Z16651	D16S0148i	AB134557.1	D20S0145i	AB134910.1
D10S200	Z16678	D16S0149i	AB134558.1	D20S0146i	AB134911.1
D10S201	Z16693	D16S0150i	AB134559.1	D20S0147i	AB134912.1
D10S202	Z16715	D16S0151i	AB134562.1	D20S0148i	AB134913.1
D10S204	Z16729	D16S0152i	AB134563.1	D20S0149i	AB134914.1

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D10S205	Z16739	D16S0153i	AB134564.1	D20S0150i	AB134917.1
D10S207	Z16772	D16S0154i	AB134566.1	D20S0151i	AB129139.1
D10S208	Z16795	D16S0155i	AB134567.1	D20S0152i	AB134918.1
D10S210	Z16813	D16S0156i	AB134569.1	D20S0153i	AB134920.1
D10S211	Z16854	D16S0158i	AB134571.1	D20S0154i	AB134921.1
D10S215	Z16914	D16S0159i	AB134575.1	D20S0156i	AB134926.1
D10S216	Z16927	D16S0160i	AB134576.1	D20S0157i	AB134927.1
D10S217	Z16970	D16S0161i	AB134577.1	D20S0158i	AB134928.1
D10S218	Z17000	D16S0162i	AB134578.1	D20S0159i	AB134929.1
D10S220	Z17087	D16S0163i	AB134579.1	D20S0160i	AB134931.1
D10S222	Z17132	D16S0164i	AB134580.1	D20S0161i	AB134932.1
D10S224	Z17143	D16S0165i	AB134586.1	D20S0162i	AB134933.1

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D10S249	Z17255	D16S0166i	AB134587.1	D20S0163i	AB134935.1
D10S529	Z23410	D16S0167i	AB134588.1	D20S0164i	AB134936.1
D10S530	Z23432	D16S0168i	AB134590.1	D20S0165i	AB134937.1
D10S533	Z23305	D16S0169i	AB134591.1	D20S0166i	AB134938.1
D10S534	Z23487	D16S0170i	AB134593.1	D20S0167i	AB134940.1
D10S535	Z23507	D16S0171i	AB134595.1	D20S0168i	AB134941.1
D10S536	Z23289	D16S0172i	AB137420.1	D20S0169i	AB134943.1
D10S537	Z23531	D16S0173i	AB137423.1	D20S0170i	AB134945.1
D10S538	Z23540	D16S0174i	AB137427.1	D20S0171i	AB134946.1
D10S539	Z23543	D16S0175i	AB137430.1	D20S0172i	AB134947.1
D10S540	Z23548	D16S0177i	AB137433.1	D20S0173i	AB134948.1
D10S541	Z23549	D16S0178i	AB137434.1	D20S0174i	AB134949.1

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D10S543	Z23581	D16S0179i	AB137435.1	D20S0175i	AB134951.1
D10S545	Z23605	D16S0180i	AB137436.1	D20S0176i	AB134952.1
D10S547	Z23634	D16S0181i	AB137438.1	D20S0177i	AB134957.1
D10S548	Z23664	D16S0182i	AB137441.1	D20S0178i	AB134962.1
D10S549	Z23716	D16S0183i	AB137442.1	D20S0179i	AB134963.1
D10S550	Z23740	D16S0184i	AB137444.1	D20S0180i	AB134964.1
D10S551	Z23759	D16S0185i	AB137446.1	D20S0181i	AB134965.1
D10S552	Z23766	D16S0186i	AB137447.1	D20S0182i	AB134967.1
D10S553	Z23769	D16S0187i	AB137448.1	D20S0183i	AB134968.1
D10S556	Z23794	D16S0188i	AB137449.1	D20S0184i	AB134970.1
D10S557	Z23337	D16S0189i	AB137450.1	D20S0185i	AB134972.1
D10S560	Z23816	D16S0190i	AB137453.1	D20S0186i	AB134973.1

D10S561	Z23827	D16S0191i	AB137454.1	D20S0187i	AB134977.1
D10S562	Z23841	D16S0192i	AB137455.1	D20S0188i	AB134978.1
D10S564	Z23295	D16S0193i	AB137458.1	D20S0189i	AB134979.1
D10S565	Z23391	D16S0194i	AB137460.1	D20S0190i	AB134980.1
D10S566	Z23404	D16S0195i	AB137461.1	D20S0191i	AB134981.1
D10S568	Z23879	D16S0197i	AB137464.1	D20S0192i	AB134982.1
D10S569	Z23887	D16S0198i	AB137465.1	D20S0193i	AB134983.1
D10S570	Z23909	D16S0199i	AB137466.1	D20S0194i	AB134984.1
D10S571	Z23913	D16S0200i	AB137468.1	D20S0195i	AB134985.1
D10S577	Z23964	D16S0202i	AB137687.1	D20S0196i	AB134988.1
D10S579	Z24011	D16S0203i	AB137802.1	D20S0197i	AB134990.1
D10S581	Z24060	D16S0204i	AB137924.1	D20S0199i	AB134992.1

D10S582	Z24087	D16S0205i	AB138067.1	D20S0200i	AB134993.1
D10S583	Z24088	D16S0206i	AB138068.1	D20S0201i	AB134995.1
D10S588	Z24201	D16S0207i	AB138069.1	D20S0202i	AB134996.1
D10S589	Z24220	D16S0208i	AB138070.1	D20S0203i	AB134997.1
D10S590	Z24249	D16S0209i	AB138071.1	D20S0206i	AB135000.1
D10S591	Z24285	D16S0210i	AB138072.1	D20S0207i	AB135001.1
D10S593	Z24310	D16S0211i	AB138074.1	D20S0208i	AB135003.1
D10S595	Z24401	D16S0212i	AB138076.1	D20S0211i	AB129141.1
D10S597	Z24428	D16S0213i	AB138077.1	D20S0212i	AB135007.1
D10S599	Z24447	D16S0214i	AB138078.1	D20S0213i	AB135008.1
D10S600	Z24549	D16S0215i	AB138079.1	D20S0214i	AB135009.1
D10S601	Z24559	D16S0216i	AB138080.1	D20S0215i	AB135015.1



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D10S603	Z24596	D16S0217i	AB138081.1	D20S0216i	AB135016.1
D10S604	Z24610	D16S0218i	AB138084.1	D20S0217i	AB135017.1
D10S605	Z24614	D16S0219i	AB138188.1	D20S0218i	AB135022.1
D10S606	Z24640	D16S0220i	AB139734.1	D20S0219i	AB135023.1
D10S609	G08791	D16S0221i	AB139735.1	D20S0220i	AB135028.1
D10S674	G08805	D16S0222i	AB139736.1	D20S0221i	AB135029.1
D11S0001i	AB129574.1	D16S0223i	AB139741.1	D20S0222i	AB129142.1
D11S0002i	AB129575.1	D16S0224i	AB139742.1	D20S0223i	AB135031.1
D11S0003i	AB129576.1	D16S0225i	AB139743.1	D20S0224i	AB135032.1
D11S0004i	AB129578.1	D16S0226i	AB139750.1	D20S0225i	AB135038.1
D11S0005i	AB129579.1	D16S0227i	AB139751.1	D20S0226i	AB135045.1
D11S0006i	AB129582.1	D16S0228i	AB139757.1	D20S0227i	AB135046.1

D11S0007i	AB129584.1	D16S0229i	AB139759.1	D20S0228i	AB135047.1
D11S0008i	AB129585.1	D16S0230i	AB139764.1	D20S0229i	AB135051.1
D11S0009i	AB129934.1	D16S0231i	AB139768.1	D20S0230i	AB135052.1
D11S0010i	AB129945.1	D16S0232i	AB139769.1	D20S0231i	AB135053.1
D11S0011i	AB130705.1	D16S0233i	AB139770.1	D20S0232i	AB135054.1
D11S0012i	AB133640.1	D16S0234i	AB139775.1	D20S0233i	AB135055.1
D11S0013i	AB133647.1	D16S0235i	AB139776.1	D20S0234i	AB136703.1
D11S0014i	AB133648.1	D16S0236i	AB139781.1	D20S0235i	AB136895.1
D11S0015i	AB133660.1	D16S0237i	AB139782.1	D20S0236i	AB136896.1
D11S0016i	AB133674.1	D16S0238i	AB141340.1	D20S0237i	AB136900.1
D11S0017i	AB133675.1	D16S0239i	AB141341.1	D20S0238i	AB136907.1
D11S0018i	AB133676.1	D16S0241i	AB141346.1	D20S0239i	AB136912.1

D11S0020i	AB133688.1	D16S0242i	AB141349.1	D20S0240i	AB136918.1
D11S0021i	AB133689.1	D16S0243i	AB141350.1	D20S0241i	AB136922.1
D11S0022i	AB133690.1	D16S0244i	AB141357.1	D20S0242i	AB136923.1
D11S0023i	AB133691.1	D16S0245i	AB141358.1	D20S0243i	AB136928.1
D11S0024i	AB133692.1	D16S0246i	AB141361.1	D20S0244i	AB136929.1
D11S0025i	AB133693.1	D16S0247i	AB141362.1	D20S0245i	AB136935.1
D11S0026i	AB133694.1	D16S0248i	AB141368.1	D20S0246i	AB136936.1
D11S0027i	AB133696.1	D16S0249i	AB141373.1	D20S0248i	AB136941.1
D11S0028i	AB133697.1	D16S0250i	AB141381.1	D20S0249i	AB136945.1
D11S0029i	AB133699.1	D16S0251i	AB141388.1	D20S0250i	AB136947.1
D11S0031i	AB133703.1	D16S0253i	AB143232.1	D20S0251i	AB136948.1
D11S0033i	AB133707.1	D16S0254i	AB143233.1	D20S0252i	AB141377.1

D11S0034i	AB133708.1	D16S0255i	AB143234.1	D20S0253i	AB141399.1
D11S0035i	AB133709.1	D16S0256i	AB143235.1	D20S0254i	AB141405.1
D11S0036i	AB133710.1	D16S0257i	AB143236.1	D20S0255i	AB143674.1
D11S0037i	AB133711.1	D16S0258i	AB143237.1	D20S0256i	AB143685.1
D11S0039i	AB133717.1	D16S0259i	AB143239.1	D20S0257i	AB143689.1
D11S0040i	AB133718.1	D16S0261i	AB143242.1	D20S0258i	AB143696.1
D11S0041i	AB133720.1	D16S0262i	AB143243.1	D20S0259i	AB143702.1
D11S0042i	AB133722.1	D16S0263i	AB143248.1	D20S0260i	AB143703.1
D11S0043i	AB133724.1	D16S0264i	AB143250.1	D20S0261i	AB143704.1
D11S0044i	AB133725.1	D16S0265i	AB143251.1	D20S0262i	AB143705.1
D11S0045i	AB133726.1	D16S0266i	AB143253.1	D20S0263i	AB143706.1
D11S0046i	AB133727.1	D16S0267i	AB143254.1	D20S0264i	AB143707.1

D11S0047i	AB133728.1	D16S0268i	AB143255.1	D20S0265i	AB143708.1
D11S0048i	AB133730.1	D16S0269i	AB129309.1	D20S0266i	AB129022.1
D11S0049i	AB133731.1	D16S0270i	AB143256.1	D20S0267i	AB143709.1
D11S0050i	AB133735.1	D16S0271i	AB143257.1	D20S0268i	AB143710.1
D11S0051i	AB133737.1	D16S0272i	AB143258.1	D20S0269i	AB143711.1
D11S0053i	AB133742.1	D16S0273i	AB143259.1	D20S0270i	AB143712.1
D11S0054i	AB133746.1	D16S0274i	AB143260.1	D20S0271i	AB143713.1
D11S0055i	AB133747.1	D16S0275i	AB143261.1	D20S0272i	AB143714.1
D11S0056i	AB133749.1	D16S0276i	AB143262.1	D20S0273i	AB143715.1
D11S0057i	AB133750.1	D16S0277i	AB143263.1	D20S0274i	AB143716.1
D11S0058i	AB133751.1	D16S0278i	AB143264.1	D20S0275i	AB143717.1
D11S0059i	AB133755.1	D16S0279i	AB143265.1	D20S0276i	AB143718.1

D11S0060i	AB133757.1	D16S0280i	AB143266.1	D20S0277i	AB143719.1
D11S0062i	AB133759.1	D16S0281i	AB143267.1	D20S0278i	AB143720.1
D11S0064i	AB133761.1	D16S0282i	AB143268.1	D20S0279i	AB143721.1
D11S0065i	AB133763.1	D16S0283i	AB143269.1	D20S0280i	AB143722.1
D11S0068i	AB133767.1	D16S0285i	AB143271.1	D20S0281i	AB143723.1
D11S0069i	AB133768.1	D16S0286i	AB143272.1	D20S0282i	AB143724.1
D11S0071i	AB133770.1	D16S0287i	AB143273.1	D20S0283i	AB143725.1
D11S0072i	AB133771.1	D16S0288i	AB143274.1	D20S0284i	AB143726.1
D11S0074i	AB133773.1	D16S0289i	AB143275.1	D20S0285i	AB143727.1
D11S0075i	AB133775.1	D16S0290i	AB143276.1	D20S0286i	AB143728.1
D11S0076i	AB133776.1	D16S0291i	AB143277.1	D20S0287i	AB143729.1
D11S0077i	AB133777.1	D16S0292i	AB143278.1	D20S0288i	AB143730.1

D11S0078i	AB133790.1	D16S0293i	AB143279.1	D20S0289i	AB143731.1
D11S0079i	AB133811.1	D16S0295i	AB143281.1	D20S0290i	AB143732.1
D11S0080i	AB137038.1	D16S0296i	AB143282.1	D20S0291i	AB143733.1
D11S0081i	AB138275.1	D16S0297i	AB143283.1	D20S0292i	AB129023.1
D11S0082i	AB138728.1	D16S0298i	AB143284.1	D20S0293i	AB143734.1
D11S0083i	AB139091.1	D16S0299i	AB143285.1	D20S0294i	AB143735.1
D11S0085i	AB139436.1	D16S0300i	AB143286.1	D20S0295i	AB143736.1
D11S0087i	AB139737.1	D16S0301i	AB143287.1	D20S0296i	AB143737.1
D11S0088i	AB139738.1	D16S0302i	AB143289.1	D20S0297i	AB143738.1
D11S0089i	AB139739.1	D16S0303i	AB143292.1	D20S0298i	AB143739.1
D11S0090i	AB139740.1	D16S0304i	AB143294.1	D20S0299i	AB143740.1
D11S0091i	AB139744.1	D16S0306i	AB143297.1	D20S0300i	AB143742.1

D11S0092i	AB139746.1	D16S0307i	AB143298.1	D20S0301i	AB143743.1
D11S0093i	AB139747.1	D16S0308i	AB143301.1	D20S0302i	AB143744.1
D11S0094i	AB139749.1	D16S0309i	AB143302.1	D20S0303i	AB143745.1
D11S0095i	AB139753.1	D16S0310i	AB143303.1	D20S0304i	AB143746.1
D11S0096i	AB139754.1	D16S0311i	AB143306.1	D20S0305i	AB143747.1
D11S0097i	AB139755.1	D16S0312i	AB143307.1	D20S0307i	AB129319.1
D11S0098i	AB139756.1	D16S0313i	AB143310.1	D20S0308i	AB143749.1
D11S0099i	AB139760.1	D16S0314i	AB143311.1	D20S0309i	AB143751.1
D11S0100i	AB139761.1	D16S0315i	AB143312.1	D20S0310i	AB143752.1
D11S0101i	AB139762.1	D16S0316i	AB145862.1	D20S0311i	AB143754.1
D11S0102i	AB139765.1	D16S0317i	AB145863.1	D20S0313i	AB143756.1
D11S0103i	AB139766.1	D16S0318i	AB145864.1	D20S0314i	AB143757.1



D11S0104i	AB139767.1	D16S0319i	AB145866.1	D20S0315i	AB143758.1
D11S0105i	AB139771.1	D16S0320i	AB145868.1	D20S0316i	AB146032.1
D11S0106i	AB139772.1	D16S0321i	AB145869.1	D20S0317i	AB146034.1
D11S0107i	AB139773.1	D16S0322i	AB145873.1	D20S0318i	AB146038.1
D11S0108i	AB139774.1	D16S0323i	AB145876.1	D20S0319i	AB146317.1
D11S0109i	AB139777.1	D16S0324i	AB145877.1	D20S0320i	AB146318.1
D11S0110i	AB139778.1	D16S0325i	AB145881.1	D20S0321i	AB146319.1
D11S0111i	AB139779.1	D16S0326i	AB145882.1	D20S0322i	AB146324.1
D11S0112i	AB139780.1	D16S0327i	AB145883.1	D20S0323i	AB146327.1
D11S0113i	AB139783.1	D16S0328i	AB145885.1	D20S0324i	AB146328.1
D11S0114i	AB139784.1	D16S0329i	AB145886.1	D20S0325i	AB129376.1
D11S0115i	AB139786.1	D16S0330i	AB145888.1	D20S0326i	AB146335.1

D11S0116i	AB139787.1	D16S0331i	AB145892.1	D20S0327i	AB146336.1
D11S0117i	AB139788.1	D16S0332i	AB145893.1	D20S0328i	AB146337.1
D11S0118i	AB139789.1	D16S0333i	AB145894.1	D20S0329i	AB129377.1
D11S0119i	AB139790.1	D16S0334i	AB145895.1	D20S0330i	AB146344.1
D11S0120i	AB139791.1	D16S0335i	AB145896.1	D20S0331i	AB146345.1
D11S0121i	AB139792.1	D16S0336i	AB145897.1	D20S0332i	AB146346.1
D11S0122i	AB139793.1	D16S0337i	AB145898.1	D20S0335i	AB146355.1
D11S0123i	AB139794.1	D16S0338i	AB145899.1	D20S0336i	AB146356.1
D11S0124i	AB139795.1	D16S0339i	AB145900.1	D20S0337i	AB146980.1
D11S0126i	AB139797.1	D16S0340i	AB145901.1	D20S0338i	AB146995.1
D11S0127i	AB139798.1	D16S0341i	AB145902.1	D20S0339i	AB147005.1
D11S0128i	AB139799.1	D16S0342i	AB145903.1	D20S0340i	AB147028.1

D11S0129i	AB139800.1	D16S0343i	AB145904.1	D20S0341i	AB147035.1
D11S0130i	AB139801.1	D16S0344i	AB145905.1	D20S0342i	AB147065.1
D11S0131i	AB139802.1	D16S0345i	AB145906.1	D20S100	Z16487
D11S0132i	AB139803.1	D16S0346i	AB129370.1	D20S102	Z16514
D11S0133i	AB139804.1	D16S0347i	AB145908.1	D20S103	Z16528
D11S0134i	AB139805.1	D16S0348i	AB145909.1	D20S104	Z16570
D11S0135i	AB139807.1	D16S0349i	AB145911.1	D20S106	Z16632
D11S0136i	AB139808.1	D16S0350i	AB145914.1	D20S108	Z16725
D11S0137i	AB139810.1	D16S0351i	AB145915.1	D20S110	Z16791
D11S0139i	AB139814.1	D16S0352i	AB145916.1	D20S112	Z16842
D11S0140i	AB139815.1	D16S0353i	AB145917.1	D20S113	Z16911
D11S0141i	AB139816.1	D16S0354i	AB145918.1	D20S114	Z16950

D11S0142i	AB139817.1	D16S0355i	AB145890.1	D20S117	Z17123
D11S0143i	AB139818.1	D16S0356i	AB145919.1	D20S119	Z17198
D11S0145i	AB139820.1	D16S0357i	AB145920.1	D20S120	Z17202
D11S0146i	AB139821.1	D16S0359i	AB145924.1	D20S171	Z23313
D11S0147i	AB139822.1	D16S0360i	AB145925.1	D20S172	Z23610
D11S0148i	AB139823.1	D16S0361i	AB145926.1	D20S173	Z23656
D11S0149i	AB139824.1	D16S0362i	AB145927.1	D20S175	Z23728
D11S0150i	AB139825.1	D16S0363i	AB146225.1	D20S176	Z23738
D11S0151i	AB139826.1	D16S0364i	AB146231.1	D20S181	Z23780
D11S0152i	AB139827.1	D16S0365i	AB146238.1	D20S182	Z23791
D11S0153i	AB139828.1	D16S0366i	AB146250.1	D20S186	Z23375
D11S0154i	AB139829.1	D16S0367i	AB146251.1	D20S188	Z24074

D11S0155i	AB139831.1	D16S0368i	AB146256.1	D20S193	Z24264
D11S0156i	AB139832.1	D16S0369i	AB146257.1	D20S194	Z24330
D11S0157i	AB139833.1	D16S0370i	AB146263.1	D20S198	Z24439
D11S0158i	AB139834.1	D16S0371i	AB146264.1	D20S199	Z24636
D11S0159i	AB139835.1	D16S0372i	AB146920.1	D20S200	Z24666
D11S0160i	AB139836.1	D16S0373i	AB146921.1	D20S208	G09215
D11S0161i	AB139837.1	D16S0374i	AB146925.1	D20S470	G08061
D11S0162i	AB139838.1	D16S0375i	AB146926.1	D20S472	G8040
D11S0163i	AB139839.1	D16S0376i	AB146931.1	D20S478	G08048
D11S0164i	AB139840.1	D16S0377i	AB146946.1	D20S481	G08051
D11S0165i	AB139841.1	D16S3017	Z52036	D20S484	G08054
D11S0166i	AB139842.1	D16S3020	Z52182	D20S486	G08063

D11S0167i	AB139843.1	D16S3021	Z52205	D20S834	Z52150
D11S0168i	AB139844.1	D16S3023	Z52226	D20S836	Z52210
D11S0169i	AB139845.1	D16S3024	Z52227	D20S838	Z52250
D11S0170i	AB139846.1	D16S3025	Z52283	D20S842	Z52353
D11S0171i	AB139847.1	D16S3026	Z51035	D20S843	Z52365
D11S0173i	AB139849.1	D16S3028	Z52326	D20S845	Z52436
D11S0174i	AB139850.1	D16S3029	Z52358	D20S847	Z52452
D11S0175i	AB139851.1	D16S3030	Z52360	D20S849	Z52536
D11S0176i	AB139852.1	D16S3032	Z52374	D20S851	Z52544
D11S0177i	AB139853.1	D16S3033	Z52379	D20S854	Z52636
D11S0178i	AB139856.1	D16S3034	Z52393	D20S855	Z52646
D11S0179i	AB139857.1	D16S3035	Z52398	D20S856	Z52662

D11S0180i	AB139858.1	D16S3037	Z52429	D20S857	Z52686
D11S0181i	AB139859.1	D16S3038	Z52435	D20S859	Z51097
D11S0183i	AB139861.1	D16S3039	Z52453	D20S860	Z52923
D11S0184i	AB139862.1	D16S3040	Z52473	D20S861	Z52927
D11S0185i	AB129012.1	D16S3041	Z51058	D20S863	Z52933
D11S0186i	AB139864.1	D16S3042	Z52486	D20S864	Z52952
D11S0187i	AB139865.1	D16S3043	Z52558	D20S867	Z53139
D11S0188i	AB139866.1	D16S3044	Z52569	D20S869	Z51140
D11S0189i	AB139867.1	D16S3046	Z52626	D20S871	Z53183
D11S0190i	AB139869.1	D16S3048	Z52669	D20S873	Z53241
D11S0191i	AB139870.1	D16S3052	Z52719	D20S875	Z53252
D11S0192i	AB139871.1	D16S3053	Z52730	D20S877	Z53272

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D11S0193i	AB139872.1	D16S3055	Z52761	D20S878	Z53309
D11S0194i	AB139873.1	D16S3056	Z52769	D20S879	Z53313
D11S0195i	AB139874.1	D16S3057	Z52833	D20S880	Z51163
D11S0197i	AB129226.1	D16S3058	Z52841	D20S882	Z53348
D11S0198i	AB139876.1	D16S3059	Z51108	D20S883	Z51169
D11S0199i	AB139878.1	D16S3060	Z52849	D20S885	Z53404
D11S0200i	AB139879.1	D16S3062	Z52869	D20S886	Z53418
D11S0201i	AB139881.1	D16S3064	Z52890	D20S889	Z51190
D11S0202i	AB139882.1	D16S3065	Z52903	D20S891	Z53706
D11S0203i	AB139883.1	D16S3066	Z52946	D20S892	Z53766
D11S0204i	AB139886.1	D16S3067	Z52957	D20S893	Z53767
D11S0205i	AB139887.1	D16S3071	Z53077	D20S894	Z53794



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D11S0206i	AB139888.1	D16S3074	Z53099	D20S895	Z53825
D11S0207i	AB139889.1	D16S3077	Z53218	D20S896	Z51241
D11S0208i	AB139890.1	D16S3078	Z53220	D20S900	Z54015
D11S0209i	AB139891.1	D16S3079	Z53227	D20S901	Z54024
D11S0210i	AB139892.1	D16S3080	Z53254	D20S902	Z54064
D11S0211i	AB139893.1	D16S3082	Z53260	D20S904	Z51285
D11S0212i	AB139894.1	D16S3083	Z53288	D20S905	Z51320
D11S0213i	AB139895.1	D16S3084	Z53290	D20S906	Z51450
D11S0214i	AB139896.1	D16S3085	Z53294	D20S907	Z51479
D11S0215i	AB139897.1	D16S3086	Z53298	D20S908	Z51482
D11S0216i	AB139898.1	D16S3088	Z53315	D20S910	Z51724
D11S0217i	AB139899.1	D16S3089	Z53336	D20S914	Z51876

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D11S0219i	AB139902.1	D16S3090	Z53368	D20S915	Z51903
D11S0220i	AB139903.1	D16S3093	Z53476	D20S917	Z51976
D11S0221i	AB139904.1	D16S3094	Z53520	D20S95	Z16434
D11S0222i	AB139905.1	D16S3095	Z53537	D20S98	Z16471
D11S0223i	AB139906.1	D16S3099	Z53605	D21S0001i	AB129681.1
D11S0224i	AB139907.1	D16S3100	Z53622	D21S0002i	AB129686.1
D11S0225i	AB139908.1	D16S3101	Z53663	D21S0003i	AB129693.1
D11S0226i	AB139909.1	D16S3102	Z53684	D21S0004i	AB129696.1
D11S0227i	AB139910.1	D16S3103	Z53718	D21S0005i	AB129697.1
D11S0228i	AB139911.1	D16S3105	Z53747	D21S0006i	AB129702.1
D11S0229i	AB139912.1	D16S3106	Z53781	D21S0007i	AB129706.1
D11S0230i	AB139913.1	D16S3108	Z53792	D21S0008i	AB129707.1

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D11S0231i	AB139914.1	D16S3111	Z53903	D21S0010i	AB129717.1
D11S0232i	AB139916.1	D16S3112	Z53907	D21S0011i	AB129719.1
D11S0233i	AB139917.1	D16S3117	Z51270	D21S0012i	AB129724.1
D11S0234i	AB139918.1	D16S3118	Z50923	D21S0013i	AB129729.1
D11S0235i	AB139919.1	D16S3121	Z51463	D21S0014i	AB129989.1
D11S0237i	AB139921.1	D16S3122	Z50939	D21S0015i	AB129996.1
D11S0238i	AB139922.1	D16S3124	Z51537	D21S0016i	AB130002.1
D11S0239i	AB139923.1	D16S3125	Z51559	D21S0017i	AB130009.1
D11S0240i	AB139924.1	D16S3126	Z51561	D21S0018i	AB130010.1
D11S0241i	AB139925.1	D16S3129	Z51624	D21S0020i	AB129040.1
D11S0242i	AB139926.1	D16S3130	Z51631	D21S0021i	AB130001.1
D11S0244i	AB139928.1	D16S3131	Z51639	D21S0022i	AB130934.1

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D11S0245i	AB139929.1	D16S3132	Z51645	D21S0023i	AB130935.1
D11S0247i	AB139931.1	D16S3135	Z51759	D21S0024i	AB130936.1
D11S0248i	AB139932.1	D16S3137	Z51787	D21S0025i	AB130938.1
D11S0249i	AB139933.1	D16S3139	Z51834	D21S0026i	AB130939.1
D11S0250i	AB139934.1	D16S3140	Z51859	D21S0027i	AB130940.1
D11S0251i	AB139936.1	D16S3141	Z51869	D21S0028i	AB130941.1
D11S0252i	AB139937.1	D16S3142	Z51946	D21S0030i	AB130944.1
D11S0253i	AB139938.1	D16S3143	Z51959	D21S0031i	AB130945.1
D11S0254i	AB139939.1	D16S3144	Z50995	D21S0032i	AB130948.1
D11S0255i	AB139940.1	D16S3145	Z50996	D21S0033i	AB130950.1
D11S0256i	AB139941.1	D16S403	Z16477	D21S0034i	AB130951.1
D11S0257i	AB139942.1	D16S404	Z16486	D21S0035i	AB129060.1

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D11S0258i	AB139943.1	D16S407	Z16594	D21S0036i	AB130953.1
D11S0260i	AB139945.1	D16S410	Z16752	D21S0037i	AB130954.1
D11S0261i	AB139946.1	D16S416	Z16959	D21S0038i	AB130955.1
D11S0263i	AB139948.1	D16S417	Z16998	D21S0039i	AB130956.1
D11S0264i	AB139949.1	D16S418	Z17025	D21S0040i	AB130957.1
D11S0265i	AB139950.1	D16S420	Z17069	D21S0041i	AB130958.1
D11S0266i	AB139951.1	D16S421	Z17094	D21S0042i	AB129061.1
D11S0267i	AB139952.1	D16S423	Z17137	D21S0043i	AB130959.1
D11S0268i	AB139953.1	D16S494	Z23469	D21S0044i	AB130963.1
D11S0269i	AB139954.1	D16S497	Z23659	D21S0045i	AB130965.1
D11S0270i	AB139955.1	D16S500	Z23365	D21S0046i	AB130971.1
D11S0271i	AB139956.1	D16S502	Z23891	D21S0047i	AB130974.1

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D11S0272i	AB139959.1	D16S503	Z23950	D21S0049i	AB130981.1
D11S0273i	AB139960.1	D16S506	Z24188	D21S0050i	AB134789.1
D11S0274i	AB139961.1	D16S507	Z24216	D21S0051i	AB135010.1
D11S0275i	AB139963.1	D16S509	Z24270	D21S0052i	AB135012.1
D11S0276i	AB139964.1	D16S510	Z24314	D21S0053i	AB135013.1
D11S0277i	AB139965.1	D16S512	Z24362	D21S0054i	AB135014.1
D11S0278i	AB139966.1	D16S514	Z24419	D21S0055i	AB135020.1
D11S0279i	AB139967.1	D16S515	Z24558	D21S0056i	AB135021.1
D11S0280i	AB139968.1	D16S516	Z24594	D21S0057i	AB135025.1
D11S0281i	AB139969.1	D16S517	Z24643	D21S0058i	AB135026.1
D11S0282i	AB139970.1	D16S521	Z24661	D21S0059i	AB135027.1
D11S0283i	AB139971.1	D16S540	G07935	D21S0060i	AB135030.1

D11S0284i	AB139972.1	D16S738	Z67763	D21S0061i	AB135033.1
D11S0285i	AB139973.1	D16S739	Z67829	D21S0062i	AB135034.1
D11S0286i	AB139974.1	D16S748	G07921	D21S0063i	AB135040.1
D11S0287i	AB139975.1	D16S766	G09961	D21S0064i	AB135041.1
D11S0288i	AB139976.1	D16S771	G07941	D21S0065i	AB135043.1
D11S0289i	AB139977.1	D17S0001i	AB129597.1	D21S0066i	AB135044.1
D11S0290i	AB139978.1	D17S0002i	AB129601.1	D21S0067i	AB135048.1
D11S0291i	AB139980.1	D17S0003i	AB129602.1	D21S0068i	AB135049.1
D11S0292i	AB139981.1	D17S0004i	AB129620.1	D21S0069i	AB135050.1
D11S0293i	AB139982.1	D17S0005i	AB129622.1	D21S0070i	AB135056.1
D11S0294i	AB139983.1	D17S0006i	AB129623.1	D21S0071i	AB135057.1
D11S0295i	AB139984.1	D17S0007i	AB129627.1	D21S0072i	AB135058.1

D11S0296i	AB139985.1	D17S0008i	AB129628.1	D21S0073i	AB135059.1
D11S0297i	AB139986.1	D17S0009i	AB129630.1	D21S0074i	AB135060.1
D11S0299i	AB139988.1	D17S0010i	AB129635.1	D21S0075i	AB135061.1
D11S0300i	AB139989.1	D17S0011i	AB129636.1	D21S0076i	AB135062.1
D11S0301i	AB139990.1	D17S0012i	AB129638.1	D21S0077i	AB135063.1
D11S0302i	AB139991.1	D17S0013i	AB129643.1	D21S0078i	AB135064.1
D11S0303i	AB139992.1	D17S0016i	AB129657.1	D21S0079i	AB135065.1
D11S0304i	AB139993.1	D17S0017i	AB129660.1	D21S0080i	AB135066.1
D11S0305i	AB139994.1	D17S0018i	AB129661.1	D21S0081i	AB135068.1
D11S0306i	AB139995.1	D17S0019i	AB129953.1	D21S0082i	AB135069.1
D11S0307i	AB139996.1	D17S0020i	AB129957.1	D21S0083i	AB135071.1
D11S0308i	AB139997.1	D17S0021i	AB129958.1	D21S0084i	AB135072.1



D11S0309i	AB139999.1	D17S0022i	AB129961.1	D21S0085i	AB135073.1
D11S0310i	AB140000.1	D17S0023i	AB129038.1	D21S0086i	AB135075.1
D11S0311i	AB140002.1	D17S0024i	AB129965.1	D21S0087i	AB135076.1
D11S0312i	AB140004.1	D17S0025i	AB129970.1	D21S0088i	AB135077.1
D11S0313i	AB140005.1	D17S0026i	AB129971.1	D21S0089i	AB135078.1
D11S0314i	AB140006.1	D17S0027i	AB129972.1	D21S0090i	AB135080.1
D11S0315i	AB140007.1	D17S0028i	AB129976.1	D21S0091i	AB135081.1
D11S0316i	AB129228.1	D17S0029i	AB129977.1	D21S0092i	AB135082.1
D11S0317i	AB140009.1	D17S0030i	AB129979.1	D21S0093i	AB135083.1
D11S0318i	AB140010.1	D17S0031i	AB129980.1	D21S0094i	AB135084.1
D11S0319i	AB140013.1	D17S0032i	AB129983.1	D21S0096i	AB135091.1
D11S0320i	AB140014.1	D17S0033i	AB130761.1	D21S0097i	AB135094.1

D11S0321i	AB140015.1	D17S0034i	AB130762.1	D21S0098i	AB135095.1
D11S0322i	AB140016.1	D17S0035i	AB130765.1	D21S0099i	AB135097.1
D11S0323i	AB140018.1	D17S0036i	AB130767.1	D21S0100i	AB135098.1
D11S0324i	AB140020.1	D17S0037i	AB129056.1	D21S0101i	AB135099.1
D11S0325i	AB140021.1	D17S0038i	AB130768.1	D21S0102i	AB135100.1
D11S0326i	AB140022.1	D17S0039i	AB130770.1	D21S0103i	AB135101.1
D11S0327i	AB140023.1	D17S0040i	AB130773.1	D21S0104i	AB135103.1
D11S0328i	AB140024.1	D17S0041i	AB130774.1	D21S0105i	AB135104.1
D11S0330i	AB140026.1	D17S0042i	AB130775.1	D21S0106i	AB135106.1
D11S0331i	AB140030.1	D17S0044i	AB130777.1	D21S0107i	AB135107.1
D11S0332i	AB140031.1	D17S0045i	AB130778.1	D21S0108i	AB135108.1
D11S0333i	AB140035.1	D17S0046i	AB130780.1	D21S0109i	AB135109.1

D11S0334i	AB140036.1	D17S0047i	AB130781.1	D21S0120i	AB135122.1
D11S0335i	AB140037.1	D17S0048i	AB130783.1	D21S0121i	AB135124.1
D11S0336i	AB140038.1	D17S0049i	AB130784.1	D21S0122i	AB135125.1
D11S0337i	AB140039.1	D17S0050i	AB130785.1	D21S0123i	AB135126.1
D11S0339i	AB140045.1	D17S0051i	AB130786.1	D21S0124i	AB135127.1
D11S0340i	AB140046.1	D17S0053i	AB130789.1	D21S0125i	AB135129.1
D11S0342i	AB140055.1	D17S0054i	AB130790.1	D21S0126i	AB135130.1
D11S0343i	AB140056.1	D17S0055i	AB130791.1	D21S0127i	AB135131.1
D11S0344i	AB140060.1	D17S0056i	AB130792.1	D21S0128i	AB135132.1
D11S0345i	AB140061.1	D17S0057i	AB130793.1	D21S0129i	AB135134.1
D11S0346i	AB140064.1	D17S0058i	AB130794.1	D21S0130i	AB135135.1
D11S0347i	AB140065.1	D17S0059i	AB130795.1	D21S0131i	AB135136.1

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D11S0563i	AB143223.1	D17S0276i	AB142439.1	D22S0076i	AB135214.1
D11S0564i	AB143224.1	D17S0277i	AB142440.1	D22S0077i	AB135216.1
D11S0565i	AB143225.1	D17S0278i	AB142441.1	D22S0078i	AB135218.1

D11S0566i	AB143226.1	D17S0279i	AB142442.1	D22S0079i	AB135220.1
D11S0567i	AB143227.1	D17S0281i	AB142444.1	D22S0080i	AB135222.1
D11S0568i	AB143228.1	D17S0282i	AB142445.1	D22S0081i	AB135223.1
D11S0569i	AB143229.1	D17S0283i	AB142446.1	D22S0082i	AB135225.1
D11S0571i	AB143231.1	D17S0284i	AB142447.1	D22S0083i	AB129146.1
D11S0572i	AB143238.1	D17S0285i	AB142448.1	D22S0085i	AB135227.1
D11S0573i	AB143241.1	D17S0286i	AB142449.1	D22S0086i	AB135228.1
D11S0574i	AB143244.1	D17S0287i	AB142450.1	D22S0087i	AB135229.1
D11S0575i	AB143245.1	D17S0288i	AB142451.1	D22S0088i	AB135230.1
D11S0576i	AB143249.1	D17S0290i	AB142453.1	D22S0089i	AB135231.1
D11S0577i	AB145581.1	D17S0291i	AB142457.1	D22S0090i	AB135232.1
D11S0578i	AB145586.1	D17S0292i	AB142458.1	D22S0091i	AB135235.1

D11S0579i	AB145592.1	D17S0294i	AB142462.1	D22S0094i	AB135238.1
D11S0580i	AB145596.1	D17S0295i	AB142466.1	D22S0095i	AB135239.1
D11S0581i	AB145601.1	D17S0296i	AB142469.1	D22S0096i	AB135240.1
D11S0582i	AB145610.1	D17S0297i	AB142470.1	D22S0097i	AB135241.1
D11S0583i	AB145611.1	D17S0298i	AB142471.1	D22S0098i	AB135243.1
D11S0584i	AB145614.1	D17S0299i	AB142472.1	D22S0099i	AB135244.1
D11S0585i	AB145615.1	D17S0300i	AB142473.1	D22S0100i	AB135245.1
D11S0586i	AB145616.1	D17S0301i	AB142474.1	D22S0101i	AB135246.1
D11S0587i	AB129365.1	D17S0302i	AB142475.1	D22S0103i	AB135249.1
D11S0588i	AB145617.1	D17S0303i	AB145907.1	D22S0104i	AB135250.1
D11S0589i	AB145618.1	D17S0305i	AB145912.1	D22S0105i	AB135251.1
D11S0590i	AB145619.1	D17S0306i	AB145913.1	D22S0106i	AB135252.1

D11S0591i	AB145620.1	D17S0307i	AB145922.1	D22S0107i	AB135253.1
D11S0592i	AB145621.1	D17S0308i	AB145923.1	D22S0108i	AB135255.1
D11S0593i	AB145622.1	D17S0309i	AB129371.1	D22S0109i	AB135257.1
D11S0594i	AB145623.1	D17S0310i	AB145928.1	D22S0110i	AB135258.1
D11S0595i	AB145624.1	D17S0312i	AB145930.1	D22S0111i	AB135259.1
D11S0596i	AB145625.1	D17S0313i	AB145931.1	D22S0112i	AB135260.1
D11S0597i	AB145626.1	D17S0314i	AB145932.1	D22S0113i	AB135262.1
D11S0598i	AB145627.1	D17S0315i	AB145933.1	D22S0114i	AB135263.1
D11S0599i	AB145629.1	D17S0317i	AB145935.1	D22S0115i	AB135264.1
D11S0600i	AB145630.1	D17S0318i	AB145936.1	D22S0116i	AB135265.1
D11S0601i	AB145631.1	D17S0319i	AB145937.1	D22S0117i	AB135266.1
D11S0602i	AB129366.1	D17S0320i	AB145938.1	D22S0118i	AB135267.1

D11S0603i	AB145632.1	D17S0322i	AB145940.1	D22S0119i	AB135270.1
D11S0604i	AB145633.1	D17S0323i	AB145941.1	D22S0120i	AB135271.1
D11S0605i	AB145634.1	D17S0324i	AB145942.1	D22S0121i	AB135272.1
D11S0606i	AB145635.1	D17S0325i	AB145943.1	D22S0122i	AB135273.1
D11S0607i	AB145636.1	D17S0326i	AB145944.1	D22S0123i	AB135274.1
D11S0608i	AB145637.1	D17S0327i	AB145945.1	D22S0124i	AB135275.1
D11S0609i	AB145638.1	D17S0328i	AB145946.1	D22S0125i	AB135277.1
D11S0610i	AB145639.1	D17S0329i	AB145947.1	D22S0126i	AB135279.1
D11S0611i	AB145640.1	D17S0331i	AB145949.1	D22S0127i	AB135280.1
D11S0612i	AB145641.1	D17S0332i	AB145950.1	D22S0128i	AB135281.1
D11S0613i	AB145642.1	D17S0333i	AB145951.1	D22S0129i	AB135283.1
D11S0614i	AB145643.1	D17S0334i	AB145952.1	D22S0130i	AB135284.1



D11S0615i	AB145644.1	D17S0335i	AB145953.1	D22S0131i	AB135286.1
D11S0616i	AB145645.1	D17S0336i	AB145954.1	D22S0132i	AB135287.1
D11S0617i	AB145646.1	D17S0337i	AB145955.1	D22S0133i	AB135288.1
D11S0618i	AB145647.1	D17S0338i	AB145956.1	D22S0134i	AB135290.1
D11S0620i	AB145650.1	D17S0339i	AB145957.1	D22S0135i	AB135293.1
D11S0621i	AB145651.1	D17S0340i	AB145958.1	D22S0136i	AB135294.1
D11S0622i	AB145652.1	D17S0341i	AB145959.1	D22S0137i	AB135295.1
D11S0623i	AB145653.1	D17S0342i	AB145960.1	D22S0138i	AB135297.1
D11S0625i	AB145660.1	D17S0343i	AB145962.1	D22S0139i	AB135298.1
D11S0626i	AB145664.1	D17S0345i	AB145968.1	D22S0140i	AB135305.1
D11S0627i	AB145665.1	D17S0346i	AB145974.1	D22S0141i	AB135308.1
D11S0628i	AB145666.1	D17S0347i	AB145991.1	D22S0142i	AB135309.1

D11S0629i	AB145668.1	D17S0348i	AB146217.1	D22S0143i	AB135310.1
D11S0630i	AB145669.1	D17S0349i	AB146226.1	D22S0144i	AB135311.1
D11S0631i	AB145670.1	D17S0350i	AB146232.1	D22S0146i	AB136931.1
D11S0632i	AB145671.1	D17S0351i	AB146233.1	D22S0147i	AB136934.1
D11S0633i	AB145672.1	D17S0352i	AB146239.1	D22S0148i	AB136946.1
D11S0634i	AB145677.1	D17S0353i	AB146244.1	D22S0149i	AB141395.1
D11S0635i	AB145987.1	D17S0354i	AB146245.1	D22S0150i	AB141403.1
D11S0636i	AB146014.1	D17S0355i	AB146258.1	D22S0151i	AB129024.1
D11S0637i	AB146158.1	D17S0356i	AB146265.1	D22S0152i	AB143789.1
D11S0638i	AB146159.1	D17S0357i	AB146937.1	D22S0153i	AB143790.1
D11S0639i	AB146163.1	D17S0359i	AB146939.1	D22S0154i	AB143791.1
D11S0640i	AB146164.1	D17S0361i	AB146948.1	D22S0155i	AB143792.1

D11S0641i	AB146165.1	D17S0362i	AB146959.1	D22S0156i	AB143794.1
D11S0642i	AB146170.1	D17S0363i	AB146960.1	D22S0158i	AB143796.1
D11S0643i	AB146171.1	D17S1288	G07942	D22S0159i	AB143797.1
D11S0644i	AB146172.1	D17S1290	G07956	D22S0160i	AB143798.1
D11S0645i	AB146177.1	D17S1291	G07963	D22S0161i	AB143800.1
D11S0646i	AB146178.1	D17S1293	G07965	D22S0162i	AB143801.1
D11S0647i	AB146183.1	D17S1294	G07967	D22S0163i	AB143803.1
D11S0648i	AB146184.1	D17S1297	G07949	D22S0164i	AB143804.1
D11S0649i	AB146192.1	D17S1298	G07948	D22S0165i	AB143805.1
D11S0650i	AB146199.1	D17S1300	G09584	D22S0166i	AB143806.1
D11S0651i	AB146207.1	D17S1303	G07957	D22S0167i	AB129321.1
D11S0652i	AB146823.1	D17S1304	G07960	D22S0168i	AB143807.1

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D11S0653i	AB146824.1	D17S1351	Z52975	D22S0169i	AB143809.1
D11S0654i	AB146831.1	D17S1352	Z52718	D22S0170i	AB143811.1
D11S0657i	AB146839.1	D17S1528	Z52970	D22S0171i	AB143813.1
D11S0658i	AB146840.1	D17S1529	Z50887	D22S0172i	AB143815.1
D11S0660i	AB146844.1	D17S1604	Z52344	D22S0173i	AB146035.1
D11S0661i	AB146851.1	D17S1606	Z51455	D22S0174i	AB146041.1
D11S0662i	AB146852.1	D17S1607	Z51610	D22S0175i	AB146054.1
D11S0664i	AB146860.1	D17S1785	Z52068	D22S0176i	AB129375.1
D11S0666i	AB146868.1	D17S1786	Z52082	D22S0177i	AB146329.1
D11S0667i	AB146875.1	D17S1792	Z52243	D22S0178i	AB146332.1
D11S0668i	AB146881.1	D17S1795	Z52317	D22S0179i	AB146338.1
D11S0669i	AB146884.1	D17S1797	Z52457	D22S0181i	AB146347.1

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D11S0670i	AB146892.1	D17S1799	Z52519	D22S0182i	AB146348.1
D11S0671i	AB146893.1	D17S1800	Z52522	D22S0183i	AB146352.1
D11S0673i	AB146902.1	D17S1801	Z52552	D22S0184i	AB146358.1
D11S1307	Z23425	D17S1802	Z52553	D22S0185i	AB147037.1
D11S1309	Z23501	D17S1809	Z52744	D22S0186i	AB147045.1
D11S1310	Z23518	D17S1815	Z52874	D22S1140	Z52275
D11S1312	Z23311	D17S1816	Z52883	D22S1141	Z52287
D11S1313	Z23608	D17S1817	Z52892	D22S1147	Z52583
D11S1314	Z23617	D17S1818	Z52895	D22S1148	Z52647
D11S1315	Z23620	D17S1821	Z53006	D22S1149	Z51084
D11S1316	Z23630	D17S1823	Z53016	D22S1150	Z52713
D11S1317	Z23631	D17S1825	Z53062	D22S1151	Z52795

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D11S1318	Z23655	D17S1827	Z53076	D22S1152	Z52800
D11S1319	Z23715	D17S1828	Z53084	D22S1153	Z52814
D11S1321	Z23744	D17S1829	Z53092	D22S1156	Z53026
D11S1323	Z23812	D17S1830	Z53114	D22S1161	Z53205
D11S1324	Z23339	D17S1832	Z53124	D22S1162	Z53393
D11S1326	Z23830	D17S1833	Z53137	D22S1163	Z53395
D11S1327	Z23832	D17S1834	Z53156	D22S1164	Z53458
D11S1328	Z23881	D17S1835	Z53172	D22S1165	Z53495
D11S1330	Z23927	D17S1836	Z53182	D22S1166	Z53521
D11S1331	Z23980	D17S1838	Z53219	D22S1167	Z53568
D11S1332	Z23998	D17S1839	Z53228	D22S1174	Z51327
D11S1334	Z24022	D17S1840	Z53231	D22S1176	Z51569

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D11S1335	Z24037	D17S1841	Z51161	D22S1177	Z51609
D11S1337	Z24080	D17S1842	Z51176	D22S272	Z16437
D11S1338	Z24082	D17S1843	Z53443	D22S273	Z16577
D11S1339	Z24106	D17S1844	Z53453	D22S274	Z16730
D11S1340	Z24150	D17S1846	Z53474	D22S275	Z16745
D11S1341	Z24156	D17S1848	Z53556	D22S276	Z16754
D11S1343	Z24175	D17S1850	Z53596	D22S277	Z16758
D11S1344	Z24193	D17S1852	Z53709	D22S278	Z16789
D11S1346	Z24350	D17S1853	Z53765	D22S283	Z17176
D11S1349	Z24387	D17S1854	Z53779	D22S284	Z16533
D11S1350	Z24391	D17S1856	Z53861	D22S315	Z17251
D11S1351	Z24403	D17S1857	Z53870	D22S419	Z23611

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D11S1352	Z24415	D17S1860	Z53919	D22S424	Z23366
D11S1353	Z24430	D17S1861	Z53921	D22S427	Z24068
D11S1354	Z24552	D17S1862	Z53924	D22S428	Z24377
D11S1355	Z24567	D17S1863	Z53933	D22S429	Z24564
D11S1356	Z24569	D17S1865	Z54038	D22S446	Z27068
D11S1357	Z24571	D17S1866	Z54044	D22S683	G08086
D11S1359	Z24579	D17S1868	Z51309	D22S687	G09462
D11S1362	Z24646	D17S1871	Z51496	D22S693	G08095
D11S1363	Z24657	D17S1874	Z51657	D22S922	Z50896
D11S1365	Z24665	D17S1875	Z51714	D22S925	Z52230
D11S1368	G08892	D17S1876	Z51792	D22S926	Z51282
D11S1391	G08875	D17S1877	Z50886	D2S0001i	AB130049.1



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D11S1395	G08886	D17S1879	Z51848	D2S0002i	AB130050.1
D11S1397	G08899	D17S1880	Z51878	D2S0003i	AB130052.1
D11S1750	Z50950	D17S1881	Z51983	D2S0004i	AB130056.1
D11S1752	Z51131	D17S1882	Z52019	D2S0005i	AB130058.1
D11S1755	Z51167	D17S783	Z16445	D2S0006i	AB130030.1
D11S1757	Z51183	D17S785	Z16476	D2S0007i	AB130059.1
D11S1758	Z50963	D17S786	Z16479	D2S0008i	AB130060.1
D11S1759	Z50968	D17S788	Z16564	D2S0009i	AB130062.1
D11S1760	Z50981	D17S789	Z16583	D2S0010i	AB130063.1
D11S1761	Z51039	D17S790	Z16676	D2S0011i	AB130064.1
D11S1763	Z51050	D17S791	Z16689	D2S0012i	AB130065.1
D11S1765	Z51076	D17S794	Z16761	D2S0013i	AB130066.1

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D11S1774	Z51214	D17S797	Z16783	D2S0014i	AB130067.1
D11S1776	Z51564	D17S798	Z16784	D2S0015i	AB130071.1
D11S1777	Z51595	D17S799	Z16830	D2S0016i	AB130078.1
D11S1778	Z51612	D17S800	Z16893	D2S0017i	AB131353.1
D11S1779	Z51844	D17S805	Z17037	D2S0019i	AB131374.1
D11S1780	Z51917	D17S806	Z17039	D2S0021i	AB131393.1
D11S1784	Z52254	D17S808	Z17075	D2S0022i	AB131394.1
D11S1785	Z51217	D17S809	Z17105	D2S0023i	AB131397.1
D11S1786	Z52261	D17S829	Z50889	D2S0024i	AB131398.1
D11S1791	Z51298	D17S831	Z50910	D2S0025i	AB131399.1
D11S1792	Z51321	D17S836	Z23412	D2S0026i	AB131401.1
D11S1793	Z51337	D17S840	Z23572	D2S0027i	AB131405.1

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D11S1885	Z51486	D17S841	Z23733	D2S0028i	AB131406.1
D11S1886	Z51493	D17S842	Z23770	D2S0029i	AB131407.1
D11S1887	Z51629	D17S849	Z17263	D2S0030i	AB131408.1
D11S1888	Z52228	D17S920	Z23450	D2S0031i	AB131409.1
D11S1889	Z51021	D17S922	Z23475	D2S0032i	AB131411.1
D11S1890	Z67770	D17S925	Z23567	D2S0033i	AB131414.1
D11S1891	Z51075	D17S926	Z23575	D2S0034i	AB131415.1
D11S1895	Z51371	D17S927	Z23601	D2S0035i	AB131416.1
D11S1965	Z67865	D17S928	Z23646	D2S0036i	AB131417.1
D11S1969	Z67798	D17S929	Z23330	D2S0037i	AB131418.1
D11S1975	G08849	D17S930	Z23777	D2S0038i	AB131419.1
D11S1979	G08867	D17S933	Z23822	D2S0039i	AB131420.1

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D11S1981	G08871	D17S936	Z23849	D2S0040i	AB131422.1
D11S1983	G08877	D17S938	Z23864	D2S0041i	AB131423.1
D11S1986	G08900	D17S939	Z23895	D2S0042i	AB131424.1
D11S1997	G09190	D17S940	Z23906	D2S0043i	AB131425.1
D11S1999	G08861	D17S941	Z23910	D2S0044i	AB131426.1
D11S2000	G08863	D17S942	Z23919	D2S0045i	AB131431.1
D11S2002	G09598	D17S944	Z23976	D2S0046i	AB131432.1
D11S2003	G09614	D17S945	Z24012	D2S0047i	AB131433.1
D11S2008	G08873	D17S948	Z24102	D2S0048i	AB131436.1
D11S2013	G08878	D17S950	Z24194	D2S0049i	AB131437.1
D11S2017	G08883	D17S951	Z24197	D2S0050i	AB131440.1
D11S3178	Z52196	D17S952	Z24224	D2S0051i	AB131441.1

D11S3179	Z53387	D17S954	Z24326	D2S0052i	AB131442.1
D11S4046	Z53199	D17S957	Z24385	D2S0053i	AB131443.1
D11S4075	Z52505	D17S958	Z24393	D2S0054i	AB131444.1
D11S4076	Z53015	D17S959	Z24598	D2S0055i	AB131445.1
D11S4078	Z52035	D18S0001i	AB129625.1	D2S0056i	AB131447.1
D11S4080	Z52066	D18S0002i	AB129632.1	D2S0057i	AB131448.1
D11S4082	Z51016	D18S0003i	AB129640.1	D2S0058i	AB131450.1
D11S4083	Z52164	D18S0004i	AB129646.1	D2S0059i	AB131451.1
D11S4084	Z52176	D18S0005i	AB129649.1	D2S0060i	AB131455.1
D11S4085	Z52177	D18S0006i	AB129650.1	D2S0061i	AB131456.1
D11S4086	Z52186	D18S0007i	AB129967.1	D2S0062i	AB131457.1
D11S4087	Z52297	D18S0008i	AB130832.1	D2S0063i	AB131458.1

D11S4089	Z52331	D18S0009i	AB130833.1	D2S0065i	AB131461.1
D11S4091	Z52340	D18S0010i	AB130844.1	D2S0066i	AB131462.1
D11S4092	Z52371	D18S0011i	AB130853.1	D2S0067i	AB131463.1
D11S4094	Z52401	D18S0012i	AB132613.1	D2S0068i	AB131464.1
D11S4095	Z52413	D18S0014i	AB134657.1	D2S0069i	AB131465.1
D11S4099	Z52477	D18S0015i	AB134658.1	D2S0070i	AB131466.1
D11S4100	Z52489	D18S0016i	AB134659.1	D2S0071i	AB131467.1
D11S4101	Z52541	D18S0018i	AB134663.1	D2S0072i	AB131468.1
D11S4102	Z52543	D18S0019i	AB134665.1	D2S0073i	AB131469.1
D11S4103	Z52554	D18S0020i	AB134666.1	D2S0074i	AB131471.1
D11S4104	Z52568	D18S0021i	AB134667.1	D2S0075i	AB131473.1
D11S4106	Z52574	D18S0022i	AB134678.1	D2S0076i	AB131474.1

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D11S4107	Z52605	D18S0023i	AB134681.1	D2S0078i	AB131476.1
D11S4108	Z52611	D18S0024i	AB134684.1	D2S0079i	AB131477.1
D11S4109	Z52649	D18S0025i	AB134689.1	D2S0080i	AB131478.1
D11S4110	Z50897	D18S0026i	AB134690.1	D2S0081i	AB131479.1
D11S4111	Z52667	D18S0027i	AB129488.1	D2S0082i	AB131480.1
D11S4113	Z52723	D18S0028i	AB134693.1	D2S0083i	AB131481.1
D11S4114	Z52728	D18S0029i	AB134694.1	D2S0084i	AB131484.1
D11S4115	Z52738	D18S0030i	AB134699.1	D2S0085i	AB131485.1
D11S4116	Z52745	D18S0031i	AB134700.1	D2S0086i	AB131487.1
D11S4117	Z52746	D18S0032i	AB134701.1	D2S0088i	AB131489.1
D11S4119	Z52816	D18S0033i	AB134704.1	D2S0089i	AB131492.1
D11S4120	Z51110	D18S0034i	AB134705.1	D2S0091i	AB131495.1

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D11S4121	Z52872	D18S0035i	AB134706.1	D2S0093i	AB131497.1
D11S4122	Z52888	D18S0036i	AB136814.1	D2S0094i	AB131499.1
D11S4125	Z52913	D18S0037i	AB136817.1	D2S0095i	AB131500.1
D11S4126	Z52955	D18S0038i	AB136820.1	D2S0096i	AB131501.1
D11S4127	Z52988	D18S0039i	AB136826.1	D2S0097i	AB131502.1
D11S4130	Z53024	D18S0040i	AB140478.1	D2S0098i	AB131503.1
D11S4132	Z53045	D18S0041i	AB140496.1	D2S0099i	AB131504.1
D11S4133	Z53109	D18S0042i	AB129235.1	D2S0100i	AB131505.1
D11S4134	Z53122	D18S0043i	AB140512.1	D2S0101i	AB131506.1
D11S4135	Z53155	D18S0045i	AB140519.1	D2S0102i	AB131507.1
D11S4136	Z53163	D18S0046i	AB140521.1	D2S0103i	AB131508.1
D11S4138	Z53178	D18S0047i	AB140522.1	D2S0104i	AB131511.1



D11S4139	Z53184	D18S0048i	AB140523.1	D2S0105i	AB131513.1
D11S4143	Z53232	D18S0049i	AB140524.1	D2S0106i	AB131514.1
D11S4145	Z53251	D18S0050i	AB140525.1	D2S0107i	AB131515.1
D11S4146	Z53263	D18S0051i	AB140526.1	D2S0108i	AB131516.1
D11S4147	Z53269	D18S0052i	AB140527.1	D2S0109i	AB129069.1
D11S4148	Z53282	D18S0053i	AB140528.1	D2S0110i	AB131522.1
D11S4149	Z53329	D18S0054i	AB140529.1	D2S0111i	AB131523.1
D11S4150	Z53341	D18S0055i	AB140530.1	D2S0112i	AB131525.1
D11S4151	Z53352	D18S0056i	AB140531.1	D2S0113i	AB131526.1
D11S4152	Z53357	D18S0058i	AB140533.1	D2S0114i	AB131528.1
D11S4154	Z53400	D18S0059i	AB140534.1	D2S0115i	AB131529.1
D11S4155	Z53457	D18S0060i	AB140537.1	D2S0116i	AB131530.1

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D11S4157	Z53552	D18S0061i	AB140538.1	D2S0117i	AB131531.1
D11S4158	Z53576	D18S0063i	AB140540.1	D2S0118i	AB131534.1
D11S4160	Z53621	D18S0064i	AB140541.1	D2S0119i	AB131535.1
D11S4161	Z53638	D18S0065i	AB140542.1	D2S0120i	AB131536.1
D11S4162	Z53670	D18S0066i	AB140543.1	D2S0121i	AB131539.1
D11S4163	Z53673	D18S0067i	AB140546.1	D2S0122i	AB131540.1
D11S4166	Z53689	D18S0068i	AB140547.1	D2S0123i	AB131548.1
D11S4170	Z53745	D18S0069i	AB140548.1	D2S0124i	AB131549.1
D11S4171	Z53754	D18S0070i	AB140549.1	D2S0125i	AB131550.1
D11S4172	Z53759	D18S0071i	AB140550.1	D2S0126i	AB131551.1
D11S4173	Z53774	D18S0072i	AB140553.1	D2S0127i	AB133399.1
D11S4174	Z53793	D18S0073i	AB140554.1	D2S0128i	AB134435.1

D11S4177	Z53859	D18S0074i	AB140556.1	D2S0129i	AB134524.1
D11S4178	Z53874	D18S0075i	AB140559.1	D2S0130i	AB134581.1
D11S4179	Z53879	D18S0076i	AB140560.1	D2S0131i	AB136126.1
D11S4181	Z53945	D18S0077i	AB140561.1	D2S0132i	AB136127.1
D11S4183	Z53978	D18S0078i	AB140563.1	D2S0133i	AB136131.1
D11S4184	Z54028	D18S0079i	AB140565.1	D2S0134i	AB136132.1
D11S4185	Z54049	D18S0080i	AB140566.1	D2S0135i	AB136140.1
D11S4186	Z51297	D18S0081i	AB140567.1	D2S0136i	AB136148.1
D11S4187	Z51335	D18S0082i	AB140568.1	D2S0137i	AB136149.1
D11S4190	Z51438	D18S0083i	AB140570.1	D2S0138i	AB136151.1
D11S4191	Z51451	D18S0084i	AB140571.1	D2S0139i	AB136157.1
D11S4192	Z51473	D18S0085i	AB140572.1	D2S0140i	AB136158.1

D11S4194	Z51616	D18S0086i	AB140573.1	D2S0141i	AB136160.1
D11S4195	Z51710	D18S0087i	AB140574.1	D2S0142i	AB136161.1
D11S4196	Z51760	D18S0088i	AB140575.1	D2S0143i	AB136162.1
D11S4197	Z51776	D18S0089i	AB140577.1	D2S0144i	AB136164.1
D11S4198	Z51798	D18S0090i	AB140578.1	D2S0146i	AB136167.1
D11S4201	Z50987	D18S0091i	AB140579.1	D2S0147i	AB136168.1
D11S4203	Z51956	D18S0092i	AB140581.1	D2S0148i	AB136169.1
D11S4204	Z51957	D18S0093i	AB140582.1	D2S0149i	AB136170.1
D11S4205	Z51967	D18S0094i	AB140583.1	D2S0150i	AB136171.1
D11S4206	Z52015	D18S0095i	AB140586.1	D2S0151i	AB136172.1
D11S899	Z16432	D18S0096i	AB140587.1	D2S0152i	AB136174.1
D11S900	Z16499	D18S0097i	AB140589.1	D2S0153i	AB136176.1

D11S901	Z16505	D18S0098i	AB140590.1	D2S0154i	AB136177.1
D11S902	Z16521	D18S0099i	AB140591.1	D2S0155i	AB136178.1
D11S903	Z16529	D18S0100i	AB140592.1	D2S0156i	AB136180.1
D11S905	Z16575	D18S0101i	AB140593.1	D2S0157i	AB136181.1
D11S909	Z16685	D18S0102i	AB129236.1	D2S0158i	AB136182.1
D11S910	Z16688	D18S0103i	AB140594.1	D2S0159i	AB136183.1
D11S911	Z16690	D18S0104i	AB140596.1	D2S0160i	AB136184.1
D11S912	Z16703	D18S0105i	AB140597.1	D2S0161i	AB136185.1
D11S913	Z16746	D18S0106i	AB140598.1	D2S0162i	AB136186.1
D11S914	Z16753	D18S0107i	AB129237.1	D2S0163i	AB136187.1
D11S915	Z16782	D18S0108i	AB140599.1	D2S0164i	AB136189.1
D11S916	Z16809	D18S0109i	AB140600.1	D2S0165i	AB136190.1

D11S917	Z16856	D18S0110i	AB140601.1	D2S0166i	AB136191.1
D11S918	Z16895	D18S0111i	AB140602.1	D2S0167i	AB136192.1
D11S920	Z16948	D18S0112i	AB140603.1	D2S0168i	AB136193.1
D11S923	Z16993	D18S0113i	AB140605.1	D2S0169i	AB136194.1
D11S924	Z17001	D18S0114i	AB140606.1	D2S0170i	AB136195.1
D11S925	Z17002	D18S0115i	AB140607.1	D2S0171i	AB136196.1
D11S926	Z17018	D18S0116i	AB140608.1	D2S0172i	AB136197.1
D11S927	Z17031	D18S0117i	AB140610.1	D2S0173i	AB136198.1
D11S928	Z17052	D18S0118i	AB140612.1	D2S0174i	AB129166.1
D11S929	Z17054	D18S0119i	AB140613.1	D2S0175i	AB136199.1
D11S930	Z17071	D18S0120i	AB140614.1	D2S0176i	AB136200.1
D11S931	Z17073	D18S0121i	AB140615.1	D2S0177i	AB136201.1

D11S932	Z17083	D18S0122i	AB140616.1	D2S0178i	AB136202.1
D11S933	Z17090	D18S0123i	AB140617.1	D2S0179i	AB136203.1
D11S934	Z17119	D18S0124i	AB140619.1	D2S0180i	AB136204.1
D11S937	Z17159	D18S0125i	AB140620.1	D2S0181i	AB136205.1
D11S938	Z17160	D18S0126i	AB140621.1	D2S0182i	AB136206.1
D11S940	Z17194	D18S0127i	AB140623.1	D2S0183i	AB136207.1
D11S968	Z17248	D18S0128i	AB140625.1	D2S0184i	AB136208.1
D11S969	Z17333	D18S0129i	AB140626.1	D2S0185i	AB136210.1
D12S0001i	AB129929.1	D18S0130i	AB140627.1	D2S0186i	AB136211.1
D12S0002i	AB129935.1	D18S0131i	AB140628.1	D2S0187i	AB136212.1
D12S0003i	AB129936.1	D18S0132i	AB140629.1	D2S0188i	AB136214.1
D12S0004i	AB129937.1	D18S0134i	AB140631.1	D2S0189i	AB136215.1

D12S0005i	AB129942.1	D18S0135i	AB140632.1	D2S0190i	AB136216.1
D12S0006i	AB129943.1	D18S0136i	AB140633.1	D2S0191i	AB136217.1
D12S0007i	AB133552.1	D18S0137i	AB140634.1	D2S0192i	AB136218.1
D12S0008i	AB133644.1	D18S0138i	AB140635.1	D2S0193i	AB129167.1
D12S0009i	AB133778.1	D18S0140i	AB140638.1	D2S0194i	AB136219.1
D12S0010i	AB133779.1	D18S0141i	AB140639.1	D2S0195i	AB136220.1
D12S0011i	AB133780.1	D18S0142i	AB140640.1	D2S0196i	AB136221.1
D12S0012i	AB133784.1	D18S0143i	AB140641.1	D2S0197i	AB136223.1
D12S0013i	AB133785.1	D18S0144i	AB140643.1	D2S0198i	AB136224.1
D12S0014i	AB133786.1	D18S0145i	AB140644.1	D2S0199i	AB136225.1
D12S0015i	AB133788.1	D18S0147i	AB140646.1	D2S0200i	AB136227.1
D12S0016i	AB133791.1	D18S0148i	AB140647.1	D2S0201i	AB136228.1



D12S0017i	AB133794.1	D18S0149i	AB140648.1	D2S0202i	AB136230.1
D12S0018i	AB133795.1	D18S0150i	AB140650.1	D2S0203i	AB136231.1
D12S0019i	AB133796.1	D18S0151i	AB140651.1	D2S0204i	AB136232.1
D12S0020i	AB133798.1	D18S0152i	AB140654.1	D2S0205i	AB136233.1
D12S0021i	AB133799.1	D18S0153i	AB140655.1	D2S0207i	AB136235.1
D12S0022i	AB133800.1	D18S0154i	AB140656.1	D2S0208i	AB136236.1
D12S0023i	AB133801.1	D18S0155i	AB140657.1	D2S0209i	AB136237.1
D12S0024i	AB133802.1	D18S0156i	AB140658.1	D2S0210i	AB136238.1
D12S0025i	AB133803.1	D18S0157i	AB140660.1	D2S0211i	AB136240.1
D12S0026i	AB133805.1	D18S0158i	AB140661.1	D2S0213i	AB136242.1
D12S0027i	AB133807.1	D18S0159i	AB140664.1	D2S0214i	AB136244.1
D12S0028i	AB133810.1	D18S0161i	AB140667.1	D2S0215i	AB136245.1

D12S0029i	AB133813.1	D18S0162i	AB140668.1	D2S0216i	AB136247.1
D12S0030i	AB133815.1	D18S0163i	AB140669.1	D2S0217i	AB136248.1
D12S0031i	AB133817.1	D18S0164i	AB140672.1	D2S0218i	AB136249.1
D12S0032i	AB133822.1	D18S0165i	AB140673.1	D2S0219i	AB136250.1
D12S0033i	AB133823.1	D18S0166i	AB140674.1	D2S0220i	AB129168.1
D12S0034i	AB133824.1	D18S0167i	AB140675.1	D2S0221i	AB136252.1
D12S0035i	AB133827.1	D18S0168i	AB140676.1	D2S0222i	AB136253.1
D12S0036i	AB133828.1	D18S0170i	AB140678.1	D2S0223i	AB136254.1
D12S0037i	AB133833.1	D18S0171i	AB140679.1	D2S0224i	AB136257.1
D12S0038i	AB133834.1	D18S0172i	AB140680.1	D2S0225i	AB136259.1
D12S0039i	AB133835.1	D18S0173i	AB140681.1	D2S0226i	AB136260.1
D12S0040i	AB133836.1	D18S0174i	AB140682.1	D2S0227i	AB136261.1

D12S0041i	AB133837.1	D18S0175i	AB140683.1	D2S0228i	AB136262.1
D12S0042i	AB133838.1	D18S0176i	AB129238.1	D2S0229i	AB136263.1
D12S0043i	AB133839.1	D18S0177i	AB140684.1	D2S0230i	AB136265.1
D12S0044i	AB133840.1	D18S0178i	AB140685.1	D2S0231i	AB136266.1
D12S0045i	AB133841.1	D18S0179i	AB140686.1	D2S0232i	AB136267.1
D12S0046i	AB133843.1	D18S0180i	AB140687.1	D2S0233i	AB136268.1
D12S0047i	AB133845.1	D18S0181i	AB140688.1	D2S0234i	AB136270.1
D12S0048i	AB133846.1	D18S0182i	AB140689.1	D2S0236i	AB129169.1
D12S0049i	AB133847.1	D18S0184i	AB140692.1	D2S0238i	AB136274.1
D12S0050i	AB133848.1	D18S0185i	AB140693.1	D2S0239i	AB136275.1
D12S0051i	AB133849.1	D18S0186i	AB140694.1	D2S0240i	AB136276.1
D12S0052i	AB133850.1	D18S0187i	AB140695.1	D2S0241i	AB136277.1

D12S0053i	AB133852.1	D18S0190i	AB140697.1	D2S0242i	AB136280.1
D12S0054i	AB133853.1	D18S0191i	AB140699.1	D2S0243i	AB136282.1
D12S0055i	AB133854.1	D18S0192i	AB140807.1	D2S0244i	AB136283.1
D12S0056i	AB133855.1	D18S0193i	AB140808.1	D2S0245i	AB136284.1
D12S0057i	AB133856.1	D18S0194i	AB140813.1	D2S0246i	AB136285.1
D12S0058i	AB133858.1	D18S0195i	AB140818.1	D2S0247i	AB136286.1
D12S0059i	AB133859.1	D18S0196i	AB140820.1	D2S0248i	AB136287.1
D12S0060i	AB133860.1	D18S0197i	AB140824.1	D2S0249i	AB136288.1
D12S0062i	AB133863.1	D18S0198i	AB140829.1	D2S0250i	AB136289.1
D12S0063i	AB133866.1	D18S0199i	AB140830.1	D2S0252i	AB136291.1
D12S0064i	AB133867.1	D18S0200i	AB140834.1	D2S0253i	AB136292.1
D12S0065i	AB133868.1	D18S0201i	AB140839.1	D2S0254i	AB136293.1

D12S0066i	AB133869.1	D18S0202i	AB140840.1	D2S0255i	AB136294.1
D12S0067i	AB133870.1	D18S0203i	AB140841.1	D2S0256i	AB136295.1
D12S0068i	AB133871.1	D18S0204i	AB140842.1	D2S0257i	AB136296.1
D12S0069i	AB133872.1	D18S0205i	AB140843.1	D2S0258i	AB136298.1
D12S0070i	AB133857.1	D18S0206i	AB140844.1	D2S0259i	AB136299.1
D12S0071i	AB133876.1	D18S0208i	AB140846.1	D2S0260i	AB136300.1
D12S0072i	AB129123.1	D18S0209i	AB140848.1	D2S0261i	AB136301.1
D12S0073i	AB133880.1	D18S0210i	AB140849.1	D2S0262i	AB136302.1
D12S0075i	AB133884.1	D18S0211i	AB140850.1	D2S0263i	AB136304.1
D12S0076i	AB133886.1	D18S0212i	AB140851.1	D2S0264i	AB136305.1
D12S0077i	AB133887.1	D18S0213i	AB140852.1	D2S0265i	AB136307.1
D12S0079i	AB133889.1	D18S0214i	AB140853.1	D2S0267i	AB136309.1

D12S0080i	AB133890.1	D18S0215i	AB140854.1	D2S0268i	AB136310.1
D12S0081i	AB133891.1	D18S0216i	AB140855.1	D2S0269i	AB136311.1
D12S0082i	AB133892.1	D18S0217i	AB140856.1	D2S0270i	AB136312.1
D12S0083i	AB133894.1	D18S0218i	AB140857.1	D2S0271i	AB136313.1
D12S0084i	AB133895.1	D18S0219i	AB140858.1	D2S0272i	AB136314.1
D12S0085i	AB133897.1	D18S0220i	AB140859.1	D2S0274i	AB136316.1
D12S0086i	AB133898.1	D18S0221i	AB140861.1	D2S0275i	AB136317.1
D12S0087i	AB133900.1	D18S0222i	AB140862.1	D2S0276i	AB136318.1
D12S0088i	AB133901.1	D18S0223i	AB140864.1	D2S0278i	AB136321.1
D12S0089i	AB133902.1	D18S0224i	AB140866.1	D2S0279i	AB136322.1
D12S0090i	AB133903.1	D18S0225i	AB140867.1	D2S0280i	AB136323.1
D12S0091i	AB133904.1	D18S0226i	AB140868.1	D2S0281i	AB136326.1

D12S0092i	AB133905.1	D18S0227i	AB140869.1	D2S0282i	AB136327.1
D12S0093i	AB133907.1	D18S0228i	AB140871.1	D2S0283i	AB136329.1
D12S0094i	AB133908.1	D18S0229i	AB140872.1	D2S0284i	AB136330.1
D12S0095i	AB133910.1	D18S0230i	AB140873.1	D2S0285i	AB136331.1
D12S0096i	AB133911.1	D18S0231i	AB140874.1	D2S0286i	AB136332.1
D12S0097i	AB133913.1	D18S0232i	AB140875.1	D2S0287i	AB136333.1
D12S0098i	AB133916.1	D18S0233i	AB140876.1	D2S0288i	AB136334.1
D12S0099i	AB133918.1	D18S0234i	AB140877.1	D2S0289i	AB136335.1
D12S0100i	AB133919.1	D18S0236i	AB140880.1	D2S0290i	AB136336.1
D12S0101i	AB133920.1	D18S0237i	AB140881.1	D2S0291i	AB136337.1
D12S0102i	AB133923.1	D18S0238i	AB140885.1	D2S0292i	AB136338.1
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D12S0318i	AB139427.1	D18S1131	Z53623	D2S0507i	AB138625.1
D12S0319i	AB139428.1	D18S1132	Z53640	D2S0508i	AB138626.1
D12S0320i	AB139431.1	D18S1134	Z53656	D2S0509i	AB138627.1
D12S0321i	AB139432.1	D18S1141	Z51308	D2S0510i	AB138629.1
D12S0322i	AB139434.1	D18S1143	Z51530	D2S0511i	AB138630.1
D12S0323i	AB139437.1	D18S1148	Z51669	D2S0513i	AB138632.1
D12S0324i	AB139440.1	D18S1150	Z51689	D2S0514i	AB129204.1
D12S0325i	AB141167.1	D18S1155	Z51826	D2S0515i	AB138633.1
D12S0326i	AB141168.1	D18S1157	Z51891	D2S0516i	AB138634.1



D12S0328i	AB141170.1	D18S1158	Z50888	D2S0517i	AB138636.1
D12S0329i	AB141171.1	D18S1159	Z50989	D2S0518i	AB138637.1
D12S0330i	AB141172.1	D18S1161	Z51969	D2S0519i	AB138638.1
D12S0331i	AB141173.1	D18S1162	Z51998	D2S0520i	AB138640.1
D12S0333i	AB141175.1	D18S1163	Z52006	D2S0521i	AB138641.1
D12S0334i	AB141176.1	D18S450	Z23460	D2S0522i	AB138642.1
D12S0335i	AB141177.1	D18S458	Z23742	D2S0523i	AB138643.1
D12S0336i	AB141178.1	D18S460	Z23767	D2S0524i	AB138644.1
D12S0337i	AB141179.1	D18S462	Z23336	D2S0525i	AB138647.1
D12S0338i	AB141180.1	D18S463	Z23795	D2S0526i	AB138648.1
D12S0339i	AB141181.1	D18S464	Z23838	D2S0527i	AB138649.1
D12S0340i	AB141182.1	D18S465	Z23850	D2S0528i	AB138650.1

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D12S0341i	AB141183.1	D18S468	Z23370	D2S0530i	AB138653.1
D12S0342i	AB141184.1	D18S469	Z23371	D2S0531i	AB138654.1
D12S0343i	AB141185.1	D18S471	Z24025	D2S0532i	AB138655.1
D12S0344i	AB141186.1	D18S472	Z24034	D2S0533i	AB138658.1
D12S0345i	AB141187.1	D18S473	Z24116	D2S0534i	AB138645.1
D12S0346i	AB141188.1	D18S474	Z24152	D2S0535i	AB138659.1
D12S0347i	AB141189.1	D18S477	Z24212	D2S0536i	AB138661.1
D12S0348i	AB141190.1	D18S478	Z24307	D2S0537i	AB138662.1
D12S0349i	AB141191.1	D18S479	Z24313	D2S0538i	AB138663.1
D12S0351i	AB141193.1	D18S483	Z24399	D2S0539i	AB138664.1
D12S0352i	AB141194.1	D18S484	Z24404	D2S0540i	AB138665.1
D12S0353i	AB141195.1	D18S485	Z24422	D2S0541i	AB138666.1

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D12S0354i	AB141196.1	D18S486	Z24436	D2S0542i	AB138667.1
D12S0355i	AB141197.1	D18S488	Z24570	D2S0543i	AB138669.1
D12S0356i	AB141198.1	D18S536	G08011	D2S0544i	AB138671.1
D12S0357i	AB141199.1	D18S54	Z16541	D2S0545i	AB138672.1
D12S0358i	AB141200.1	D18S541	G07983	D2S0547i	AB138674.1
D12S0359i	AB141201.1	D18S545	G09203	D2S0548i	AB129205.1
D12S0360i	AB141202.1	D18S55	Z16621	D2S0549i	AB138675.1
D12S0361i	AB141203.1	D18S554	Z24170	D2S0550i	AB138676.1
D12S0362i	AB141204.1	D18S56	Z16631	D2S0551i	AB138677.1
D12S0363i	AB141205.1	D18S58	Z16735	D2S0552i	AB138678.1
D12S0364i	AB141206.1	D18S60	Z16781	D2S0553i	AB138679.1
D12S0365i	AB141207.1	D18S61	Z16834	D2S0554i	AB138680.1

D12S0366i	AB129252.1	D18S64	Z16972	D2S0555i	AB138681.1
D12S0367i	AB141209.1	D18S66	Z17088	D2S0556i	AB138682.1
D12S0368i	AB141210.1	D18S67	Z17109	D2S0558i	AB138687.1
D12S0369i	AB141211.1	D18S68	Z17122	D2S0559i	AB138688.1
D12S0370i	AB141212.1	D18S826	Z67866	D2S0560i	AB138690.1
D12S0371i	AB141213.1	D18S838	Z67836	D2S0561i	AB138691.1
D12S0372i	AB141214.1	D18S843	G07970	D2S0562i	AB138692.1
D12S0374i	AB141220.1	D18S846	G07982	D2S0563i	AB138694.1
D12S0375i	AB141224.1	D18S850	G08000	D2S0564i	AB138695.1
D12S0376i	AB141229.1	D18S852	G08013	D2S0565i	AB138696.1
D12S0377i	AB141230.1	D18S854	G09766	D2S0566i	AB138698.1
D12S0378i	AB129253.1	D18S860	G07978	D2S0567i	AB138699.1

D12S0379i	AB141235.1	D18S861	G07976	D2S0568i	AB138700.1
D12S0380i	AB141236.1	D18S862	G09351	D2S0569i	AB138703.1
D12S0381i	AB141240.1	D18S865	G07991	D2S0570i	AB138704.1
D12S0382i	AB141246.1	D18S869	G09618	D2S0571i	AB138705.1
D12S0383i	AB141250.1	D18S873	G09752	D2S0572i	AB138706.1
D12S0460i	AB141933.1	D18S874	G07999	D2S0573i	AB138707.1
D12S0461i	AB141934.1	D18S878	G09128	D2S0574i	AB138708.1
D12S0462i	AB141935.1	D18S879	G09142	D2S0575i	AB138709.1
D12S0463i	AB141936.1	D19S0001i	AB129634.1	D2S0576i	AB138710.1
D12S0464i	AB141937.1	D19S0002i	AB129641.1	D2S0577i	AB138712.1
D12S0465i	AB141938.1	D19S0003i	AB129642.1	D2S0578i	AB138714.1
D12S0466i	AB141939.1	D19S0004i	AB129651.1	D2S0579i	AB138715.1

D12S0467i	AB141940.1	D19S0005i	AB129659.1	D2S0580i	AB138716.1
D12S0468i	AB141941.1	D19S0006i	AB129662.1	D2S0581i	AB129206.1
D12S0469i	AB141942.1	D19S0007i	AB129668.1	D2S0582i	AB138717.1
D12S0470i	AB141943.1	D19S0008i	AB129682.1	D2S0583i	AB138719.1
D12S0471i	AB141944.1	D19S0009i	AB129689.1	D2S0584i	AB138720.1
D12S0472i	AB141945.1	D19S0010i	AB129964.1	D2S0586i	AB138722.1
D12S0473i	AB141946.1	D19S0011i	AB129968.1	D2S0587i	AB138723.1
D12S0474i	AB141947.1	D19S0013i	AB130836.1	D2S0588i	AB138724.1
D12S0475i	AB141948.1	D19S0014i	AB130837.1	D2S0589i	AB138711.1
D12S0476i	AB141949.1	D19S0015i	AB130841.1	D2S0590i	AB138725.1
D12S0477i	AB141950.1	D19S0016i	AB130828.1	D2S0591i	AB138726.1
D12S0478i	AB141951.1	D19S0017i	AB130843.1	D2S0592i	AB138729.1

D12S0479i	AB141952.1	D19S0018i	AB130845.1	D2S0593i	AB138731.1
D12S0480i	AB141953.1	D19S0019i	AB130848.1	D2S0594i	AB138732.1
D12S0481i	AB141954.1	D19S0020i	AB130849.1	D2S0595i	AB138733.1
D12S0482i	AB141955.1	D19S0021i	AB130850.1	D2S0596i	AB138734.1
D12S0483i	AB141956.1	D19S0022i	AB129059.1	D2S0597i	AB138735.1
D12S0484i	AB141957.1	D19S0023i	AB130851.1	D2S0598i	AB138736.1
D12S0485i	AB141958.1	D19S0024i	AB130852.1	D2S0599i	AB138740.1
D12S0487i	AB141960.1	D19S0025i	AB130854.1	D2S0600i	AB138742.1
D12S0488i	AB141961.1	D19S0026i	AB130855.1	D2S0601i	AB138743.1
D12S0489i	AB141962.1	D19S0027i	AB130857.1	D2S0603i	AB138748.1
D12S0490i	AB141963.1	D19S0029i	AB130861.1	D2S0604i	AB138750.1
D12S0491i	AB141964.1	D19S0030i	AB130862.1	D2S0605i	AB138751.1

D12S0492i	AB141965.1	D19S0031i	AB130864.1	D2S0606i	AB138752.1
D12S0493i	AB141966.1	D19S0032i	AB130867.1	D2S0607i	AB138753.1
D12S0494i	AB141967.1	D19S0034i	AB130875.1	D2S0608i	AB138755.1
D12S0495i	AB141968.1	D19S0035i	AB130876.1	D2S0609i	AB138756.1
D12S0513i	AB145655.1	D19S0036i	AB130878.1	D2S0610i	AB138757.1
D12S0514i	AB129367.1	D19S0037i	AB130879.1	D2S0612i	AB138759.1
D12S0515i	AB145656.1	D19S0039i	AB130884.1	D2S0613i	AB138760.1
D12S0516i	AB145657.1	D19S0040i	AB130887.1	D2S0614i	AB138761.1
D12S0517i	AB145658.1	D19S0041i	AB130888.1	D2S0615i	AB138763.1
D12S0518i	AB145659.1	D19S0042i	AB130891.1	D2S0616i	AB129207.1
D12S0519i	AB145661.1	D19S0043i	AB130892.1	D2S0617i	AB138765.1
D12S0520i	AB145662.1	D19S0044i	AB130895.1	D2S0618i	AB138766.1



D12S0521i	AB145663.1	D19S0045i	AB130896.1	D2S0619i	AB138769.1
D12S0522i	AB145667.1	D19S0046i	AB130898.1	D2S0620i	AB138770.1
D12S0523i	AB145673.1	D19S0047i	AB130900.1	D2S0621i	AB138771.1
D12S0524i	AB145674.1	D19S0048i	AB130902.1	D2S0622i	AB138772.1
D12S0525i	AB145675.1	D19S0050i	AB130906.1	D2S0623i	AB138773.1
D12S0526i	AB145676.1	D19S0051i	AB130908.1	D2S0624i	AB138774.1
D12S0528i	AB145679.1	D19S0052i	AB130909.1	D2S0625i	AB138775.1
D12S0529i	AB145680.1	D19S0053i	AB134660.1	D2S0627i	AB138777.1
D12S0530i	AB145684.1	D19S0054i	AB134668.1	D2S0628i	AB138778.1
D12S0531i	AB145690.1	D19S0055i	AB134669.1	D2S0629i	AB138779.1
D12S0532i	AB145694.1	D19S0056i	AB134670.1	D2S0630i	AB138780.1
D12S0533i	AB145695.1	D19S0057i	AB134675.1	D2S0631i	AB138781.1

D12S0534i	AB145696.1	D19S0058i	AB134677.1	D2S0632i	AB138782.1
D12S0535i	AB145703.1	D19S0059i	AB134685.1	D2S0633i	AB138783.1
D12S0536i	AB145704.1	D19S0060i	AB134686.1	D2S0634i	AB138784.1
D12S0537i	AB145714.1	D19S0061i	AB134687.1	D2S0635i	AB138785.1
D12S0538i	AB146166.1	D19S0062i	AB134691.1	D2S0637i	AB138788.1
D12S0539i	AB146179.1	D19S0063i	AB134695.1	D2S0638i	AB138789.1
D12S0540i	AB146185.1	D19S0064i	AB134696.1	D2S0639i	AB138790.1
D12S0541i	AB146200.1	D19S0065i	AB134702.1	D2S0640i	AB138791.1
D12S0542i	AB146208.1	D19S0066i	AB134703.1	D2S0641i	AB138792.1
D12S0543i	AB146876.1	D19S0067i	AB134707.1	D2S0642i	AB138793.1
D12S0544i	AB146877.1	D19S0068i	AB134708.1	D2S0643i	AB138794.1
D12S0545i	AB146885.1	D19S0069i	AB134709.1	D2S0644i	AB138795.1

D12S0546i	AB146886.1	D19S0070i	AB134710.1	D2S0646i	AB138798.1
D12S0547i	AB146895.1	D19S0071i	AB134711.1	D2S0647i	AB138799.1
D12S0548i	AB146896.1	D19S0072i	AB134712.1	D2S0648i	AB138800.1
D12S0549i	AB146900.1	D19S0073i	AB134713.1	D2S0649i	AB138801.1
D12S0550i	AB146903.1	D19S0074i	AB134714.1	D2S0650i	AB138802.1
D12S0551i	AB146908.1	D19S0075i	AB134715.1	D2S0651i	AB138804.1
D12S0552i	AB146909.1	D19S0076i	AB134716.1	D2S0652i	AB138805.1
D12S0553i	AB146913.1	D19S0077i	AB134717.1	D2S0653i	AB138806.1
D12S101	Z17041	D19S0078i	AB134718.1	D2S0654i	AB138808.1
D12S102	Z17074	D19S0080i	AB134721.1	D2S0655i	AB138809.1
D12S1026	G08103	D19S0081i	AB134722.1	D2S0657i	AB138812.1
D12S1034	G08904	D19S0083i	AB134724.1	D2S0658i	AB138815.1

D12S1041	G08910	D19S0084i	AB134725.1	D2S0659i	AB138816.1
D12S1042	G08912	D19S0085i	AB134727.1	D2S0660i	AB138817.1
D12S1043	G08915	D19S0086i	AB134729.1	D2S0661i	AB138820.1
D12S1046	G09904	D19S0087i	AB134732.1	D2S0662i	AB138821.1
D12S1048	G08917	D19S0088i	AB134733.1	D2S0663i	AB138822.1
D12S105	Z17179	D19S0091i	AB134737.1	D2S0664i	AB138823.1
D12S1050	G08926	D19S0092i	AB134738.1	D2S0665i	AB138825.1
D12S1051	G08927	D19S0093i	AB134739.1	D2S0666i	AB138826.1
D12S1052	G08928	D19S0094i	AB134740.1	D2S0667i	AB138827.1
D12S1054	G09114	D19S0095i	AB134743.1	D2S0668i	AB138828.1
D12S1056	G08939	D19S0096i	AB134744.1	D2S0669i	AB138830.1
D12S1057	G08940	D19S0097i	AB134745.1	D2S0670i	AB129208.1

D12S1062	G09152	D19S0098i	AB134746.1	D2S0671i	AB138832.1
D12S1070	G08955	D19S0099i	AB134747.1	D2S0672i	AB138836.1
D12S1071	G09129	D19S0100i	AB134748.1	D2S0673i	AB129209.1
D12S1072	G08969	D19S0102i	AB134750.1	D2S0674i	AB138837.1
D12S1075	G08973	D19S0103i	AB134751.1	D2S0675i	AB138838.1
D12S1339	Z51199	D19S0104i	AB134752.1	D2S0676i	AB138839.1
D12S1340	Z51287	D19S0105i	AB134753.1	D2S0677i	AB138841.1
D12S1341	Z51340	D19S0106i	AB134755.1	D2S0678i	AB138843.1
D12S1343	Z52185	D19S0108i	AB134757.1	D2S0679i	AB138844.1
D12S1345	Z50928	D19S0109i	AB134758.1	D2S0680i	AB138845.1
D12S1346	Z51168	D19S0110i	AB134759.1	D2S0681i	AB138846.1
D12S1349	Z52094	D19S0111i	AB134760.1	D2S0682i	AB138847.1

D12S1580	Z53562	D19S0112i	AB134761.1	D2S0683i	AB138848.1
D12S1581	Z51023	D19S0113i	AB134762.1	D2S0684i	AB138850.1
D12S1583	Z52042	D19S0114i	AB134763.1	D2S0685i	AB138851.1
D12S1584	Z51004	D19S0115i	AB134767.1	D2S0686i	AB138852.1
D12S1586	Z52071	D19S0116i	AB134768.1	D2S0687i	AB138853.1
D12S1587	Z51010	D19S0118i	AB134771.1	D2S0688i	AB138854.1
D12S1589	Z52120	D19S0119i	AB134778.1	D2S0689i	AB138856.1
D12S1591	Z52128	D19S0120i	AB134779.1	D2S0690i	AB138857.1
D12S1592	Z52156	D19S0121i	AB134780.1	D2S0691i	AB138861.1
D12S1595	Z50892	D19S0122i	AB134784.1	D2S0692i	AB138862.1
D12S1596	Z51029	D19S0123i	AB134785.1	D2S0693i	AB138864.1
D12S1599	Z51036	D19S0124i	AB134786.1	D2S0694i	AB138865.1

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D12S1602	Z52322	D19S0125i	AB134790.1	D2S0695i	AB138867.1
D12S1603	Z52400	D19S0126i	AB134796.1	D2S0696i	AB138868.1
D12S1604	Z52404	D19S0127i	AB134797.1	D2S0697i	AB138870.1
D12S1605	Z52428	D19S0128i	AB134798.1	D2S0698i	AB138871.1
D12S1606	Z51052	D19S0129i	AB134804.1	D2S0699i	AB138872.1
D12S1608	Z52447	D19S0130i	AB135784.1	D2S0700i	AB138874.1
D12S1609	Z52454	D19S0131i	AB136840.1	D2S0701i	AB138875.1
D12S1611	Z52480	D19S0132i	AB136841.1	D2S0702i	AB138876.1
D12S1612	Z52488	D19S0133i	AB136842.1	D2S0703i	AB138877.1
D12S1615	Z52520	D19S0134i	AB136843.1	D2S0704i	AB138878.1
D12S1616	Z52560	D19S0135i	AB136845.1	D2S0705i	AB138879.1
D12S1617	Z52584	D19S0136i	AB136846.1	D2S0706i	AB138880.1

D12S1618	Z52600	D19S0137i	AB136847.1	D2S0707i	AB138881.1
D12S1620	Z51081	D19S0138i	AB136848.1	D2S0708i	AB138882.1
D12S1621	Z52656	D19S0139i	AB136851.1	D2S0709i	AB138883.1
D12S1626	Z52716	D19S0140i	AB136853.1	D2S0710i	AB138869.1
D12S1627	Z52736	D19S0141i	AB136854.1	D2S0711i	AB138885.1
D12S1628	Z52737	D19S0142i	AB136855.1	D2S0712i	AB138886.1
D12S1629	Z52766	D19S0143i	AB136856.1	D2S0713i	AB138888.1
D12S1631	Z52787	D19S0144i	AB136858.1	D2S0714i	AB138889.1
D12S1635	Z51111	D19S0145i	AB136860.1	D2S0716i	AB138891.1
D12S1638	Z53031	D19S0146i	AB136864.1	D2S0717i	AB138892.1
D12S1640	Z53035	D19S0147i	AB136865.1	D2S0718i	AB138895.1
D12S1642	Z53079	D19S0148i	AB136866.1	D2S0719i	AB138896.1



D12S1643	Z53082	D19S0149i	AB136868.1	D2S0720i	AB138897.1
D12S1646	Z53130	D19S0150i	AB136869.1	D2S0721i	AB138898.1
D12S1648	Z53196	D19S0151i	AB136870.1	D2S0722i	AB138899.1
D12S1650	Z53239	D19S0152i	AB136871.1	D2S0723i	AB138901.1
D12S1651	Z53257	D19S0153i	AB136872.1	D2S0724i	AB138902.1
D12S1652	Z53259	D19S0155i	AB136875.1	D2S0725i	AB138904.1
D12S1653	Z53321	D19S0157i	AB136878.1	D2S0726i	AB138905.1
D12S1654	Z53355	D19S0158i	AB136880.1	D2S0727i	AB138907.1
D12S1656	Z53369	D19S0159i	AB136882.1	D2S0728i	AB138908.1
D12S1657	Z53383	D19S0160i	AB136883.1	D2S0729i	AB138909.1
D12S1658	Z53389	D19S0161i	AB136884.1	D2S0730i	AB138910.1
D12S1659	Z53435	D19S0162i	AB136885.1	D2S0731i	AB138911.1

D12S1661	Z53514	D19S0163i	AB136886.1	D2S0732i	AB138912.1
D12S1663	Z53522	D19S0164i	AB136888.1	D2S0733i	AB138915.1
D12S1664	Z51191	D19S0165i	AB136889.1	D2S0734i	AB138916.1
D12S1666	Z53557	D19S0166i	AB136890.1	D2S0735i	AB138917.1
D12S1667	Z53566	D19S0167i	AB136891.1	D2S0736i	AB138918.1
D12S1671	Z53634	D19S0168i	AB136892.1	D2S0737i	AB138919.1
D12S1672	Z53639	D19S0169i	AB136893.1	D2S0738i	AB138920.1
D12S1674	Z53649	D19S0170i	AB136897.1	D2S0739i	AB138921.1
D12S1675	Z53716	D19S0171i	AB136898.1	D2S0740i	AB138922.1
D12S1676	Z53740	D19S0172i	AB136899.1	D2S0741i	AB138924.1
D12S1678	Z53787	D19S0173i	AB136902.1	D2S0742i	AB129210.1
D12S1679	Z53813	D19S0174i	AB136903.1	D2S0743i	AB138925.1

D12S1681	Z53887	D19S0175i	AB136904.1	D2S0744i	AB138926.1
D12S1682	Z53902	D19S0176i	AB136908.1	D2S0745i	AB138928.1
D12S1683	Z53906	D19S0177i	AB136909.1	D2S0746i	AB138929.1
D12S1685	Z53955	D19S0178i	AB136910.1	D2S0747i	AB129211.1
D12S1688	Z54059	D19S0179i	AB136911.1	D2S0748i	AB138930.1
D12S1689	Z51255	D19S0180i	AB136913.1	D2S0749i	AB138931.1
D12S1690	Z51333	D19S0181i	AB136914.1	D2S0750i	AB138933.1
D12S1691	Z51339	D19S0183i	AB136916.1	D2S0751i	AB138934.1
D12S1692	Z51356	D19S0184i	AB136917.1	D2S0752i	AB138936.1
D12S1694	Z51358	D19S0186i	AB136920.1	D2S0753i	AB138937.1
D12S1695	Z51369	D19S0187i	AB137512.1	D2S0754i	AB138938.1
D12S1696	Z51388	D19S0188i	AB137814.1	D2S0755i	AB138939.1

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D12S1698	Z51439	D19S0189i	AB138159.1	D2S0756i	AB138941.1
D12S1704	Z51611	D19S0190i	AB141009.1	D2S0757i	AB138943.1
D12S1705	Z51632	D19S0191i	AB141393.1	D2S0758i	AB138944.1
D12S1706	Z50957	D19S0192i	AB141398.1	D2S0759i	AB138945.1
D12S1708	Z51709	D19S0193i	AB141402.1	D2S0760i	AB138946.1
D12S1710	Z51761	D19S0194i	AB142454.1	D2S0761i	AB138947.1
D12S1711	Z51770	D19S0195i	AB142455.1	D2S0762i	AB138948.1
D12S1712	Z51773	D19S0196i	AB142456.1	D2S0763i	AB138949.1
D12S1713	Z50972	D19S0197i	AB142460.1	D2S0764i	AB138950.1
D12S1714	Z51814	D19S0199i	AB142463.1	D2S0765i	AB138951.1
D12S1715	Z51822	D19S0200i	AB142464.1	D2S0766i	AB138952.1
D12S1716	Z51825	D19S0201i	AB142465.1	D2S0767i	AB138953.1

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D12S1717	Z51836	D19S0202i	AB142467.1	D2S0768i	AB138954.1
D12S1718	Z51842	D19S0204i	AB142476.1	D2S0769i	AB138955.1
D12S1720	Z51904	D19S0205i	AB142477.1	D2S0770i	AB138957.1
D12S1721	Z51927	D19S0207i	AB142479.1	D2S0771i	AB138959.1
D12S1722	Z51928	D19S0208i	AB142480.1	D2S0772i	AB138960.1
D12S1723	Z51931	D19S0209i	AB129284.1	D2S0774i	AB138964.1
D12S1725	Z51951	D19S0210i	AB142481.1	D2S0775i	AB138965.1
D12S1728	Z51994	D19S0211i	AB142482.1	D2S0776i	AB129213.1
D12S304	Z23422	D19S0212i	AB142483.1	D2S0777i	AB138966.1
D12S306	Z23480	D19S0213i	AB142484.1	D2S0778i	AB138968.1
D12S307	Z23483	D19S0214i	AB142485.1	D2S0779i	AB138969.1
D12S309	Z23489	D19S0215i	AB142486.1	D2S0780i	AB138970.1

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D12S310	Z23551	D19S0216i	AB142487.1	D2S0781i	AB138971.1
D12S314	Z23580	D19S0217i	AB142488.1	D2S0782i	AB138972.1
D12S316	Z23598	D19S0218i	AB142489.1	D2S0783i	AB138973.1
D12S320	Z23326	D19S0219i	AB142490.1	D2S0784i	AB138974.1
D12S321	Z23677	D19S0220i	AB142491.1	D2S0785i	AB138975.1
D12S322	Z23682	D19S0221i	AB142492.1	D2S0786i	AB138977.1
D12S324	Z23700	D19S0222i	AB142493.1	D2S0787i	AB138978.1
D12S325	Z23703	D19S0223i	AB142494.1	D2S0788i	AB138979.1
D12S326	Z23739	D19S0224i	AB142495.1	D2S0789i	AB138980.1
D12S327	Z23800	D19S0225i	AB142496.1	D2S0790i	AB138981.1
D12S330	Z23349	D19S0226i	AB142497.1	D2S0791i	AB138982.1
D12S331	Z23351	D19S0227i	AB142498.1	D2S0793i	AB138984.1

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D12S332	Z23873	D19S0228i	AB142499.1	D2S0794i	AB138985.1
D12S333	Z23884	D19S0229i	AB142500.1	D2S0795i	AB138986.1
D12S335	Z23941	D19S0230i	AB142501.1	D2S0796i	AB138988.1
D12S338	Z24104	D19S0231i	AB142502.1	D2S0797i	AB138989.1
D12S340	Z24138	D19S0232i	AB142507.1	D2S0798i	AB138990.1
D12S341	Z24139	D19S0235i	AB142510.1	D2S0799i	AB138992.1
D12S343	Z24159	D19S0236i	AB142511.1	D2S0800i	AB138994.1
D12S346	Z24199	D19S0237i	AB142512.1	D2S0802i	AB138996.1
D12S347	Z24200	D19S0238i	AB142515.1	D2S0803i	AB138997.1
D12S348	Z24205	D19S0239i	AB142516.1	D2S0804i	AB138998.1
D12S349	Z24206	D19S0240i	AB142517.1	D2S0805i	AB138999.1
D12S351	Z24223	D19S0241i	AB142521.1	D2S0806i	AB139000.1

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D12S352	Z24233	D19S0242i	AB142529.1	D2S0808i	AB139002.1
D12S354	Z24250	D19S0243i	AB142530.1	D2S0809i	AB139003.1
D12S356	Z24287	D19S0244i	AB142531.1	D2S0810i	AB139004.1
D12S357	Z24289	D19S0245i	AB143041.1	D2S0811i	AB139005.1
D12S358	Z24363	D19S0246i	AB145154.1	D2S0812i	AB139006.1
D12S363	Z24548	D19S0247i	AB146021.1	D2S0813i	AB139007.1
D12S364	Z24574	D19S0248i	AB146026.1	D2S0814i	AB139008.1
D12S367	Z24618	D19S0249i	AB146031.1	D2S0815i	AB139009.1
D12S369	Z24668	D19S0250i	AB146040.1	D2S0818i	AB129214.1
D12S374	G08963	D19S0251i	AB146047.1	D2S0820i	AB139015.1
D12S375	G08936	D19S0252i	AB146052.1	D2S0821i	AB139016.1
D12S391	G08921	D19S0253i	AB146067.1	D2S0822i	AB139018.1



D12S396	G09121	D19S0254i	AB146068.1	D2S0823i	AB139019.1
D12S397	G08965	D19S0255i	AB146073.1	D2S0824i	AB139020.1
D12S76	Z16423	D19S0256i	AB146081.1	D2S0825i	AB139021.1
D12S77	Z16443	D19S0257i	AB146082.1	D2S0826i	AB139022.1
D12S79	Z16516	D19S0258i	AB146088.1	D2S0827i	AB139023.1
D12S80	Z16571	D19S0259i	AB146092.1	D2S0828i	AB139025.1
D12S84	Z16602	D19S0260i	AB146267.1	D2S0829i	AB139026.1
D12S85	Z16624	D19S0261i	AB146268.1	D2S0830i	AB139027.1
D12S86	Z16630	D19S0262i	AB146279.1	D2S0831i	AB139028.1
D12S865	Z67777	D19S0263i	AB146288.1	D2S0832i	AB139029.1
D12S866	Z67796	D19S0264i	AB146295.1	D2S0833i	AB139036.1
D12S868	Z67812	D19S0265i	AB146956.1	D2S0834i	AB139037.1

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D12S87	Z16641	D19S0266i	AB146974.1	D2S0835i	AB139038.1
D12S870	Z67764	D19S0267i	AB146981.1	D2S0836i	AB139045.1
D12S88	Z16709	D19S0268i	AB146988.1	D2S0837i	AB139051.1
D12S89	Z16726	D19S0269i	AB146989.1	D2S0838i	AB139052.1
D12S91	Z16790	D19S0270i	AB129391.1	D2S0839i	AB139053.1
D12S92	Z16894	D19S0271i	AB146996.1	D2S0840i	AB139060.1
D12S94	Z16931	D19S0272i	AB147006.1	D2S0841i	AB139061.1
D12S95	Z16932	D19S0273i	AB147021.1	D2S0842i	AB139069.1
D12S96	Z16947	D19S208	Z16603	D2S0843i	AB139070.1
D12S97	Z16960	D19S211	Z16634	D2S0844i	AB139079.1
D12S98	Z16962	D19S212	Z16661	D2S0845i	AB139083.1
D13S0001i	AB129930.1	D19S213	Z16710	D2S0846i	AB139084.1

D13S0002i	AB129946.1	D19S214	Z16724	D2S0847i	AB139490.1
D13S0003i	AB129950.1	D19S217	Z16747	D2S0848i	AB139657.1
D13S0004i	AB133744.1	D19S218	Z16938	D2S0849i	AB140992.1
D13S0005i	AB134082.1	D19S220	Z16977	D2S0850i	AB140993.1
D13S0006i	AB134083.1	D19S221	Z17017	D2S0851i	AB140995.1
D13S0007i	AB134086.1	D19S222	Z17044	D2S0852i	AB140981.1
D13S0008i	AB129126.1	D19S224	Z17078	D2S0853i	AB140996.1
D13S0009i	AB134087.1	D19S226	Z17155	D2S0854i	AB140997.1
D13S0010i	AB134091.1	D19S228	Z17070	D2S0855i	AB140998.1
D13S0011i	AB134092.1	D19S404	Z23409	D2S0856i	AB141000.1
D13S0012i	AB134093.1	D19S405	Z23556	D2S0857i	AB141001.1
D13S0013i	AB134095.1	D19S406	Z23560	D2S0858i	AB141002.1

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D13S0014i	AB134096.1	D19S408	Z23736	D2S0859i	AB141003.1
D13S0015i	AB129127.1	D19S410	Z23987	D2S0861i	AB141006.1
D13S0016i	AB134099.1	D19S412	Z24042	D2S0863i	AB141008.1
D13S0017i	AB134100.1	D19S413	Z24114	D2S0864i	AB141011.1
D13S0018i	AB134101.1	D19S415	Z24227	D2S0865i	AB141012.1
D13S0019i	AB134103.1	D19S416	Z24254	D2S0866i	AB141013.1
D13S0020i	AB134104.1	D19S417	Z24259	D2S0867i	AB141014.1
D13S0021i	AB134105.1	D19S418	Z24347	D2S0868i	AB141015.1
D13S0022i	AB134107.1	D19S419	Z24407	D2S0869i	AB141017.1
D13S0023i	AB134108.1	D19S421	Z24619	D2S0870i	AB141018.1
D13S0025i	AB134111.1	D19S422	Z24620	D2S0871i	AB141019.1
D13S0026i	AB134113.1	D19S424	Z24649	D2S0872i	AB141020.1

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D13S0027i	AB134114.1	D19S425	Z24660	D2S0873i	AB141021.1
D13S0028i	AB134116.1	D19S434	G08039	D2S0874i	AB141022.1
D13S0029i	AB134117.1	D19S565	Z51674	D2S0875i	AB141024.1
D13S0030i	AB134118.1	D19S566	Z52152	D2S0876i	AB141025.1
D13S0031i	AB134119.1	D19S567	Z50901	D2S0877i	AB141026.1
D13S0032i	AB134120.1	D19S568	Z51477	D2S0878i	AB141027.1
D13S0033i	AB134122.1	D19S570	Z51355	D2S0879i	AB141028.1
D13S0034i	AB134123.1	D19S571	Z51499	D2S0880i	AB141030.1
D13S0035i	AB134124.1	D19S572	Z51933	D2S0881i	AB141031.1
D13S0036i	AB134126.1	D19S574	Z51407	D2S0882i	AB141032.1
D13S0037i	AB134127.1	D19S583	G08016	D2S0883i	AB129245.1
D13S0038i	AB134128.1	D19S586	G08024	D2S0884i	AB141033.1

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D13S0039i	AB134129.1	D19S587	G08023	D2S0885i	AB141034.1
D13S0040i	AB134131.1	D19S588	G08025	D2S0886i	AB141035.1
D13S0041i	AB134132.1	D19S590	G09605	D2S0887i	AB141036.1
D13S0042i	AB134133.1	D19S591	G09745	D2S0888i	AB141037.1
D13S0043i	AB134134.1	D19S593	G08032	D2S0889i	AB141038.1
D13S0044i	AB134135.1	D19S604	Z53032	D2S0890i	AB141039.1
D13S0045i	AB129128.1	D19S605	Z53049	D2S0891i	AB141040.1
D13S0046i	AB134137.1	D19S606	Z53152	D2S0892i	AB141041.1
D13S0047i	AB134138.1	D19S840	Z53125	D2S0893i	AB141042.1
D13S0048i	AB134139.1	D19S866	Z52072	D2S0894i	AB141043.1
D13S0049i	AB134140.1	D19S867	Z52103	D2S0895i	AB141044.1
D13S0050i	AB134143.1	D19S868	Z52315	D2S0896i	AB129246.1

D13S0051i	AB134144.1	D19S869	Z52372	D2S0897i	AB141045.1
D13S0052i	AB134146.1	D19S870	Z52416	D2S0898i	AB141046.1
D13S0053i	AB129129.1	D19S872	Z52451	D2S0899i	AB141047.1
D13S0054i	AB134147.1	D19S873	Z52529	D2S0900i	AB141048.1
D13S0055i	AB134148.1	D19S876	Z52641	D2S0901i	AB141050.1
D13S0056i	AB134149.1	D19S877	Z52700	D2S0902i	AB141051.1
D13S0057i	AB134150.1	D19S878	Z52750	D2S0903i	AB141052.1
D13S0058i	AB134152.1	D19S879	Z52767	D2S0904i	AB129247.1
D13S0059i	AB134153.1	D19S881	Z52770	D2S0905i	AB141053.1
D13S0060i	AB134154.1	D19S885	Z52853	D2S0906i	AB141054.1
D13S0061i	AB134155.1	D19S886	Z52881	D2S0907i	AB141055.1
D13S0062i	AB134156.1	D19S887	Z52882	D2S0908i	AB141057.1

D13S0063i	AB134157.1	D19S888	Z52940	D2S0909i	AB141058.1
D13S0064i	AB134158.1	D19S893	Z53044	D2S0910i	AB141059.1
D13S0065i	AB134160.1	D19S894	Z53052	D2S0911i	AB141060.1
D13S0066i	AB134162.1	D19S896	Z53090	D2S0912i	AB141061.1
D13S0067i	AB134151.1	D19S897	Z53104	D2S0913i	AB141062.1
D13S0068i	AB134168.1	D19S898	Z53112	D2S0915i	AB141064.1
D13S0069i	AB134171.1	D19S899	Z53118	D2S0916i	AB141066.1
D13S0070i	AB134174.1	D19S902	Z53165	D2S0917i	AB141067.1
D13S0071i	AB134177.1	D19S905	Z53201	D2S0918i	AB141068.1
D13S0072i	AB134178.1	D19S907	Z53244	D2S0919i	AB141070.1
D13S0073i	AB134180.1	D19S909	Z53291	D2S0920i	AB141071.1
D13S0074i	AB134186.1	D19S911	Z53385	D2S0921i	AB141072.1



D13S0075i	AB134187.1	D19S912	Z53426	D2S0922i	AB141073.1
D13S0076i	AB134188.1	D19S914	Z53492	D2S0923i	AB141074.1
D13S0077i	AB134189.1	D19S916	Z53612	D2S0925i	AB141077.1
D13S0078i	AB134190.1	D19S917	Z53627	D2S0926i	AB141079.1
D13S0079i	AB134191.1	D19S918	Z53671	D2S0927i	AB141080.1
D13S0080i	AB134196.1	D19S921	Z53756	D2S0928i	AB141081.1
D13S0081i	AB134197.1	D19S922	Z53769	D2S0929i	AB141082.1
D13S0082i	AB134199.1	D19S926	Z53923	D2S0930i	AB141083.1
D13S0083i	AB134200.1	D19S928	Z54029	D2S0931i	AB141084.1
D13S0084i	AB134203.1	D19S929	Z51563	D2S0932i	AB141086.1
D13S0085i	AB134204.1	D19S930	Z51641	D2S0933i	AB141087.1
D13S0086i	AB134205.1	D19S931	Z51747	D2S0935i	AB143394.1

D13S0087i	AB134207.1	D19S932	Z51953	D2S0936i	AB143395.1
D13S0088i	AB136451.1	D1S0001i	AB129513.1	D2S0937i	AB129311.1
D13S0089i	AB136617.1	D1S0002i	AB129516.1	D2S0938i	AB143396.1
D13S0090i	AB136785.1	D1S0003i	AB129517.1	D2S0939i	AB143397.1
D13S0091i	AB136786.1	D1S0004i	AB129518.1	D2S0940i	AB143398.1
D13S0092i	AB136788.1	D1S0005i	AB129520.1	D2S0941i	AB143399.1
D13S0093i	AB136791.1	D1S0007i	AB129768.1	D2S0942i	AB143400.1
D13S0094i	AB137336.1	D1S0008i	AB129771.1	D2S0943i	AB143401.1
D13S0095i	AB137338.1	D1S0009i	AB129772.1	D2S0945i	AB143403.1
D13S0096i	AB137344.1	D1S0010i	AB129773.1	D2S0947i	AB143405.1
D13S0097i	AB137348.1	D1S0011i	AB129775.1	D2S0948i	AB143406.1
D13S0098i	AB129004.1	D1S0012i	AB129777.1	D2S0949i	AB143407.1

D13S0099i	AB137350.1	D1S0013i	AB129778.1	D2S0950i	AB143408.1
D13S0100i	AB137351.1	D1S0014i	AB129779.1	D2S0951i	AB143409.1
D13S0101i	AB137352.1	D1S0016i	AB129784.1	D2S0952i	AB143410.1
D13S0102i	AB137353.1	D1S0017i	AB129785.1	D2S0953i	AB143411.1
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D13S0324i	AB142120.1	D1S0231i	AB131293.1	D2S1154i	AB143623.1
D13S0325i	AB142122.1	D1S0232i	AB131294.1	D2S1155i	AB143624.1
D13S0326i	AB142123.1	D1S0233i	AB131295.1	D2S1156i	AB143625.1
D13S0327i	AB142124.1	D1S0234i	AB131297.1	D2S1158i	AB143627.1
D13S0328i	AB142125.1	D1S0235i	AB131298.1	D2S1159i	AB143628.1
D13S0329i	AB142126.1	D1S0236i	AB131299.1	D2S116	Z16506
D13S0330i	AB142127.1	D1S0237i	AB131303.1	D2S1160i	AB143629.1
D13S0331i	AB142128.1	D1S0238i	AB131304.1	D2S1161i	AB143630.1

D13S0332i	AB142129.1	D1S0239i	AB131305.1	D2S1162i	AB143631.1
D13S0334i	AB142131.1	D1S0240i	AB131307.1	D2S1163i	AB143632.1
D13S0335i	AB142132.1	D1S0241i	AB131308.1	D2S1164i	AB143633.1
D13S0336i	AB142133.1	D1S0242i	AB131310.1	D2S1165i	AB143634.1
D13S0337i	AB142134.1	D1S0243i	AB131312.1	D2S1166i	AB143635.1
D13S0338i	AB142135.1	D1S0244i	AB131313.1	D2S1167i	AB143637.1
D13S0339i	AB129274.1	D1S0246i	AB131315.1	D2S1168i	AB143638.1
D13S0340i	AB142138.1	D1S0247i	AB131316.1	D2S1169i	AB143639.1
D13S0341i	AB142139.1	D1S0248i	AB131317.1	D2S117	Z16508
D13S0342i	AB142140.1	D1S0249i	AB131319.1	D2S1170i	AB143640.1
D13S0343i	AB142143.1	D1S0250i	AB131320.1	D2S1171i	AB143641.1
D13S0344i	AB142144.1	D1S0251i	AB131321.1	D2S1172i	AB143642.1

D13S0345i	AB142145.1	D1S0252i	AB131322.1	D2S1173i	AB143643.1
D13S0346i	AB142146.1	D1S0253i	AB131323.1	D2S1174i	AB143644.1
D13S0347i	AB142147.1	D1S0254i	AB131324.1	D2S1175i	AB143645.1
D13S0348i	AB142151.1	D1S0255i	AB131328.1	D2S1176i	AB143646.1
D13S0349i	AB142152.1	D1S0257i	AB131330.1	D2S1177i	AB143647.1
D13S0350i	AB142153.1	D1S0258i	AB131332.1	D2S1178i	AB143648.1
D13S0351i	AB142154.1	D1S0259i	AB131333.1	D2S1179i	AB143649.1
D13S0352i	AB142156.1	D1S0260i	AB131334.1	D2S118	Z16511
D13S0353i	AB142157.1	D1S0261i	AB131335.1	D2S1180i	AB143650.1
D13S0354i	AB143615.1	D1S0262i	AB131336.1	D2S1181i	AB143651.1
D13S0355i	AB145681.1	D1S0263i	AB131337.1	D2S1182i	AB143652.1
D13S0356i	AB145682.1	D1S0264i	AB131339.1	D2S1183i	AB143653.1

D13S0357i	AB145683.1	D1S0265i	AB131340.1	D2S1184i	AB143654.1
D13S0358i	AB145685.1	D1S0266i	AB131342.1	D2S1185i	AB143655.1
D13S0359i	AB145686.1	D1S0267i	AB129065.1	D2S1186i	AB143656.1
D13S0360i	AB145687.1	D1S0268i	AB131345.1	D2S1187i	AB143657.1
D13S0361i	AB145688.1	D1S0269i	AB131346.1	D2S1188i	AB143659.1
D13S0362i	AB145689.1	D1S0270i	AB131347.1	D2S1189i	AB143660.1
D13S0363i	AB145691.1	D1S0271i	AB131348.1	D2S119	Z16531
D13S0364i	AB145692.1	D1S0272i	AB131349.1	D2S1190i	AB143661.1
D13S0365i	AB145693.1	D1S0273i	AB131350.1	D2S1191i	AB143662.1
D13S0367i	AB145698.1	D1S0274i	AB131351.1	D2S1192i	AB143663.1
D13S0368i	AB145699.1	D1S0275i	AB131352.1	D2S1193i	AB143664.1
D13S0369i	AB145700.1	D1S0276i	AB131356.1	D2S1194i	AB143665.1

D13S0370i	AB145701.1	D1S0277i	AB131357.1	D2S1195i	AB143666.1
D13S0371i	AB145702.1	D1S0279i	AB131361.1	D2S1196i	AB143667.1
D13S0372i	AB145705.1	D1S0280i	AB131362.1	D2S1197i	AB143669.1
D13S0375i	AB145708.1	D1S0281i	AB129067.1	D2S1198i	AB129317.1
D13S0376i	AB145709.1	D1S0282i	AB131368.1	D2S1199i	AB143670.1
D13S0377i	AB145710.1	D1S0283i	AB131369.1	D2S1200i	AB143671.1
D13S0378i	AB145711.1	D1S0284i	AB131370.1	D2S1201i	AB143672.1
D13S0379i	AB145712.1	D1S0285i	AB131371.1	D2S1202i	AB143673.1
D13S0380i	AB145713.1	D1S0286i	AB131375.1	D2S1203i	AB143675.1
D13S0381i	AB145715.1	D1S0287i	AB131377.1	D2S1204i	AB143676.1
D13S0382i	AB145716.1	D1S0288i	AB131382.1	D2S1205i	AB143677.1
D13S0383i	AB145717.1	D1S0289i	AB131383.1	D2S1206i	AB143678.1

D13S0385i	AB145719.1	D1S0290i	AB131387.1	D2S1207i	AB143679.1
D13S0386i	AB145720.1	D1S0291i	AB131388.1	D2S1208i	AB143680.1
D13S0387i	AB145721.1	D1S0293i	AB132900.1	D2S1209i	AB143681.1
D13S0388i	AB145722.1	D1S0294i	AB133168.1	D2S121	Z16545
D13S0389i	AB145723.1	D1S0295i	AB133588.1	D2S1210i	AB143682.1
D13S0390i	AB145724.1	D1S0296i	AB133633.1	D2S1211i	AB143684.1
D13S0391i	AB145726.1	D1S0297i	AB129122.1	D2S1212i	AB143686.1
D13S0392i	AB145727.1	D1S0298i	AB134069.1	D2S1213i	AB143687.1
D13S0393i	AB145728.1	D1S0299i	AB134079.1	D2S1214i	AB143688.1
D13S0394i	AB145729.1	D1S0300i	AB134393.1	D2S1215i	AB143690.1
D13S0395i	AB145730.1	D1S0301i	AB135302.1	D2S1216i	AB143691.1
D13S0396i	AB145731.1	D1S0303i	AB135732.1	D2S1217i	AB143692.1



D13S0397i	AB145732.1	D1S0304i	AB135733.1	D2S1218i	AB143693.1
D13S0398i	AB145733.1	D1S0305i	AB135734.1	D2S1219i	AB143694.1
D13S0400i	AB145735.1	D1S0306i	AB135735.1	D2S122	Z16546
D13S0402i	AB145737.1	D1S0307i	AB135736.1	D2S1220i	AB143695.1
D13S0404i	AB145739.1	D1S0308i	AB135737.1	D2S1221i	AB129318.1
D13S0405i	AB145740.1	D1S0309i	AB135738.1	D2S1222i	AB143697.1
D13S0406i	AB145741.1	D1S0310i	AB135741.1	D2S1223i	AB143698.1
D13S0407i	AB145742.1	D1S0311i	AB135743.1	D2S1224i	AB143699.1
D13S0408i	AB145743.1	D1S0312i	AB135745.1	D2S1225i	AB143700.1
D13S0410i	AB145745.1	D1S0313i	AB135746.1	D2S1226i	AB143701.1
D13S0412i	AB145747.1	D1S0314i	AB135748.1	D2S1227i	AB145344.1
D13S0413i	AB145748.1	D1S0315i	AB135751.1	D2S1228i	AB145345.1

D13S0414i	AB145749.1	D1S0316i	AB135754.1	D2S1229i	AB145346.1
D13S0415i	AB145750.1	D1S0317i	AB135755.1	D2S1230i	AB145347.1
D13S0416i	AB145751.1	D1S0318i	AB135756.1	D2S1231i	AB145348.1
D13S0417i	AB145752.1	D1S0319i	AB135759.1	D2S1232i	AB145349.1
D13S0418i	AB145753.1	D1S0320i	AB135760.1	D2S1233i	AB145350.1
D13S0419i	AB145754.1	D1S0321i	AB135762.1	D2S1234i	AB145351.1
D13S0420i	AB146173.1	D1S0322i	AB135764.1	D2S1235i	AB145352.1
D13S0421i	AB146186.1	D1S0324i	AB135769.1	D2S1236i	AB145353.1
D13S0422i	AB146193.1	D1S0325i	AB135770.1	D2S1237i	AB145354.1
D13S0423i	AB146209.1	D1S0326i	AB135771.1	D2S1238i	AB145355.1
D13S0424i	AB146210.1	D1S0327i	AB135773.1	D2S1239i	AB145356.1
D13S0425i	AB146211.1	D1S0328i	AB135774.1	D2S1240i	AB145357.1

D13S0426i	AB146218.1	D1S0329i	AB135775.1	D2S1242i	AB145358.1
D13S0427i	AB146219.1	D1S0331i	AB135777.1	D2S1243i	AB145359.1
D13S0428i	AB146220.1	D1S0332i	AB135778.1	D2S1244i	AB145360.1
D13S0429i	AB146227.1	D1S0333i	AB135779.1	D2S1245i	AB145361.1
D13S0430i	AB146228.1	D1S0334i	AB135781.1	D2S1246i	AB145362.1
D13S0431i	AB146234.1	D1S0335i	AB135783.1	D2S1247i	AB145363.1
D13S0432i	AB146235.1	D1S0336i	AB135785.1	D2S1248i	AB145364.1
D13S0433i	AB146240.1	D1S0337i	AB135786.1	D2S125	Z16591
D13S0434i	AB146241.1	D1S0338i	AB135787.1	D2S1250i	AB145366.1
D13S0435i	AB146246.1	D1S0339i	AB135788.1	D2S1251i	AB145367.1
D13S0436i	AB146247.1	D1S0340i	AB135789.1	D2S1252i	AB145368.1
D13S0437i	AB146252.1	D1S0341i	AB135791.1	D2S1253i	AB145369.1

D13S0438i	AB146253.1	D1S0342i	AB135792.1	D2S1254i	AB145370.1
D13S0439i	AB146259.1	D1S0343i	AB135793.1	D2S1255i	AB145371.1
D13S0440i	AB129374.1	D1S0344i	AB135794.1	D2S1256i	AB145372.1
D13S0441i	AB146878.1	D1S0345i	AB135795.1	D2S1257i	AB145373.1
D13S0442i	AB146879.1	D1S0346i	AB135797.1	D2S1258i	AB145374.1
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D13S0444i	AB146887.1	D1S0348i	AB135799.1	D2S126	Z16609
D13S0445i	AB146888.1	D1S0349i	AB135802.1	D2S1260i	AB145376.1
D13S0446i	AB146889.1	D1S0350i	AB135803.1	D2S1261i	AB145377.1
D13S0447i	AB146890.1	D1S0352i	AB135805.1	D2S1262i	AB145378.1
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D13S0449i	AB146898.1	D1S0354i	AB135807.1	D2S1264i	AB145380.1

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D13S0451i	AB146901.1	D1S0356i	AB135810.1	D2S1266i	AB129502.1
D13S0452i	AB146904.1	D1S0357i	AB135811.1	D2S1267i	AB145382.1
D13S0453i	AB146905.1	D1S0360i	AB135817.1	D2S1268i	AB145383.1
D13S0454i	AB146906.1	D1S0361i	AB135818.1	D2S1269i	AB145384.1
D13S0455i	AB146910.1	D1S0362i	AB135819.1	D2S127	Z16610
D13S0456i	AB146911.1	D1S0363i	AB135821.1	D2S1270i	AB145385.1
D13S0457i	AB146912.1	D1S0364i	AB135822.1	D2S1271i	AB145386.1
D13S0458i	AB146914.1	D1S0365i	AB135823.1	D2S1272i	AB145387.1
D13S0459i	AB146915.1	D1S0366i	AB135824.1	D2S1273i	AB145388.1
D13S0460i	AB146916.1	D1S0367i	AB135825.1	D2S1274i	AB145389.1
D13S0461i	AB146917.1	D1S0368i	AB135827.1	D2S1275i	AB145390.1

D13S0462i	AB146918.1	D1S0369i	AB135829.1	D2S1276i	AB145391.1
D13S1226	Z52063	D1S0371i	AB135832.1	D2S1277i	AB145392.1
D13S1227	Z52070	D1S0372i	AB135833.1	D2S1278i	AB145394.1
D13S1228	Z52073	D1S0374i	AB135835.1	D2S1279i	AB145395.1
D13S1229	Z52085	D1S0375i	AB135836.1	D2S1280i	AB145396.1
D13S1230	Z52106	D1S0376i	AB135839.1	D2S1281i	AB145397.1
D13S1232	Z51013	D1S0377i	AB135841.1	D2S1282i	AB145398.1
D13S1235	Z52165	D1S0378i	AB135842.1	D2S1283i	AB145399.1
D13S1236	Z52183	D1S0379i	AB135844.1	D2S1284i	AB145400.1
D13S1237	Z52197	D1S0380i	AB135845.1	D2S1285i	AB145401.1
D13S1238	Z52271	D1S0381i	AB135846.1	D2S1286i	AB145402.1
D13S1239	Z52352	D1S0382i	AB135847.1	D2S1287i	AB145403.1

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D13S1240	Z52455	D1S0383i	AB135850.1	D2S1288i	AB145404.1
D13S1241	Z52479	D1S0384i	AB135851.1	D2S1289i	AB145405.1
D13S1242	Z52496	D1S0386i	AB135853.1	D2S129	Z16660
D13S1243	Z52530	D1S0387i	AB135854.1	D2S1290i	AB145406.1
D13S1244	Z52619	D1S0388i	AB135855.1	D2S1291i	AB129362.1
D13S1246	Z52643	D1S0391i	AB135858.1	D2S1292i	AB145407.1
D13S1247	Z52659	D1S0392i	AB135859.1	D2S1293i	AB145408.1
D13S1248	Z52702	D1S0393i	AB135861.1	D2S1294i	AB145409.1
D13S1249	Z52757	D1S0394i	AB135862.1	D2S1295i	AB145410.1
D13S1250	Z52781	D1S0395i	AB135863.1	D2S1296i	AB145411.1
D13S1251	Z52830	D1S0396i	AB135864.1	D2S1297i	AB145412.1
D13S1252	Z52865	D1S0397i	AB135866.1	D2S1298i	AB145413.1

D13S1253	Z52908	D1S0398i	AB135867.1	D2S1299i	AB145414.1
D13S1254	Z53066	D1S0399i	AB135868.1	D2S130	Z16672
D13S1255	Z53255	D1S0400i	AB135869.1	D2S1300i	AB145415.1
D13S1259	Z53391	D1S0401i	AB135870.1	D2S1301i	AB145416.1
D13S1260	Z53397	D1S0402i	AB135871.1	D2S1302i	AB145418.1
D13S1261	Z53445	D1S0403i	AB135873.1	D2S1303i	AB145419.1
D13S1263	Z53540	D1S0405i	AB135876.1	D2S1304i	AB145421.1
D13S1264	Z53541	D1S0406i	AB135877.1	D2S1305	Z67774
D13S1265	Z53548	D1S0407i	AB135879.1	D2S1305i	AB145422.1
D13S1266	Z53575	D1S0410i	AB135884.1	D2S1306i	AB145425.1
D13S1267	Z53590	D1S0411i	AB135885.1	D2S1307i	AB145426.1
D13S1268	Z53600	D1S0412i	AB135887.1	D2S1308i	AB145428.1



D13S1270	Z53633	D1S0413i	AB129158.1	D2S1309i	AB145430.1
D13S1272	Z53650	D1S0414i	AB135890.1	D2S1310	Z67820
D13S1273	Z53660	D1S0415i	AB135891.1	D2S1310i	AB145431.1
D13S1274	Z53662	D1S0416i	AB135892.1	D2S1311i	AB145433.1
D13S1275	Z53677	D1S0417i	AB135893.1	D2S1312i	AB145434.1
D13S1276	Z53710	D1S0418i	AB135894.1	D2S1313i	AB145435.1
D13S1277	Z53751	D1S0419i	AB135896.1	D2S1314i	AB145437.1
D13S1278	Z53811	D1S0420i	AB135898.1	D2S1315i	AB145438.1
D13S1279	Z53877	D1S0421i	AB135899.1	D2S1316i	AB145439.1
D13S1280	Z53889	D1S0422i	AB135900.1	D2S1317i	AB146053.1
D13S1281	Z53954	D1S0423i	AB135901.1	D2S1318i	AB146055.1
D13S1284	Z54027	D1S0424i	AB135902.1	D2S1319i	AB146056.1

D13S1285	Z54031	D1S0425i	AB135904.1	D2S132	Z16700
D13S1286	Z54032	D1S0426i	AB135906.1	D2S1320i	AB146058.1
D13S1287	Z54034	D1S0427i	AB135865.1	D2S1321	G07875
D13S1288	Z54067	D1S0428i	AB135907.1	D2S1321i	AB146059.1
D13S1290	Z50917	D1S0429i	AB135908.1	D2S1322	G08114
D13S1291	Z51323	D1S0430i	AB135909.1	D2S1322i	AB146060.1
D13S1294	Z51376	D1S0431i	AB135911.1	D2S1323i	AB146061.1
D13S1295	Z50930	D1S0432i	AB135912.1	D2S1324i	AB146062.1
D13S1296	Z51394	D1S0433i	AB135913.1	D2S1325	G08133
D13S1297	Z51396	D1S0434i	AB135914.1	D2S1325i	AB146063.1
D13S1298	Z51453	D1S0435i	AB135915.1	D2S1326i	AB146064.1
D13S1300	Z51497	D1S0436i	AB135916.1	D2S1327	G08138

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D13S1301	Z51506	D1S0437i	AB135917.1	D2S1327i	AB146065.1
D13S1302	Z51540	D1S0438i	AB135918.1	D2S1328i	AB146066.1
D13S1303	Z51553	D1S0439i	AB135919.1	D2S1329	G08141
D13S1304	Z51571	D1S0440i	AB135920.1	D2S1329i	AB146069.1
D13S1305	Z51588	D1S0441i	AB135921.1	D2S133	Z16757
D13S1306	Z51670	D1S0442i	AB135922.1	D2S1330	G08146
D13S1307	Z51671	D1S0444i	AB135926.1	D2S1330i	AB146070.1
D13S1308	Z51676	D1S0445i	AB135927.1	D2S1331i	AB146071.1
D13S1311	Z50964	D1S0446i	AB135929.1	D2S1332i	AB146072.1
D13S1312	Z51719	D1S0447i	AB135930.1	D2S1333	G08155
D13S1315	Z51748	D1S0448i	AB135932.1	D2S1333i	AB146074.1
D13S1316	Z51771	D1S0449i	AB135934.1	D2S1334i	AB146075.1

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D13S1317	Z51780	D1S0450i	AB135935.1	D2S1335i	AB146076.1
D13S1318	Z51782	D1S0453i	AB135938.1	D2S1336	G08195
D13S1319	Z51829	D1S0454i	AB135939.1	D2S1336i	AB146077.1
D13S1320	Z51847	D1S0455i	AB135940.1	D2S1337i	AB146078.1
D13S1322	Z51949	D1S0456i	AB135942.1	D2S1338i	AB146079.1
D13S1323	Z51972	D1S0457i	AB135943.1	D2S1339	G08204
D13S1324	Z51978	D1S0458i	AB135944.1	D2S1339i	AB146080.1
D13S1325	Z51982	D1S0459i	AB135947.1	D2S134	Z16763
D13S1326	Z51988	D1S0461i	AB135952.1	D2S1340	G07873
D13S1327	Z52016	D1S0462i	AB135953.1	D2S1340i	AB146083.1
D13S152	Z16464	D1S0463i	AB135954.1	D2S1341i	AB146084.1
D13S154	Z16507	D1S0464i	AB135955.1	D2S1342i	AB146085.1

D13S156	Z16552	D1S0465i	AB135956.1	D2S1343	G07877
D13S157	Z16560	D1S0466i	AB135958.1	D2S1343i	AB146086.1
D13S158	Z16639	D1S0467i	AB135961.1	D2S1344i	AB146087.1
D13S160	Z16697	D1S0468i	AB135962.1	D2S1345	G07876
D13S161	Z16802	D1S0469i	AB135965.1	D2S1345i	AB129372.1
D13S162	Z16815	D1S0470i	AB135968.1	D2S1346i	AB146089.1
D13S163	Z16817	D1S0472i	AB135973.1	D2S1347	G07880
D13S164	Z16858	D1S0474i	AB135975.1	D2S1347i	AB146090.1
D13S165	Z16900	D1S0475i	AB135976.1	D2S1348i	AB146091.1
D13S166	Z16916	D1S0476i	AB135978.1	D2S1349	G07882
D13S168	Z16952	D1S0477i	AB135979.1	D2S1349i	AB146093.1
D13S173	Z17174	D1S0478i	AB135981.1	D2S135	Z16767

D13S174	Z17111	D1S0479i	AB135982.1	D2S1350i	AB146094.1
D13S176	Z17184	D1S0480i	AB135983.1	D2S1351	G09782
D13S217	Z17334	D1S0481i	AB135984.1	D2S1351i	AB146198.1
D13S218	Z17256	D1S0482i	AB135985.1	D2S1352	G07883
D13S219	Z17262	D1S0483i	AB135986.1	D2S1352i	AB146269.1
D13S220	Z17264	D1S0484i	AB135987.1	D2S1353	G07884
D13S221	Z17272	D1S0485i	AB135989.1	D2S1353i	AB146270.1
D13S259	Z23418	D1S0486i	AB135990.1	D2S1354i	AB146271.1
D13S260	Z23433	D1S0487i	AB135991.1	D2S1355i	AB146273.1
D13S262	Z23546	D1S0489i	AB135998.1	D2S1356i	AB146274.1
D13S264	Z23654	D1S0490i	AB136000.1	D2S1357	G09343
D13S265	Z23662	D1S0491i	AB136001.1	D2S1357i	AB146275.1

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D13S266	Z23689	D1S0492i	AB136003.1	D2S1358i	AB146280.1
D13S268	Z23735	D1S0493i	AB136004.1	D2S1359i	AB146281.1
D13S269	Z23773	D1S0494i	AB136007.1	D2S136	Z16769
D13S272	Z23374	D1S0495i	AB136010.1	D2S1360i	AB146282.1
D13S273	Z23383	D1S0496i	AB136011.1	D2S1361	G09193
D13S274	Z23385	D1S0497i	AB136012.1	D2S1361i	AB146283.1
D13S275	Z23872	D1S0498i	AB136013.1	D2S1362i	AB146284.1
D13S276	Z23915	D1S0499i	AB136014.1	D2S1363i	AB146289.1
D13S278	Z24020	D1S0500i	AB136015.1	D2S1364i	AB146290.1
D13S280	Z24055	D1S0501i	AB136019.1	D2S1365i	AB146291.1
D13S281	Z24071	D1S0502i	AB136020.1	D2S1366	G09390
D13S283	Z24164	D1S0503i	AB136024.1	D2S1366i	AB146292.1

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D13S285	Z24276	D1S0505i	AB136026.1	D2S1367i	AB146296.1
D13S286	Z24295	D1S0506i	AB136029.1	D2S1368i	AB146297.1
D13S287	Z24331	D1S0507i	AB136030.1	D2S1369	G08144
D13S288	Z24342	D1S0508i	AB136031.1	D2S1369i	AB146298.1
D13S289	Z24370	D1S0509i	AB136032.1	D2S137	Z16770
D13S292	Z24601	D1S0510i	AB136034.1	D2S1370i	AB146301.1
D13S293	Z24629	D1S0511i	AB136036.1	D2S1371	G08143
D13S317	G09017	D1S0512i	AB136037.1	D2S1371i	AB146302.1
D13S318	G09009	D1S0513i	AB136038.1	D2S1372i	AB146303.1
D13S321	G08990	D1S0514i	AB136040.1	D2S1373i	AB146304.1
D13S322	G09155	D1S0515i	AB136042.1	D2S1374i	AB146305.1
D13S328	Z23355	D1S0516i	AB136043.1	D2S1375i	AB146306.1



D13S745	Z67861	D1S0517i	AB136044.1	D2S1376i	AB146308.1
D13S757	Z67811	D1S0518i	AB136045.1	D2S1378i	AB146310.1
D13S773	G09767	D1S0520i	AB136018.1	D2S1379	G08153
D13S775	G08978	D1S0521i	AB136047.1	D2S1379i	AB146314.1
D13S778	G08981	D1S0522i	AB136049.1	D2S1380i	AB146315.1
D13S782	G09724	D1S0523i	AB136050.1	D2S1381i	AB146316.1
D13S783	G09199	D1S0524i	AB136052.1	D2S1382i	AB146510.1
D13S784	G09183	D1S0525i	AB136053.1	D2S1383	G09624
D13S787	G08995	D1S0526i	AB136054.1	D2S1383i	AB146968.1
D13S789	G09597	D1S0527i	AB136055.1	D2S1384i	AB146969.1
D13S791	G09630	D1S0528i	AB136057.1	D2S1385i	AB146970.1
D13S792	G09000	D1S0530i	AB136059.1	D2S1386i	AB146971.1

D13S794	G09005	D1S0531i	AB136060.1	D2S1387	G08165
D13S797	G09011	D1S0532i	AB136061.1	D2S1387i	AB146972.1
D13S813	G08977	D1S0533i	AB136062.1	D2S1388i	AB146973.1
D14S0001i	AB129586.1	D1S0535i	AB136064.1	D2S1389i	AB146975.1
D14S0002i	AB129593.1	D1S0536i	AB136065.1	D2S139	Z16777
D14S0003i	AB129951.1	D1S0537i	AB136067.1	D2S1390i	AB146976.1
D14S0004i	AB130713.1	D1S0539i	AB129163.1	D2S1391i	AB146977.1
D14S0005i	AB130714.1	D1S0540i	AB136072.1	D2S1392i	AB146978.1
D14S0006i	AB130717.1	D1S0541i	AB136073.1	D2S1393	G09974
D14S0007i	AB130718.1	D1S0542i	AB136074.1	D2S1394i	AB146982.1
D14S0008i	AB130719.1	D1S0543i	AB136076.1	D2S1395i	AB146983.1
D14S0009i	AB130723.1	D1S0544i	AB136077.1	D2S1396	G08181

D14S0010i	AB130725.1	D1S0545i	AB136078.1	D2S1396i	AB146984.1
D14S0011i	AB130728.1	D1S0546i	AB136079.1	D2S1397i	AB146985.1
D14S0012i	AB133457.1	D1S0547i	AB136080.1	D2S1399	G08198
D14S0013i	AB134166.1	D1S0548i	AB136081.1	D2S1399i	AB146987.1
D14S0014i	AB134170.1	D1S0549i	AB136082.1	D2S140	Z16792
D14S0015i	AB134183.1	D1S0550i	AB136083.1	D2S1400	G08200
D14S0016i	AB134184.1	D1S0551i	AB136084.1	D2S1400i	AB146990.1
D14S0017i	AB134185.1	D1S0552i	AB136085.1	D2S1401i	AB146991.1
D14S0018i	AB134198.1	D1S0553i	AB136086.1	D2S1403i	AB146993.1
D14S0019i	AB134201.1	D1S0554i	AB136087.1	D2S1404i	AB146994.1
D14S0020i	AB134209.1	D1S0555i	AB136088.1	D2S1405i	AB146997.1
D14S0021i	AB134210.1	D1S0556i	AB136089.1	D2S1406i	AB146998.1

D14S0022i	AB134211.1	D1S0557i	AB136090.1	D2S1407i	AB147000.1
D14S0023i	AB134212.1	D1S0558i	AB136091.1	D2S1408i	AB147001.1
D14S0024i	AB134217.1	D1S0559i	AB136093.1	D2S1409i	AB147002.1
D14S0025i	AB134218.1	D1S0560i	AB129164.1	D2S141	Z16793
D14S0026i	AB134219.1	D1S0561i	AB136095.1	D2S1410i	AB147003.1
D14S0027i	AB134220.1	D1S0562i	AB136096.1	D2S1411i	AB147004.1
D14S0028i	AB134221.1	D1S0563i	AB136097.1	D2S1412i	AB147007.1
D14S0029i	AB134223.1	D1S0564i	AB136098.1	D2S1413i	AB147008.1
D14S0030i	AB134226.1	D1S0565i	AB136099.1	D2S1414i	AB147009.1
D14S0031i	AB134227.1	D1S0566i	AB136100.1	D2S1415i	AB147010.1
D14S0032i	AB128990.1	D1S0567i	AB136101.1	D2S1416i	AB147011.1
D14S0033i	AB134229.1	D1S0568i	AB136102.1	D2S1418i	AB147013.1

D14S0034i	AB129131.1	D1S0569i	AB136103.1	D2S1419i	AB147014.1
D14S0035i	AB134232.1	D1S0570i	AB136104.1	D2S142	Z16821
D14S0036i	AB134233.1	D1S0571i	AB136105.1	D2S1420i	AB147015.1
D14S0037i	AB134234.1	D1S0572i	AB136106.1	D2S1421i	AB147016.1
D14S0038i	AB134235.1	D1S0573i	AB136107.1	D2S1422i	AB147017.1
D14S0039i	AB134238.1	D1S0574i	AB136109.1	D2S1424i	AB147019.1
D14S0040i	AB134239.1	D1S0576i	AB136111.1	D2S1425i	AB147020.1
D14S0041i	AB134240.1	D1S0577i	AB136112.1	D2S1426i	AB147022.1
D14S0042i	AB134241.1	D1S0578i	AB136114.1	D2S1427i	AB147023.1
D14S0043i	AB134242.1	D1S0579i	AB136115.1	D2S1428i	AB147024.1
D14S0045i	AB134245.1	D1S0580i	AB136117.1	D2S1429i	AB147025.1
D14S0046i	AB134247.1	D1S0582i	AB136119.1	D2S143	Z16823

D14S0047i	AB134249.1	D1S0583i	AB136120.1	D2S1430i	AB147026.1
D14S0048i	AB134253.1	D1S0584i	AB136121.1	D2S1431i	AB147027.1
D14S0049i	AB134254.1	D1S0585i	AB136122.1	D2S144	Z16833
D14S0050i	AB134255.1	D1S0586i	AB129165.1	D2S146	Z16850
D14S0051i	AB134256.1	D1S0587i	AB136125.1	D2S149	Z16890
D14S0052i	AB134257.1	D1S0588i	AB136128.1	D2S150	Z16910
D14S0053i	AB134258.1	D1S0589i	AB136129.1	D2S151	Z16933
D14S0054i	AB134260.1	D1S0590i	AB136130.1	D2S152	Z16941
D14S0055i	AB134261.1	D1S0591i	AB136134.1	D2S156	Z16966
D14S0056i	AB134265.1	D1S0592i	AB136135.1	D2S158	Z16987
D14S0057i	AB134266.1	D1S0593i	AB136136.1	D2S159	Z16996
D14S0058i	AB134267.1	D1S0594i	AB136141.1	D2S160	Z17008

D14S0059i	AB134268.1	D1S0595i	AB136142.1	D2S161	Z17019
D14S0060i	AB134273.1	D1S0596i	AB136143.1	D2S162	Z17035
D14S0061i	AB134274.1	D1S0597i	AB136144.1	D2S163	Z17049
D14S0062i	AB134276.1	D1S0598i	AB136145.1	D2S164	Z17053
D14S0063i	AB134279.1	D1S0599i	AB136146.1	D2S166	Z17060
D14S0064i	AB134282.1	D1S0600i	AB136147.1	D2S169	Z17082
D14S0065i	AB134283.1	D1S0601i	AB136152.1	D2S170	Z17091
D14S0066i	AB134286.1	D1S0602i	AB136155.1	D2S171	Z17101
D14S0067i	AB134287.1	D1S0603i	AB136576.1	D2S172	Z17115
D14S0068i	AB134288.1	D1S0604i	AB137216.1	D2S173	Z17133
D14S0069i	AB134290.1	D1S0605i	AB129005.1	D2S174	Z17139
D14S0070i	AB134291.1	D1S0606i	AB137510.1	D2S175	Z17165

D14S0071i	AB134292.1	D1S0607i	AB137511.1	D2S177	Z17191
D14S0072i	AB134293.1	D1S0608i	AB137513.1	D2S1888	Z50885
D14S0073i	AB134298.1	D1S0609i	AB137515.1	D2S1889	Z51914
D14S0074i	AB134299.1	D1S0610i	AB137516.1	D2S1890	Z52348
D14S0075i	AB134300.1	D1S0611i	AB137517.1	D2S1891	Z53029
D14S0076i	AB134301.1	D1S0612i	AB137518.1	D2S1892	Z53056
D14S0077i	AB134302.1	D1S0613i	AB137519.1	D2S1893	Z53730
D14S0078i	AB134304.1	D1S0615i	AB137521.1	D2S1897	Z51604
D14S0079i	AB134305.1	D1S0617i	AB137525.1	D2S205	Z17269
D14S0080i	AB134306.1	D1S0618i	AB129181.1	D2S206	Z17274
D14S0081i	AB134310.1	D1S0620i	AB137528.1	D2S2109	Z51375
D14S0082i	AB134311.1	D1S0621i	AB137529.1	D2S2110	Z52119



D14S0083i	AB134312.1	D1S0622i	AB137530.1	D2S2111	Z52493
D14S0084i	AB134316.1	D1S0623i	AB137531.1	D2S2112	Z52812
D14S0086i	AB134318.1	D1S0624i	AB137533.1	D2S2115	Z53338
D14S0087i	AB134321.1	D1S0626i	AB137535.1	D2S2116	Z53498
D14S0088i	AB134322.1	D1S0627i	AB137536.1	D2S2144	Z51683
D14S0089i	AB134324.1	D1S0628i	AB137537.1	D2S2149	Z52050
D14S0090i	AB134325.1	D1S0629i	AB137538.1	D2S2150	Z52057
D14S0091i	AB134328.1	D1S0630i	AB137539.1	D2S2152	Z52074
D14S0092i	AB134329.1	D1S0631i	AB137540.1	D2S2155	Z52113
D14S0093i	AB134333.1	D1S0632i	AB137541.1	D2S2156	Z52131
D14S0094i	AB134334.1	D1S0633i	AB137542.1	D2S2157	Z52132
D14S0095i	AB134335.1	D1S0634i	AB137543.1	D2S2158	Z52144

D14S0096i	AB134337.1	D1S0636i	AB137545.1	D2S2159	Z52172
D14S0097i	AB134342.1	D1S0637i	AB137546.1	D2S2160	Z52178
D14S0098i	AB134348.1	D1S0638i	AB137547.1	D2S2161	Z52180
D14S0099i	AB134582.1	D1S0639i	AB137548.1	D2S2163	Z52198
D14S0100i	AB134673.1	D1S0640i	AB137549.1	D2S2164	Z52199
D14S0101i	AB134682.1	D1S0641i	AB137550.1	D2S2165	Z52200
D14S0102i	AB134692.1	D1S0642i	AB137552.1	D2S2166	Z52204
D14S0103i	AB129180.1	D1S0644i	AB137554.1	D2S2167	Z52206
D14S0104i	AB137375.1	D1S0645i	AB137555.1	D2S2168	Z52223
D14S0105i	AB138033.1	D1S0646i	AB137556.1	D2S2169	Z52225
D14S0106i	AB138034.1	D1S0649i	AB137559.1	D2S2171	Z51027
D14S0107i	AB138036.1	D1S0652i	AB137562.1	D2S2172	Z52268

D14S0108i	AB138037.1	D1S0653i	AB137563.1	D2S2173	Z52282
D14S0109i	AB138038.1	D1S0654i	AB137565.1	D2S2174	Z52305
D14S0110i	AB138045.1	D1S0655i	AB137566.1	D2S2175	Z52309
D14S0111i	AB138049.1	D1S0659i	AB137573.1	D2S2176	Z52316
D14S0112i	AB138050.1	D1S0662i	AB137577.1	D2S2177	Z52323
D14S0113i	AB140475.1	D1S0663i	AB137578.1	D2S2179	Z52355
D14S0114i	AB140476.1	D1S0664i	AB137579.1	D2S2180	Z51048
D14S0115i	AB140482.1	D1S0665i	AB137580.1	D2S2181	Z52418
D14S0116i	AB140483.1	D1S0666i	AB137581.1	D2S2182	Z52423
D14S0117i	AB140488.1	D1S0667i	AB137582.1	D2S2183	Z52425
D14S0118i	AB140489.1	D1S0668i	AB137583.1	D2S2184	Z52427
D14S0119i	AB140494.1	D1S0669i	AB137584.1	D2S2185	Z52440

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D14S0121i	AB140498.1	D1S0670i	AB137585.1	D2S2186	Z51053
D14S0122i	AB140502.1	D1S0671i	AB137586.1	D2S2189	Z52470
D14S0123i	AB140503.1	D1S0672i	AB137587.1	D2S2190	Z51059
D14S0124i	AB140504.1	D1S0674i	AB137589.1	D2S2193	Z52531
D14S0125i	AB140506.1	D1S0675i	AB137590.1	D2S2197	Z52595
D14S0126i	AB140510.1	D1S0676i	AB137591.1	D2S2198	Z51074
D14S0127i	AB140511.1	D1S0677i	AB137592.1	D2S2201	Z52639
D14S0128i	AB140513.1	D1S0680i	AB137595.1	D2S2202	Z52650
D14S0129i	AB140514.1	D1S0681i	AB137596.1	D2S2203	Z52652
D14S0130i	AB141257.1	D1S0682i	AB137597.1	D2S2204	Z52665
D14S0131i	AB141258.1	D1S0683i	AB137599.1	D2S2205	Z52670
D14S0133i	AB141263.1	D1S0685i	AB137602.1	D2S2206	Z52682

D14S0134i	AB141267.1	D1S0686i	AB137603.1	D2S2207	Z52683
D14S0135i	AB141268.1	D1S0688i	AB137605.1	D2S2208	Z52696
D14S0136i	AB141269.1	D1S0689i	AB137606.1	D2S2211	Z52724
D14S0137i	AB141272.1	D1S0690i	AB137607.1	D2S2212	Z52748
D14S0139i	AB141278.1	D1S0691i	AB137608.1	D2S2213	Z52763
D14S0140i	AB141279.1	D1S0692i	AB137609.1	D2S2214	Z52778
D14S0141i	AB141281.1	D1S0693i	AB137610.1	D2S2215	Z52782
D14S0142i	AB141282.1	D1S0694i	AB129182.1	D2S2216	Z52785
D14S0143i	AB141283.1	D1S0695i	AB137612.1	D2S2218	Z52797
D14S0144i	AB141289.1	D1S0696i	AB137613.1	D2S2220	Z52828
D14S0145i	AB141290.1	D1S0697i	AB137615.1	D2S2221	Z52842
D14S0146i	AB141291.1	D1S0698i	AB137616.1	D2S2222	Z52858

D14S0147i	AB141296.1	D1S0699i	AB137621.1	D2S2223	Z52868
D14S0148i	AB141297.1	D1S0700i	AB137631.1	D2S2224	Z52871
D14S0149i	AB141298.1	D1S0701i	AB137932.1	D2S2225	Z52876
D14S0150i	AB141299.1	D1S0707i	AB138379.1	D2S2227	Z52906
D14S0151i	AB141300.1	D1S0708i	AB138423.1	D2S2228	Z52916
D14S0152i	AB141301.1	D1S0709i	AB138427.1	D2S2229	Z52924
D14S0153i	AB141303.1	D1S0712i	AB140721.1	D2S2230	Z52938
D14S0154i	AB141304.1	D1S0713i	AB140957.1	D2S2232	Z52942
D14S0155i	AB141306.1	D1S0714i	AB140958.1	D2S2233	Z52944
D14S0156i	AB141309.1	D1S0715i	AB140959.1	D2S2235	Z52973
D14S0157i	AB141310.1	D1S0716i	AB140960.1	D2S2236	Z52982
D14S0158i	AB141311.1	D1S0717i	AB140961.1	D2S2237	Z51123

D14S0159i	AB141312.1	D1S0718i	AB140962.1	D2S2238	Z52986
D14S0160i	AB141316.1	D1S0719i	AB140963.1	D2S2240	Z52998
D14S0162i	AB141320.1	D1S0720i	AB140964.1	D2S2243	Z53017
D14S0163i	AB141321.1	D1S0721i	AB140965.1	D2S2245	Z53046
D14S0164i	AB141322.1	D1S0722i	AB140966.1	D2S2246	Z53055
D14S0165i	AB141326.1	D1S0723i	AB140967.1	D2S2247	Z53070
D14S0166i	AB141327.1	D1S0724i	AB140968.1	D2S2248	Z53074
D14S0167i	AB141328.1	D1S0725i	AB140969.1	D2S2249	Z53083
D14S0168i	AB141329.1	D1S0726i	AB140970.1	D2S2250	Z53105
D14S0169i	AB141330.1	D1S0727i	AB140971.1	D2S2253	Z53181
D14S0170i	AB141332.1	D1S0728i	AB140972.1	D2S2254	Z53188
D14S0171i	AB141333.1	D1S0729i	AB140973.1	D2S2255	Z53193

D14S0172i	AB142121.1	D1S0731i	AB140975.1	D2S2256	Z51146
D14S0173i	AB142136.1	D1S0732i	AB140976.1	D2S2258	Z53226
D14S0174i	AB142137.1	D1S0734i	AB140978.1	D2S2259	Z51151
D14S0175i	AB142141.1	D1S0735i	AB140979.1	D2S2261	Z53265
D14S0176i	AB142142.1	D1S0736i	AB140980.1	D2S2262	Z53295
D14S0177i	AB142148.1	D1S0737i	AB140982.1	D2S2263	Z53296
D14S0178i	AB142149.1	D1S0738i	AB140983.1	D2S2264	Z53305
D14S0179i	AB142150.1	D1S0739i	AB140984.1	D2S2265	Z53308
D14S0180i	AB142155.1	D1S0740i	AB140985.1	D2S2266	Z53314
D14S0181i	AB142159.1	D1S0741i	AB140986.1	D2S2267	Z53320
D14S0182i	AB142160.1	D1S0742i	AB140987.1	D2S2268	Z53325
D14S0183i	AB142161.1	D1S0743i	AB140988.1	D2S2269	Z53327



D14S0184i	AB142162.1	D1S0744i	AB140989.1	D2S2270	Z53328
D14S0185i	AB142163.1	D1S0745i	AB140990.1	D2S2271	Z53332
D14S0186i	AB142164.1	D1S0746i	AB140991.1	D2S2272	Z51175
D14S0187i	AB142165.1	D1S0747i	AB140994.1	D2S2274	Z53413
D14S0188i	AB142166.1	D1S0748i	AB140999.1	D2S2275	Z53417
D14S0189i	AB142167.1	D1S0749i	AB141010.1	D2S2277	Z53442
D14S0190i	AB142168.1	D1S0750i	AB141016.1	D2S2280	Z53480
D14S0193i	AB142171.1	D1S0751i	AB141657.1	D2S2281	Z53481
D14S0194i	AB142172.1	D1S0753i	AB129291.1	D2S2283	Z53500
D14S0195i	AB142173.1	D1S0754i	AB142679.1	D2S2284	Z53511
D14S0196i	AB142174.1	D1S0756i	AB142681.1	D2S2285	Z53512
D14S0197i	AB129275.1	D1S0757i	AB142682.1	D2S2286	Z53516

D14S0198i	AB142175.1	D1S0758i	AB142683.1	D2S2288	Z53528
D14S0199i	AB142176.1	D1S0759i	AB142684.1	D2S2291	Z53545
D14S0200i	AB142177.1	D1S0760i	AB142685.1	D2S2292	Z51200
D14S0201i	AB142178.1	D1S0761i	AB142686.1	D2S2294	Z53614
D14S0202i	AB142179.1	D1S0762i	AB142687.1	D2S2295	Z51204
D14S0203i	AB142180.1	D1S0763i	AB142688.1	D2S2296	Z51205
D14S0204i	AB142181.1	D1S0764i	AB142689.1	D2S2297	Z53642
D14S0205i	AB142182.1	D1S0765i	AB142690.1	D2S2298	Z53653
D14S0206i	AB142183.1	D1S0766i	AB142691.1	D2S2299	Z53666
D14S0207i	AB142184.1	D1S0767i	AB142692.1	D2S2301	Z53692
D14S0208i	AB142185.1	D1S0768i	AB142693.1	D2S2303	Z53780
D14S0209i	AB142186.1	D1S0769i	AB142694.1	D2S2304	Z53798

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D14S0211i	AB142188.1	D1S0770i	AB142695.1	D2S2306	Z53828
D14S0212i	AB142189.1	D1S0771i	AB142696.1	D2S2308	Z53842
D14S0213i	AB142190.1	D1S0772i	AB142697.1	D2S2309	Z51231
D14S0214i	AB142191.1	D1S0773i	AB142698.1	D2S2310	Z53855
D14S0215i	AB142192.1	D1S0774i	AB142699.1	D2S2312	Z53872
D14S0216i	AB142193.1	D1S0775i	AB142700.1	D2S2313	Z53873
D14S0217i	AB142194.1	D1S0776i	AB142701.1	D2S2315	Z53915
D14S0218i	AB142195.1	D1S0777i	AB142702.1	D2S2316	Z53917
D14S0219i	AB142196.1	D1S0778i	AB142703.1	D2S2317	Z53936
D14S0220i	AB142197.1	D1S0779i	AB142704.1	D2S2318	Z53937
D14S0221i	AB142198.1	D1S0780i	AB142705.1	D2S2320	Z53949
D14S0222i	AB142199.1	D1S0781i	AB142706.1	D2S2322	Z53966

D14S0223i	AB142200.1	D1S0782i	AB142707.1	D2S2323	Z53968
D14S0224i	AB142201.1	D1S0783i	AB142708.1	D2S2324	Z53970
D14S0225i	AB142202.1	D1S0784i	AB142709.1	D2S2325	Z53974
D14S0226i	AB142203.1	D1S0785i	AB142710.1	D2S2326	Z53983
D14S0227i	AB142204.1	D1S0786i	AB142711.1	D2S2327	Z53995
D14S0228i	AB129276.1	D1S0787i	AB142712.1	D2S2328	Z54003
D14S0229i	AB142205.1	D1S0788i	AB142713.1	D2S2329	Z54005
D14S0230i	AB142206.1	D1S0789i	AB142714.1	D2S2330	Z54008
D14S0231i	AB142207.1	D1S0790i	AB142715.1	D2S2331	Z54018
D14S0232i	AB142208.1	D1S0791i	AB142716.1	D2S2333	Z54050
D14S0233i	AB142209.1	D1S0792i	AB142717.1	D2S2335	Z51293
D14S0234i	AB142210.1	D1S0793i	AB142718.1	D2S2337	Z51312

D14S0235i	AB142211.1	D1S0794i	AB142719.1	D2S2341	Z51386
D14S0236i	AB142212.1	D1S0795i	AB142720.1	D2S2342	Z51416
D14S0237i	AB142213.1	D1S0796i	AB142721.1	D2S2344	Z51423
D14S0238i	AB142214.1	D1S0797i	AB142722.1	D2S2346	Z51456
D14S0239i	AB142215.1	D1S0798i	AB129292.1	D2S2347	Z51459
D14S0240i	AB142216.1	D1S0799i	AB142723.1	D2S2348	Z51488
D14S0241i	AB142217.1	D1S0800i	AB142724.1	D2S2349	Z51504
D14S0242i	AB142218.1	D1S0801i	AB142725.1	D2S2350	Z51511
D14S0243i	AB142219.1	D1S0802i	AB142726.1	D2S2353	Z50947
D14S0244i	AB142220.1	D1S0803i	AB142727.1	D2S2356	Z51623
D14S0245i	AB142221.1	D1S0804i	AB142728.1	D2S2357	Z51635
D14S0246i	AB142222.1	D1S0805i	AB142729.1	D2S2358	Z51640

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D14S0247i	AB142223.1	D1S0806i	AB142730.1	D2S2360	Z50955
D14S0248i	AB142224.1	D1S0807i	AB142731.1	D2S2361	Z51666
D14S0249i	AB142225.1	D1S0808i	AB142732.1	D2S2362	Z50958
D14S0250i	AB142226.1	D1S0809i	AB142733.1	D2S2363	Z51700
D14S0251i	AB142227.1	D1S0810i	AB142734.1	D2S2364	Z50884
D14S0252i	AB142228.1	D1S0811i	AB142735.1	D2S2365	Z50965
D14S0253i	AB142229.1	D1S0812i	AB142736.1	D2S2368	Z51756
D14S0254i	AB142230.1	D1S0813i	AB142737.1	D2S2369	Z51766
D14S0255i	AB142231.1	D1S0814i	AB142738.1	D2S2370	Z51785
D14S0256i	AB142232.1	D1S0815i	AB142739.1	D2S2371	Z51788
D14S0257i	AB142233.1	D1S0816i	AB142740.1	D2S2372	Z51789
D14S0258i	AB142234.1	D1S0817i	AB142741.1	D2S2374	Z51838

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D14S0259i	AB142235.1	D1S0818i	AB142742.1	D2S2375	Z51851
D14S0260i	AB142236.1	D1S0819i	AB129293.1	D2S2379	Z50985
D14S0261i	AB142237.1	D1S0820i	AB142743.1	D2S2380	Z51912
D14S0262i	AB142238.1	D1S0821i	AB142744.1	D2S2381	Z51915
D14S0263i	AB142239.1	D1S0822i	AB142745.1	D2S2383	Z51926
D14S0264i	AB142240.1	D1S0823i	AB142746.1	D2S2384	Z51940
D14S0265i	AB142241.1	D1S0824i	AB142747.1	D2S2385	Z51942
D14S0266i	AB142242.1	D1S0825i	AB142748.1	D2S2387	Z51958
D14S0267i	AB142243.1	D1S0826i	AB142749.1	D2S2388	Z51980
D14S0268i	AB142244.1	D1S0828i	AB142751.1	D2S2389	Z51990
D14S0269i	AB142245.1	D1S0829i	AB142752.1	D2S2393	Z52005
D14S0270i	AB142246.1	D1S0830i	AB142753.1	D2S2396	Z51000

D14S0271i	AB142247.1	D1S0831i	AB142754.1	D2S2397	Z52025
D14S0272i	AB142248.1	D1S0832i	AB142755.1	D2S280	Z23407
D14S0273i	AB142249.1	D1S0833i	AB142756.1	D2S282	Z23442
D14S0274i	AB142250.1	D1S0834i	AB142757.1	D2S283	Z23461
D14S0276i	AB129277.1	D1S0835i	AB142758.1	D2S284	Z23467
D14S0277i	AB142253.1	D1S0836i	AB142759.1	D2S285	Z23306
D14S0278i	AB142254.1	D1S0837i	AB142760.1	D2S289	Z23309
D14S0279i	AB142255.1	D1S0838i	AB142761.1	D2S290	Z23527
D14S0280i	AB142256.1	D1S0839i	AB142762.1	D2S291	Z23530
D14S0281i	AB142257.1	D1S0841i	AB142764.1	D2S292	Z23534
D14S0283i	AB142259.1	D1S0842i	AB142765.1	D2S293	Z23547
D14S0284i	AB142260.1	D1S0843i	AB142767.1	D2S296	Z23557



D14S0285i	AB142261.1	D1S0844i	AB142768.1	D2S297	Z23571
D14S0286i	AB142262.1	D1S0845i	AB142769.1	D2S299	Z23624
D14S0287i	AB142263.1	D1S0846i	AB142770.1	D2S300	Z23625
D14S0288i	AB142264.1	D1S0848i	AB142772.1	D2S301	Z23635
D14S0289i	AB142265.1	D1S0849i	AB142773.1	D2S302	Z23652
D14S0290i	AB142266.1	D1S0850i	AB142774.1	D2S303	Z23663
D14S0291i	AB142267.1	D1S0852i	AB142776.1	D2S304	Z23679
D14S0292i	AB142268.1	D1S0853i	AB142778.1	D2S305	Z23327
D14S0293i	AB142269.1	D1S0854i	AB142779.1	D2S306	Z23699
D14S0294i	AB142270.1	D1S0856i	AB142781.1	D2S307	Z23329
D14S0295i	AB142271.1	D1S0857i	AB129294.1	D2S309	Z23709
D14S0296i	AB142272.1	D1S0858i	AB142782.1	D2S310	Z23721

D14S0297i	AB142273.1	D1S0860i	AB142784.1	D2S311	Z23732
D14S0298i	AB142274.1	D1S0861i	AB142785.1	D2S312	Z23786
D14S0299i	AB142275.1	D1S0862i	AB142786.1	D2S313	Z23338
D14S0300i	AB142276.1	D1S0863i	AB142788.1	D2S314	Z23815
D14S0301i	AB142277.1	D1S0864i	AB142789.1	D2S315	Z23344
D14S0302i	AB142278.1	D1S0865i	AB142790.1	D2S317	Z23353
D14S0303i	AB142279.1	D1S0866i	AB142791.1	D2S318	Z23358
D14S0304i	AB142280.1	D1S0867i	AB142792.1	D2S319	Z23363
D14S0305i	AB129278.1	D1S0868i	AB142793.1	D2S320	Z23393
D14S0306i	AB142653.1	D1S0869i	AB142794.1	D2S321	Z23395
D14S0307i	AB142657.1	D1S0870i	AB142795.1	D2S322	Z23860
D14S0308i	AB142666.1	D1S0871i	AB142796.1	D2S323	Z23862

D14S0309i	AB129290.1	D1S0872i	AB142797.1	D2S325	Z23888
D14S0310i	AB142668.1	D1S0873i	AB142798.1	D2S328	Z23899
D14S0311i	AB142676.1	D1S0874i	AB142799.1	D2S329	Z23904
D14S0312i	AB142677.1	D1S0875i	AB142800.1	D2S335	Z23956
D14S0313i	AB145725.1	D1S0876i	AB142801.1	D2S336	Z23957
D14S0314i	AB145755.1	D1S0877i	AB142802.1	D2S337	Z23959
D14S0315i	AB145756.1	D1S0878i	AB142803.1	D2S338	Z23971
D2S339	Z23972	D5S0820i	AB146502.1	D8S0619i	AB146646.1
D2S340	Z23978	D5S0821i	AB146503.1	D8S0620i	AB146647.1
D2S341	Z23981	D5S0822i	AB146504.1	D8S0621i	AB146650.1
D2S342	Z23993	D5S0823i	AB146505.1	D8S0622i	AB146651.1
D2S343	Z24002	D5S0824i	AB146506.1	D8S0623i	AB129385.1

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D2S345	Z24064	D5S0825i	AB146507.1	D8S0624i	AB146652.1
D2S347	Z24078	D5S0826i	AB146508.1	D8S0625i	AB146654.1
D2S349	Z24097	D5S0827i	AB146509.1	D8S0626i	AB146655.1
D2S350	Z24113	D5S0828i	AB146511.1	D8S0627i	AB146658.1
D2S352	Z24167	D5S0829i	AB146512.1	D8S0628i	AB146659.1
D2S353	Z24168	D5S0830i	AB146513.1	D8S0629i	AB146660.1
D2S358	Z24186	D5S0831i	AB146514.1	D8S0630i	AB146664.1
D2S360	Z24210	D5S0833i	AB147113.1	D8S0631i	AB146665.1
D2S363	Z24231	D5S0834i	AB147114.1	D8S0632i	AB146666.1
D2S364	Z24235	D5S0835i	AB147115.1	D8S0634i	AB146668.1
D2S366	Z24237	D5S0836i	AB147116.1	D8S0636i	AB146670.1
D2S367	Z24240	D5S0837i	AB147117.1	D8S0639i	AB146673.1

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D2S368	Z24242	D5S0838i	AB147120.1	D8S0640i	AB146675.1
D2S369	Z24243	D5S0839i	AB147121.1	D8S0641i	AB146677.1
D2S370	Z24293	D5S0840i	AB129395.1	D8S0643i	AB146679.1
D2S372	Z24315	D5S0841i	AB147123.1	D8S0644i	AB147237.1
D2S373	Z24324	D5S0842i	AB147126.1	D8S0645i	AB147238.1
D2S374	Z24341	D5S0843i	AB147127.1	D8S0646i	AB147239.1
D2S375	Z24345	D5S0844i	AB147128.1	D8S0647i	AB147242.1
D2S376	Z24352	D5S0845i	AB147129.1	D8S0648i	AB147250.1
D2S377	Z24358	D5S0846i	AB147134.1	D8S0649i	AB147251.1
D2S380	Z24374	D5S0847i	AB147135.1	D8S0650i	AB147252.1
D2S381	Z24378	D5S0848i	AB147136.1	D8S0651i	AB147256.1
D2S383	Z24383	D5S0849i	AB147137.1	D8S0654i	AB147262.1

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D2S385	Z24410	D5S0850i	AB147138.1	D8S0656i	AB147264.1
D2S386	Z24411	D5S0851i	AB147141.1	D8S0657i	AB147267.1
D2S387	Z24434	D5S0852i	AB147142.1	D8S0658i	AB147268.1
D2S388	Z24435	D5S0853i	AB147143.1	D8S0659i	AB147269.1
D2S389	Z24438	D5S0854i	AB147144.1	D8S0661i	AB147276.1
D2S390	Z24448	D5S0855i	AB147145.1	D8S0663i	AB147278.1
D2S392	Z24580	D5S0856i	AB147146.1	D8S0664i	AB147285.1
D2S393	Z24587	D5S0857i	AB147147.1	D8S0665i	AB147290.1
D2S395	Z24605	D5S0858i	AB147148.1	D8S0666i	AB147294.1
D2S396	Z24608	D5S0859i	AB147151.1	D8S0667i	AB147295.1
D2S397	Z24612	D5S0860i	AB147152.1	D8S0669i	AB147307.1
D2S398	Z24628	D5S0861i	AB147153.1	D8S0670i	AB147308.1

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D2S399	Z24635	D5S0862i	AB147156.1	D8S0672i	AB129397.1
D2S400	Z24650	D5S0863i	AB147157.1	D8S1080	Z67762
D2S401	Z24664	D5S0864i	AB147158.1	D8S1082	Z67833
D2S426	G08129	D5S0865i	AB147159.1	D8S1083	Z67842
D2S428	G08132	D5S0866i	AB147160.1	D8S1098	G08652
D2S440	G08177	D5S0867i	AB147161.1	D8S1099	G08660
D2S442	G08194	D5S0868i	AB147162.1	D8S1102	G08670
D3S0001i	AB129522.1	D5S0869i	AB147165.1	D8S1105	G08679
D3S0002i	AB129820.1	D5S0870i	AB147166.1	D8S1106	G09378
D3S0003i	AB129833.1	D5S0871i	AB147167.1	D8S1107	G08688
D3S0004i	AB129837.1	D5S0872i	AB147168.1	D8S1108	G08696
D3S0005i	AB129855.1	D5S0873i	AB147169.1	D8S1113	G08724

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D3S0006i	AB129041.1	D5S0874i	AB147170.1	D8S1115	G08647
D3S0007i	AB130070.1	D5S0875i	AB147177.1	D8S1116	G08649
D3S0008i	AB130072.1	D5S0876i	AB147182.1	D8S1117	G08651
D3S0009i	AB130073.1	D5S0877i	AB147183.1	D8S1121	G08653
D3S0010i	AB130074.1	D5S0878i	AB147184.1	D8S1122	G08655
D3S0013i	AB130081.1	D5S0879i	AB147192.1	D8S1123	G08657
D3S0014i	AB130082.1	D5S0880i	AB147199.1	D8S1125	G08665
D3S0015i	AB130085.1	D5S0881i	AB147200.1	D8S1134	G08689
D3S0016i	AB130086.1	D5S0882i	AB147209.1	D8S1140	G08699
D3S0017i	AB130087.1	D5S0883i	AB147210.1	D8S1142	G08700
D3S0018i	AB130088.1	D5S0885i	AB147219.1	D8S1145	G08707
D3S0019i	AB130090.1	D5S0886i	AB147227.1	D8S1177	Z52296



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D3S0020i	AB130091.1	D5S1440	Z67851	D8S1178	Z51090
D3S0021i	AB130092.1	D5S1456	G08427	D8S1694	Z50890
D3S0022i	AB130093.1	D5S1457	G08431	D8S1695	Z52044
D3S0023i	AB130095.1	D5S1458	G08430	D8S1696	Z52054
D3S0024i	AB130098.1	D5S1459	G08434	D8S1697	Z51008
D3S0025i	AB130105.1	D5S1461	G08440	D8S1698	Z52086
D3S0026i	AB130112.1	D5S1462	G08448	D8S1699	Z52093
D3S0027i	AB130113.1	D5S1464	G08451	D8S1701	Z52122
D3S0028i	AB130114.1	D5S1465	G08452	D8S1702	Z51014
D3S0029i	AB130117.1	D5S1466	G08454	D8S1703	Z52126
D3S0030i	AB130121.1	D5S1468	G09644	D8S1704	Z52134
D3S0031i	AB130128.1	D5S1470	G08475	D8S1705	Z52142

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D3S0033i	AB136351.1	D5S1474	G08485	D8S1706	Z52159
D3S0034i	AB136352.1	D5S1475	G08488	D8S1707	Z51022
D3S0035i	AB136353.1	D5S1492	G08442	D8S1708	Z52279
D3S0036i	AB136354.1	D5S1501	G09661	D8S1709	Z52349
D3S0037i	AB136355.1	D5S1506	G09967	D8S1710	Z52359
D3S0038i	AB136356.1	D5S1507	G08467	D8S1712	Z52384
D3S0039i	AB136357.1	D5S1508	G08471	D8S1714	Z52397
D3S0040i	AB136359.1	D5S1509	G09916	D8S1715	Z52406
D3S0041i	AB136360.1	D5S1953	Z52053	D8S1716	Z51049
D3S0042i	AB136363.1	D5S1954	Z52095	D8S1718	Z52431
D3S0043i	AB136364.1	D5S1956	Z52109	D8S1720	Z52450
D3S0044i	AB136365.1	D5S1957	Z52154	D8S1721	Z52523

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D3S0045i	AB136366.1	D5S1958	Z52162	D8S1722	Z52561
D3S0046i	AB136367.1	D5S1959	Z52166	D8S1723	Z52563
D3S0047i	AB136368.1	D5S1961	Z52214	D8S1724	Z52607
D3S0048i	AB136369.1	D5S1962	Z52248	D8S1727	Z52668
D3S0049i	AB136370.1	D5S1963	Z52256	D8S1728	Z51087
D3S0050i	AB136373.1	D5S1964	Z51030	D8S1731	Z52884
D3S0052i	AB136375.1	D5S1965	Z52278	D8S1732	Z52891
D3S0053i	AB136376.1	D5S1966	Z52290	D8S1733	Z51114
D3S0054i	AB136377.1	D5S1967	Z52318	D8S1735	Z51118
D3S0055i	AB136378.1	D5S1968	Z52319	D8S1738	Z52962
D3S0056i	AB136379.1	D5S1969	Z52336	D8S1740	Z53027
D3S0057i	AB136380.1	D5S1970	Z52377	D8S1741	Z53064

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D3S0058i	AB136382.1	D5S1971	Z52386	D8S1742	Z50904
D3S0059i	AB136383.1	D5S1973	Z52442	D8S1745	Z51134
D3S0060i	AB136384.1	D5S1974	Z52445	D8S1746	Z53102
D3S0061i	AB136385.1	D5S1975	Z52461	D8S1747	Z51136
D3S0062i	AB136386.1	D5S1979	Z52528	D8S1748	Z53108
D3S0063i	AB136387.1	D5S1981	Z52534	D8S1749	Z53113
D3S0064i	AB136388.1	D5S1982	Z52566	D8S1750	Z53177
D3S0065i	AB136390.1	D5S1983	Z52599	D8S1751	Z53216
D3S0067i	AB136393.1	D5S1984	Z52623	D8S1752	Z53233
D3S0068i	AB136394.1	D5S1986	Z52642	D8S1753	Z51153
D3S0069i	AB136395.1	D5S1987	Z52663	D8S1754	Z53268
D3S0070i	AB136396.1	D5S1989	Z52706	D8S1755	Z53300

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D3S0071i	AB136397.1	D5S1990	Z52715	D8S1756	Z53316
D3S0072i	AB136398.1	D5S1991	Z52751	D8S1757	Z51166
D3S0073i	AB136399.1	D5S1992	Z52779	D8S1759	Z53394
D3S0075i	AB136400.1	D5S1994	Z52786	D8S1760	Z53396
D3S0076i	AB136402.1	D5S1996	Z52815	D8S1762	Z53466
D3S0077i	AB136403.1	D5S1997	Z52851	D8S1763	Z53467
D3S0078i	AB136404.1	D5S1998	Z50902	D8S1764	Z51184
D3S0079i	AB136405.1	D5S2001	Z52949	D8S1767	Z53486
D3S0081i	AB136406.1	D5S2002	Z52958	D8S1770	Z51194
D3S0082i	AB136407.1	D5S2003	Z52980	D8S1771	Z53561
D3S0083i	AB136408.1	D5S2004	Z53010	D8S1772	Z53572
D3S0084i	AB136409.1	D5S2006	Z53048	D8S1773	Z53580

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D3S0086i	AB136411.1	D5S2007	Z53063	D8S1774	Z53583
D3S0087i	AB136413.1	D5S2008	Z53075	D8S1777	Z53617
D3S0089i	AB136415.1	D5S2011	Z53138	D8S1778	Z53631
D3S0091i	AB136417.1	D5S2015	Z53189	D8S1779	Z51207
D3S0092i	AB136418.1	D5S2016	Z51157	D8S1780	Z53697
D3S0093i	AB136419.1	D5S2017	Z53274	D8S1782	Z53728
D3S0094i	AB136420.1	D5S2018	Z53284	D8S1784	Z53734
D3S0095i	AB136422.1	D5S2019	Z53312	D8S1785	Z53737
D3S0096i	AB136424.1	D5S2020	Z53324	D8S1786	Z53742
D3S0097i	AB136425.1	D5S2021	Z53326	D8S1788	Z53824
D3S0098i	AB136426.1	D5S2022	Z53330	D8S1789	Z51232
D3S0099i	AB136427.1	D5S2023	Z53351	D8S1790	Z53860

Hypertension 77354 Supplement

D3S0100i	AB136428.1	D5S2025	Z53415	D8S1793	Z54002
D3S0101i	AB136429.1	D5S2026	Z53430	D8S1794	Z51251
D3S0102i	AB136430.1	D5S2028	Z53463	D8S1795	Z51252
D3S0103i	AB136432.1	D5S2029	Z53470	D8S1796	Z54061
D3S0104i	AB136433.1	D5S2030	Z53471	D8S1797	Z54066
D3S0105i	AB136435.1	D5S2031	Z53491	D8S1799	Z51257
D3S0106i	AB136437.1	D5S2032	Z53536	D8S1801	Z51267
D3S0107i	AB136439.1	D5S2033	Z53546	D8S1802	Z51307
D3S0110i	AB136442.1	D5S2034	Z53550	D8S1804	Z51344
D3S0111i	AB136443.1	D5S2035	Z53555	D8S1805	Z51359
D3S0112i	AB136444.1	D5S2036	Z53573	D8S1806	Z50929
D3S0113i	AB136445.1	D5S2037	Z53593	D8S1808	Z51420

Hypertension 77354 Supplement

D3S0115i	AB136449.1	D5S2038	Z53624	D8S1809	Z51429
D3S0116i	AB136434.1	D5S2039	Z53643	D8S1810	Z51480
D3S0117i	AB136452.1	D5S2040	Z53646	D8S1811	Z51525
D3S0118i	AB136453.1	D5S2041	Z53652	D8S1813	Z51565
D3S0119i	AB136454.1	D5S2042	Z53658	D8S1814	Z51591
D3S0120i	AB136455.1	D5S2043	Z53674	D8S1815	Z51599
D3S0122i	AB136458.1	D5S2044	Z53679	D8S1816	Z50883
D3S0123i	AB136459.1	D5S2045	Z53701	D8S1817	Z51630
D3S0124i	AB136460.1	D5S2046	Z53705	D8S1818	Z50952
D3S0125i	AB136461.1	D5S2047	Z51220	D8S1819	Z51648
D3S0126i	AB136463.1	D5S2049	Z53758	D8S1820	Z51662
D3S0127i	AB136464.1	D5S2050	Z53818	D8S1821	Z51677



Hypertension 77354 Supplement

D3S0128i	AB136465.1	D5S2051	Z53833	D8S1823	Z51693
D3S0129i	AB136466.1	D5S2052	Z53847	D8S1824	Z51703
D3S0130i	AB136467.1	D5S2053	Z53848	D8S1825	Z51727
D3S0131i	AB136469.1	D5S2054	Z53850	D8S1826	Z51755
D3S0132i	AB136470.1	D5S2055	Z53851	D8S1829	Z50973
D3S0133i	AB136472.1	D5S2056	Z53856	D8S1830	Z51827
D3S0134i	AB136473.1	D5S2059	Z53948	D8S1832	Z51868
D3S0135i	AB136474.1	D5S2061	Z53973	D8S1833	Z51872
D3S0137i	AB136476.1	D5S2062	Z51246	D8S1834	Z51886
D3S0139i	AB136479.1	D5S2063	Z54021	D8S1836	Z51923
D3S0140i	AB136480.1	D5S2064	Z54035	D8S1839	Z51938
D3S0141i	AB136481.1	D5S2065	Z54068	D8S1840	Z51948

D3S0142i	AB136482.1	D5S2066	Z54071	D8S1841	Z51950
D3S0143i	AB136483.1	D5S2067	Z51263	D8S1842	Z51961
D3S0144i	AB136484.1	D5S2068	Z51278	D8S1843	Z51968
D3S0145i	AB136485.1	D5S2069	Z51311	D8S1844	Z51985
D3S0146i	AB136486.1	D5S2070	Z51314	D8S255	Z16435
D3S0147i	AB136487.1	D5S2071	Z51325	D8S256	Z16524
D3S0148i	AB136488.1	D5S2072	Z51347	D8S258	Z16578
D3S0150i	AB136492.1	D5S2073	Z51380	D8S259	Z16581
D3S0151i	AB136494.1	D5S2074	Z51383	D8S260	Z16597
D3S0152i	AB136495.1	D5S2075	Z51389	D8S261	Z16628
D3S0153i	AB136496.1	D5S2076	Z51409	D8S262	Z16637
D3S0154i	AB136497.1	D5S2077	Z51434	D8S263	Z16652

Hypertension 77354 Supplement

D3S0156i	AB136499.1	D5S2079	Z51471	D8S264	Z16659
D3S0157i	AB136502.1	D5S2080	Z51481	D8S265	Z16665
D3S0158i	AB136503.1	D5S2081	Z51492	D8S266	Z16681
D3S0159i	AB136504.1	D5S2083	Z51519	D8S267	Z23402
D3S0160i	AB136505.1	D5S2086	Z51620	D8S268	Z16694
D3S0161i	AB136506.1	D5S2087	Z51628	D8S269	Z16695
D3S0162i	AB136507.1	D5S2090	Z51668	D8S271	Z16751
D3S0163i	AB136508.1	D5S2091	Z51694	D8S274	Z16788
D3S0164i	AB136509.1	D5S2092	Z51696	D8S277	Z16851
D3S0165i	AB136512.1	D5S2093	Z51697	D8S278	Z16888
D3S0166i	AB136513.1	D5S2094	Z51718	D8S279	Z16897
D3S0168i	AB136519.1	D5S2095	Z51725	D8S281	Z16925

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D3S0169i	AB136520.1	D5S2096	Z50967	D8S283	Z17076
D3S0170i	AB136525.1	D5S2098	Z51764	D8S284	Z17108
D3S0172i	AB136527.1	D5S2099	Z51765	D8S285	Z17150
D3S0173i	AB136528.1	D5S2100	Z51821	D8S286	Z17195
D3S0175i	AB129178.1	D5S2101	Z51833	D8S298	Z17265
D3S0176i	AB137659.1	D5S2102	Z51840	D8S501	Z23429
D3S0178i	AB137665.1	D5S2103	Z51849	D8S502	Z23436
D3S0179i	AB137668.1	D5S2106	Z51897	D8S503	Z23470
D3S0180i	AB137673.1	D5S2107	Z51901	D8S504	Z23474
D3S0183i	AB137676.1	D5S2108	Z51911	D8S505	Z23478
D3S0184i	AB137677.1	D5S2110	Z51921	D8S506	Z23503
D3S0185i	AB137678.1	D5S2112	Z51939	D8S507	Z23528

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D3S0186i	AB137680.1	D5S2115	Z52009	D8S508	Z23532
D3S0187i	AB137681.1	D5S2117	Z52021	D8S509	Z23539
D3S0188i	AB137682.1	D5S2118	Z52022	D8S510	Z23541
D3S0189i	AB137683.1	D5S2119	Z52024	D8S514	Z23616
D3S0190i	AB137684.1	D5S2120	Z52028	D8S515	Z23632
D3S0191i	AB137686.1	D5S2121	Z52029	D8S516	Z23638
D3S0192i	AB137688.1	D5S2122	Z52031	D8S518	Z23706
D3S0193i	AB137689.1	D5S392	Z16447	D8S519	Z23713
D3S0194i	AB137690.1	D5S393	Z16468	D8S520	Z23725
D3S0195i	AB137691.1	D5S394	Z16492	D8S521	Z23333
D3S0196i	AB137692.1	D5S395	Z16504	D8S522	Z23764
D3S0197i	AB129183.1	D5S396	Z16512	D8S524	Z23793

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D3S0198i	AB137700.1	D5S398	Z16563	D8S526	Z23829
D3S0200i	AB138394.1	D5S399	Z16584	D8S527	Z23836
D3S0201i	AB139030.1	D5S400	Z16590	D8S530	Z23843
D3S0202i	AB139032.1	D5S401	Z16604	D8S531	Z23342
D3S0203i	AB139034.1	D5S402	Z16638	D8S532	Z23343
D3S0204i	AB139035.1	D5S403	Z16645	D8S533	Z23350
D3S0206i	AB139044.1	D5S404	Z16664	D8S536	Z23886
D3S0207i	AB139047.1	D5S405	Z16683	D8S537	Z23926
D3S0208i	AB139048.1	D5S406	Z16687	D8S539	Z23983
D3S0209i	AB139050.1	D5S407	Z16723	D8S542	Z24056
D3S0210i	AB139055.1	D5S408	Z16733	D8S544	Z24130
D3S0211i	AB139057.1	D5S409	Z16805	D8S545	Z24134

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D3S0213i	AB139062.1	D5S411	Z16831	D8S546	Z24153
D3S0214i	AB139063.1	D5S412	Z16852	D8S548	Z24217
D3S0215i	AB139065.1	D5S413	Z16865	D8S549	Z24238
D3S0216i	AB139066.1	D5S414	Z16886	D8S551	Z24272
D3S0217i	AB139067.1	D5S415	Z16901	D8S552	Z24368
D3S0218i	AB139068.1	D5S417	Z16918	D8S553	Z24405
D3S0219i	AB139071.1	D5S418	Z16929	D8S554	Z24445
D3S0220i	AB139072.1	D5S419	Z16943	D8S555	Z24446
D3S0222i	AB139075.1	D5S421	Z16951	D8S556	Z24563
D3S0223i	AB139077.1	D5S423	Z16980	D8S557	Z24585
D3S0224i	AB139081.1	D5S424	Z16982	D8S559	Z24603
D3S0225i	AB139085.1	D5S425	Z17027	D8S560	Z24630

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D3S0226i	AB139087.1	D5S426	Z17066	D8S561	Z24644
D3S0227i	AB139088.1	D5S427	Z17068	D8S565	G08713
D3S0228i	AB139090.1	D5S428	Z17072	D8S566	G08715
D3S0229i	AB139092.1	D5S429	Z17097	D8S569	G08692
D3S0230i	AB139094.1	D5S431	Z17145	D8S589	G08677
D3S0231i	AB139096.1	D5S432	Z17149	D8S592	G08703
D3S0232i	AB139097.1	D5S433	Z17196	D8S594	G08711
D3S0233i	AB139098.1	D5S434	Z17199	D8S601	Z23965
D3S0234i	AB139099.1	D5S436	Z17182	D9S0001i	AB129894.1
D3S0235i	AB139102.1	D5S457	Z50900	D9S0002i	AB129908.1
D3S0236i	AB139103.1	D5S458	Z23308	D9S0003i	AB129909.1
D3S0237i	AB139105.1	D5S459	Z50915	D9S0004i	AB129925.1



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D3S0238i	AB139107.1	D5S460	Z23324	D9S0005i	AB130630.1
D3S0239i	AB139108.1	D5S461	Z50936	D9S0006i	AB130634.1
D3S0240i	AB139109.1	D5S462	Z23356	D9S0007i	AB130641.1
D3S0241i	AB139110.1	D5S463	Z50976	D9S0008i	AB130651.1
D3S0242i	AB139111.1	D5S464	Z50977	D9S0009i	AB130653.1
D3S0243i	AB139112.1	D5S466	Z23376	D9S0010i	AB130656.1
D3S0244i	AB139114.1	D5S467	Z23386	D9S0011i	AB130657.1
D3S0245i	AB129215.1	D5S468	Z51005	D9S0013i	AB130659.1
D3S0246i	AB139116.1	D5S470	Z23396	D9S0015i	AB130664.1
D3S0247i	AB139119.1	D5S474	Z23415	D9S0016i	AB130666.1
D3S0248i	AB139120.1	D5S476	Z23430	D9S0017i	AB129055.1
D3S0249i	AB139121.1	D5S477	Z23431	D9S0018i	AB130669.1

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D3S0251i	AB139123.1	D5S478	Z23434	D9S0019i	AB130671.1
D3S0252i	AB139126.1	D5S479	Z23472	D9S0020i	AB130676.1
D3S0253i	AB139127.1	D5S484	Z23521	D9S0021i	AB130696.1
D3S0254i	AB139128.1	D5S486	Z23569	D9S0022i	AB130697.1
D3S0255i	AB139131.1	D5S487	Z23592	D9S0023i	AB130700.1
D3S0256i	AB139132.1	D5S489	Z23619	D9S0024i	AB130710.1
D3S0257i	AB139133.1	D5S493	Z51186	D9S0025i	AB131931.1
D3S0258i	AB139136.1	D5S495	Z23705	D9S0026i	AB133300.1
D3S0259i	AB139138.1	D5S496	Z23712	D9S0027i	AB133305.1
D3S0260i	AB139139.1	D5S500	Z23772	D9S0028i	AB133307.1
D3S0261i	AB139140.1	D5S501	Z23784	D9S0029i	AB133314.1
D3S0262i	AB139141.1	D5S502	Z23787	D9S0030i	AB133321.1

Hypertension 77354 Supplement

D3S0263i	AB139142.1	D5S504	Z23880	D9S0031i	AB133324.1
D3S0264i	AB139145.1	D5S505	Z23900	D9S0032i	AB133331.1
D3S0265i	AB139147.1	D5S616	Z23416	D9S0033i	AB133333.1
D3S0266i	AB139148.1	D5S618	Z23482	D9S0034i	AB133334.1
D3S0267i	AB139149.1	D5S620	Z23502	D9S0035i	AB133339.1
D3S0268i	AB139150.1	D5S621	Z23514	D9S0036i	AB133341.1
D3S0269i	AB139151.1	D5S622	Z23559	D9S0037i	AB133342.1
D3S0271i	AB139155.1	D5S623	Z23583	D9S0038i	AB133343.1
D3S0272i	AB139156.1	D5S624	Z23584	D9S0039i	AB133344.1
D3S0273i	AB139158.1	D5S625	Z23590	D9S0040i	AB133345.1
D3S0274i	AB139159.1	D5S626	Z23628	D9S0041i	AB133346.1
D3S0275i	AB139160.1	D5S627	Z23647	D9S0042i	AB133347.1

D3S0277i	AB139162.1	D5S628	Z23823	D9S0043i	AB133349.1
D3S0278i	AB139163.1	D5S629	Z23882	D9S0044i	AB133353.1
D3S0279i	AB139164.1	D5S630	Z23908	D9S0045i	AB133354.1
D3S0280i	AB139165.1	D5S631	Z23929	D9S0046i	AB133355.1
D3S0281i	AB139166.1	D5S633	Z23948	D9S0047i	AB133356.1
D3S0284i	AB139170.1	D5S634	Z23960	D9S0048i	AB133357.1
D3S0286i	AB139173.1	D5S635	Z23966	D9S0049i	AB133359.1
D3S0287i	AB139174.1	D5S636	Z23975	D9S0050i	AB133361.1
D3S0288i	AB139175.1	D5S638	Z24007	D9S0052i	AB133364.1
D3S0290i	AB139178.1	D5S639	Z24018	D9S0053i	AB133365.1
D3S0291i	AB139179.1	D5S640	Z24019	D9S0054i	AB133366.1
D3S0292i	AB139181.1	D5S641	Z24032	D9S0055i	AB133368.1

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D3S0293i	AB139182.1	D5S642	Z24050	D9S0056i	AB129113.1
D3S0294i	AB139183.1	D5S644	Z24063	D9S0057i	AB133370.1
D3S0295i	AB139184.1	D5S645	Z24077	D9S0058i	AB133371.1
D3S0296i	AB139185.1	D5S647	Z24110	D9S0059i	AB133372.1
D3S0297i	AB139187.1	D5S648	Z24124	D9S0060i	AB133374.1
D3S0299i	AB139189.1	D5S653	Z24252	D9S0061i	AB133375.1
D3S0300i	AB139190.1	D5S654	Z24257	D9S0062i	AB129114.1
D3S0303i	AB139193.1	D5S657	Z24268	D9S0063i	AB133376.1
D3S0305i	AB139196.1	D5S658	Z24271	D9S0064i	AB133377.1
D3S0306i	AB139198.1	D5S660	Z24278	D9S0065i	AB133379.1
D3S0307i	AB139199.1	D5S661	Z24298	D9S0066i	AB133380.1
D3S0308i	AB139200.1	D5S662	Z24301	D9S0067i	AB133384.1

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D3S0309i	AB139201.1	D5S664	Z24311	D9S0068i	AB133385.1
D3S0311i	AB139204.1	D5S665	Z24328	D9S0069i	AB133387.1
D3S0312i	AB139206.1	D5S667	Z24346	D9S0070i	AB133389.1
D3S0314i	AB139207.1	D5S671	Z24397	D9S0071i	AB133391.1
D3S0315i	AB139210.1	D5S672	Z24400	D9S0072i	AB133392.1
D3S0316i	AB139211.1	D5S674	Z24433	D9S0073i	AB133393.1
D3S0317i	AB139212.1	D5S676	Z24583	D9S0074i	AB133395.1
D3S0318i	AB139213.1	D5S677	Z24597	D9S0075i	AB133398.1
D3S0319i	AB139214.1	D5S678	Z24662	D9S0077i	AB133406.1
D3S0320i	AB139215.1	D5S804	G08464	D9S0078i	AB133407.1
D3S0321i	AB139216.1	D5S807	G08443	D9S0079i	AB133408.1
D3S0322i	AB139217.1	D5S816	G08438	D9S0080i	AB133410.1

Hypertension 77354 Supplement

D3S0324i	AB139219.1	D5S818	G08446	D9S0081i	AB133413.1
D3S0325i	AB139220.1	D5S819	G08459	D9S0082i	AB133414.1
D3S0326i	AB139223.1	D5S822	Z23694	D9S0083i	AB133416.1
D3S0327i	AB139224.1	D6S0002i	AB129549.1	D9S0084i	AB133417.1
D3S0328i	AB139225.1	D6S0004i	AB129551.1	D9S0085i	AB133418.1
D3S0330i	AB139227.1	D6S0005i	AB129552.1	D9S0086i	AB133419.1
D3S0331i	AB139228.1	D6S0006i	AB129554.1	D9S0088i	AB133421.1
D3S0332i	AB139231.1	D6S0009i	AB129504.1	D9S0089i	AB133424.1
D3S0333i	AB139232.1	D6S0010i	AB129856.1	D9S0090i	AB133426.1
D3S0334i	AB139234.1	D6S0011i	AB129857.1	D9S0091i	AB133427.1
D3S0335i	AB139236.1	D6S0012i	AB129861.1	D9S0092i	AB133428.1
D3S0336i	AB139237.1	D6S0013i	AB129864.1	D9S0093i	AB133429.1

D3S0338i	AB139239.1	D6S0014i	AB129866.1	D9S0095i	AB133431.1
D3S0339i	AB139240.1	D6S0015i	AB129867.1	D9S0096i	AB133432.1
D3S0341i	AB139242.1	D6S0016i	AB129872.1	D9S0097i	AB133433.1
D3S0343i	AB139244.1	D6S0017i	AB129876.1	D9S0098i	AB133434.1
D3S0344i	AB139247.1	D6S0018i	AB129877.1	D9S0099i	AB129115.1
D3S0345i	AB139248.1	D6S0019i	AB129878.1	D9S0100i	AB129506.1
D3S0346i	AB139249.1	D6S0021i	AB129884.1	D9S0101i	AB133435.1
D3S0347i	AB139250.1	D6S0023i	AB129888.1	D9S0102i	AB133437.1
D3S0348i	AB139251.1	D6S0024i	AB130170.1	D9S0103i	AB133438.1
D3S0349i	AB139252.1	D6S0026i	AB130194.1	D9S0104i	AB133441.1
D3S0350i	AB139253.1	D6S0027i	AB130195.1	D9S0105i	AB133444.1
D3S0351i	AB139254.1	D6S0028i	AB130198.1	D9S0106i	AB133445.1



D3S0352i	AB139255.1	D6S0029i	AB130199.1	D9S0107i	AB133449.1
D3S0355i	AB139258.1	D6S0030i	AB130201.1	D9S0108i	AB133454.1
D3S0356i	AB139259.1	D6S0031i	AB130205.1	D9S0109i	AB133455.1
D3S0357i	AB139260.1	D6S0032i	AB130206.1	D9S0110i	AB133458.1
D3S0358i	AB139263.1	D6S0033i	AB130207.1	D9S0111i	AB133459.1
D3S0359i	AB139264.1	D6S0034i	AB130208.1	D9S0112i	AB133460.1
D3S0360i	AB139265.1	D6S0035i	AB130209.1	D9S0113i	AB133461.1
D3S0361i	AB139267.1	D6S0036i	AB130212.1	D9S0114i	AB133463.1
D3S0362i	AB139268.1	D6S0037i	AB130213.1	D9S0115i	AB133464.1
D3S0363i	AB139270.1	D6S0038i	AB130214.1	D9S0116i	AB133467.1
D3S0364i	AB139271.1	D6S0039i	AB130215.1	D9S0117i	AB133468.1
D3S0365i	AB139272.1	D6S0040i	AB130216.1	D9S0118i	AB133469.1

D3S0366i	AB139273.1	D6S0041i	AB130217.1	D9S0119i	AB133470.1
D3S0367i	AB139274.1	D6S0042i	AB130218.1	D9S0120i	AB129116.1
D3S0369i	AB139277.1	D6S0043i	AB130221.1	D9S0121i	AB133471.1
D3S0370i	AB139278.1	D6S0045i	AB130223.1	D9S0122i	AB133475.1
D3S0371i	AB139279.1	D6S0046i	AB130225.1	D9S0124i	AB133479.1
D3S0372i	AB139282.1	D6S0047i	AB130227.1	D9S0125i	AB133481.1
D3S0374i	AB139284.1	D6S0048i	AB130232.1	D9S0126i	AB133489.1
D3S0375i	AB139285.1	D6S0049i	AB130233.1	D9S0127i	AB133504.1
D3S0376i	AB139290.1	D6S0050i	AB130237.1	D9S0128i	AB133511.1
D3S0377i	AB139291.1	D6S0051i	AB130239.1	D9S0129i	AB136746.1
D3S0378i	AB139293.1	D6S0052i	AB130241.1	D9S0130i	AB136747.1
D3S0379i	AB139294.1	D6S0053i	AB130242.1	D9S0131i	AB129173.1

D3S0380i	AB139295.1	D6S0054i	AB130245.1	D9S0132i	AB136748.1
D3S0381i	AB139296.1	D6S0055i	AB130247.1	D9S0133i	AB136749.1
D3S0382i	AB139297.1	D6S0056i	AB130250.1	D9S0134i	AB136750.1
D3S0384i	AB129216.1	D6S0057i	AB130251.1	D9S0135i	AB136751.1
D3S0385i	AB139301.1	D6S0060i	AB130229.1	D9S0136i	AB137063.1
D3S0386i	AB139302.1	D6S0062i	AB130259.1	D9S0137i	AB137066.1
D3S0387i	AB139303.1	D6S0063i	AB130261.1	D9S0138i	AB137067.1
D3S0388i	AB139304.1	D6S0064i	AB130264.1	D9S0139i	AB129002.1
D3S0389i	AB139307.1	D6S0065i	AB130266.1	D9S0140i	AB137076.1
D3S0391i	AB139309.1	D6S0067i	AB130268.1	D9S0141i	AB137082.1
D3S0392i	AB139310.1	D6S0068i	AB130269.1	D9S0142i	AB137084.1
D3S0394i	AB139314.1	D6S0069i	AB130270.1	D9S0143i	AB137085.1

D3S0395i	AB139315.1	D6S0070i	AB130271.1	D9S0144i	AB137087.1
D3S0396i	AB139316.1	D6S0071i	AB130274.1	D9S0145i	AB137088.1
D3S0397i	AB139318.1	D6S0072i	AB130275.1	D9S0146i	AB137089.1
D3S0398i	AB139319.1	D6S0073i	AB130278.1	D9S0147i	AB137090.1
D3S0399i	AB139320.1	D6S0074i	AB130279.1	D9S0148i	AB137091.1
D3S0401i	AB139322.1	D6S0075i	AB130281.1	D9S0149i	AB137092.1
D3S0402i	AB139323.1	D6S0076i	AB130283.1	D9S0150i	AB137094.1
D3S0405i	AB139327.1	D6S0077i	AB130285.1	D9S0151i	AB137095.1
D3S0406i	AB139329.1	D6S0078i	AB130287.1	D9S0153i	AB137097.1
D3S0407i	AB139330.1	D6S0079i	AB129042.1	D9S0154i	AB137099.1
D3S0408i	AB139331.1	D6S0081i	AB130289.1	D9S0155i	AB137100.1
D3S0409i	AB139332.1	D6S0082i	AB130290.1	D9S0156i	AB137101.1

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D3S0413i	AB139336.1	D6S0086i	AB130295.1	D9S0160i	AB128988.1
D3S0414i	AB139337.1	D6S0088i	AB130302.1	D9S0161i	AB137108.1
D3S0415i	AB139338.1	D6S0089i	AB130303.1	D9S0162i	AB137109.1
D3S0416i	AB139339.1	D6S0090i	AB130304.1	D9S0163i	AB137111.1
D3S0417i	AB139341.1	D6S0091i	AB130305.1	D9S0165i	AB137113.1
D3S0418i	AB139342.1	D6S0092i	AB130307.1	D9S0166i	AB137114.1
D3S0419i	AB139343.1	D6S0093i	AB130309.1	D9S0167i	AB137115.1
D3S0421i	AB139345.1	D6S0094i	AB129043.1	D9S0168i	AB137116.1
D3S0422i	AB139346.1	D6S0095i	AB130310.1	D9S0169i	AB137117.1

D3S0423i	AB129217.1	D6S0096i	AB130312.1	D9S0170i	AB137118.1
D3S0424i	AB139349.1	D6S0097i	AB130313.1	D9S0171i	AB137120.1
D3S0425i	AB139350.1	D6S0098i	AB130316.1	D9S0172i	AB137121.1
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D3S0429i	AB139356.1	D6S0103i	AB130323.1	D9S0177i	AB137128.1
D3S0430i	AB139358.1	D6S0104i	AB130326.1	D9S0178i	AB137133.1
D3S0432i	AB139360.1	D6S0105i	AB130328.1	D9S0179i	AB137138.1
D3S0433i	AB139361.1	D6S0106i	AB130329.1	D9S0180i	AB137884.1
D3S0434i	AB139362.1	D6S0107i	AB130332.1	D9S0181i	AB137885.1
D3S0435i	AB139363.1	D6S0108i	AB130333.1	D9S0182i	AB137886.1

D3S0436i	AB139364.1	D6S0109i	AB130334.1	D9S0183i	AB137887.1
D3S0437i	AB139365.1	D6S0110i	AB130335.1	D9S0184i	AB137888.1
D3S0438i	AB139367.1	D6S0111i	AB130336.1	D9S0185i	AB137890.1
D3S0439i	AB139368.1	D6S0113i	AB130339.1	D9S0186i	AB137892.1
D3S0440i	AB139370.1	D6S0114i	AB130341.1	D9S0187i	AB137894.1
D3S0441i	AB139371.1	D6S0115i	AB130342.1	D9S0188i	AB137895.1
D3S0442i	AB139372.1	D6S0116i	AB130343.1	D9S0189i	AB137896.1
D3S0443i	AB139373.1	D6S0117i	AB130347.1	D9S0190i	AB137897.1
D3S0444i	AB139374.1	D6S0118i	AB130352.1	D9S0192i	AB137899.1
D3S0445i	AB139375.1	D6S0119i	AB130358.1	D9S0193i	AB137900.1
D3S0446i	AB139376.1	D6S0120i	AB130367.1	D9S0195i	AB137903.1
D3S0447i	AB139379.1	D6S0121i	AB130368.1	D9S0196i	AB137905.1

D3S0448i	AB139380.1	D6S0122i	AB130745.1	D9S0197i	AB137906.1
D3S0449i	AB139381.1	D6S0123i	AB130772.1	D9S0198i	AB137907.1
D3S0452i	AB139387.1	D6S0124i	AB130782.1	D9S0199i	AB137908.1
D3S0454i	AB139390.1	D6S0125i	AB131678.1	D9S0200i	AB137910.1
D3S0455i	AB139391.1	D6S0126i	AB131679.1	D9S0201i	AB137913.1
D3S0458i	AB139394.1	D6S0127i	AB131680.1	D9S0202i	AB137914.1
D3S0459i	AB139395.1	D6S0128i	AB131683.1	D9S0203i	AB137916.1
D3S0461i	AB139397.1	D6S0129i	AB131684.1	D9S0204i	AB137917.1
D3S0463i	AB139442.1	D6S0130i	AB131685.1	D9S0205i	AB129188.1
D3S0464i	AB139443.1	D6S0131i	AB131686.1	D9S0206i	AB137921.1
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D3S0469i	AB139449.1	D6S0135i	AB131691.1	D9S0210i	AB139400.1
D3S0470i	AB139450.1	D6S0136i	AB131692.1	D9S0211i	AB139401.1
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D3S0472i	AB139452.1	D6S0138i	AB131694.1	D9S0213i	AB139405.1
D3S0473i	AB139453.1	D6S0139i	AB131695.1	D9S0214i	AB139409.1
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D3S0476i	AB139457.1	D6S0142i	AB131700.1	D9S0217i	AB139418.1
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D3S0480i	AB139461.1	D6S0146i	AB131706.1	D9S0221i	AB140323.1
D3S0481i	AB139462.1	D6S0147i	AB131707.1	D9S0222i	AB140324.1
D3S0482i	AB139463.1	D6S0148i	AB129073.1	D9S0224i	AB140326.1
D3S0483i	AB139465.1	D6S0149i	AB131708.1	D9S0225i	AB140327.1
D3S0484i	AB139466.1	D6S0150i	AB131709.1	D9S0226i	AB140329.1
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D3S0486i	AB139469.1	D6S0152i	AB131713.1	D9S0228i	AB140331.1
D3S0487i	AB139470.1	D6S0153i	AB131717.1	D9S0229i	AB140332.1
D3S0488i	AB139471.1	D6S0154i	AB131718.1	D9S0231i	AB140334.1
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D3S0494i	AB139477.1	D6S0162i	AB131731.1	D9S0238i	AB140342.1
D3S0495i	AB139479.1	D6S0163i	AB131732.1	D9S0239i	AB140343.1
D3S0496i	AB139480.1	D6S0164i	AB129075.1	D9S0240i	AB140345.1
D3S0497i	AB139481.1	D6S0165i	AB131733.1	D9S0243i	AB140348.1
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D3S0716i	AB140040.1	D6S0375i	AB132030.1	D9S0461i	AB129496.1

D3S0717i	AB140042.1	D6S0376i	AB132031.1	D9S0463i	AB142575.1
D3S0718i	AB140048.1	D6S0379i	AB132035.1	D9S0464i	AB142576.1
D3S0719i	AB140049.1	D6S0381i	AB132037.1	D9S0466i	AB142578.1
D3S0720i	AB140052.1	D6S0382i	AB132040.1	D9S0467i	AB142579.1
D3S0721i	AB140057.1	D6S0383i	AB132041.1	D9S0468i	AB142580.1
D3S0722i	AB140058.1	D6S0384i	AB132042.1	D9S0469i	AB142581.1
D3S0723i	AB140059.1	D6S0385i	AB132044.1	D9S0470i	AB142553.1
D3S0724i	AB140062.1	D6S0386i	AB132045.1	D9S0471i	AB142582.1
D3S0725i	AB140063.1	D6S0387i	AB132046.1	D9S0472i	AB142583.1
D3S0726i	AB140066.1	D6S0388i	AB132047.1	D9S0473i	AB142584.1
D3S0727i	AB140067.1	D6S0389i	AB132048.1	D9S0474i	AB142585.1
D3S0728i	AB140068.1	D6S0390i	AB132050.1	D9S0475i	AB142586.1

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D3S0729i	AB129229.1	D6S0391i	AB132051.1	D9S0476i	AB142587.1
D3S0730i	AB140069.1	D6S0392i	AB132052.1	D9S0477i	AB142588.1
D3S0731i	AB140070.1	D6S0393i	AB132053.1	D9S0478i	AB142589.1
D3S0732i	AB140074.1	D6S0394i	AB132054.1	D9S0479i	AB142590.1
D3S0733i	AB140075.1	D6S0395i	AB132055.1	D9S0480i	AB142591.1
D3S0734i	AB140076.1	D6S0396i	AB132058.1	D9S0481i	AB142592.1
D3S0735i	AB140077.1	D6S0397i	AB132060.1	D9S0482i	AB142593.1
D3S0736i	AB141065.1	D6S0398i	AB132061.1	D9S0483i	AB142594.1
D3S0737i	AB141069.1	D6S0399i	AB132062.1	D9S0484i	AB142595.1
D3S0738i	AB129248.1	D6S0400i	AB132068.1	D9S0485i	AB142596.1
D3S0739i	AB141076.1	D6S0401i	AB132069.1	D9S0486i	AB142597.1
D3S0740i	AB141085.1	D6S0402i	AB132074.1	D9S0487i	AB142598.1

D3S0741i	AB141090.1	D6S0403i	AB132076.1	D9S0488i	AB142599.1
D3S0742i	AB141091.1	D6S0405i	AB132079.1	D9S0489i	AB142600.1
D3S0743i	AB141092.1	D6S0406i	AB132080.1	D9S0490i	AB142601.1
D3S0744i	AB141093.1	D6S0407i	AB132081.1	D9S0491i	AB142602.1
D3S0745i	AB141094.1	D6S0408i	AB132082.1	D9S0492i	AB142603.1
D3S0747i	AB141098.1	D6S0409i	AB132089.1	D9S0493i	AB142604.1
D3S0749i	AB141100.1	D6S0410i	AB132090.1	D9S0494i	AB142605.1
D3S0752i	AB141103.1	D6S0411i	AB132091.1	D9S0495i	AB142606.1
D3S0754i	AB141105.1	D6S0412i	AB132092.1	D9S0496i	AB142607.1
D3S0755i	AB141106.1	D6S0413i	AB132093.1	D9S0497i	AB142608.1
D3S0756i	AB141107.1	D6S0414i	AB132094.1	D9S0498i	AB142609.1
D3S0758i	AB141109.1	D6S0415i	AB132096.1	D9S0499i	AB142610.1

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D3S0759i	AB141110.1	D6S0416i	AB132097.1	D9S0500i	AB142611.1
D3S0760i	AB141112.1	D6S0417i	AB129084.1	D9S0501i	AB142612.1
D3S0762i	AB141114.1	D6S0418i	AB132100.1	D9S0502i	AB142613.1
D3S0763i	AB141116.1	D6S0419i	AB132101.1	D9S0503i	AB142614.1
D3S0764i	AB141117.1	D6S0420i	AB132102.1	D9S0504i	AB142615.1
D3S0765i	AB141118.1	D6S0421i	AB132103.1	D9S0505i	AB142617.1
D3S0766i	AB141119.1	D6S0422i	AB132105.1	D9S0506i	AB142618.1
D3S0767i	AB141121.1	D6S0423i	AB132106.1	D9S0507i	AB142619.1
D3S0768i	AB141122.1	D6S0424i	AB132107.1	D9S0508i	AB142620.1
D3S0769i	AB141123.1	D6S0425i	AB132108.1	D9S0509i	AB142621.1
D3S0770i	AB141124.1	D6S0426i	AB132109.1	D9S0510i	AB142622.1
D3S0773i	AB141128.1	D6S0427i	AB132110.1	D9S0511i	AB142623.1

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D3S0774i	AB141129.1	D6S0428i	AB132113.1	D9S0512i	AB142624.1
D3S0775i	AB141130.1	D6S0429i	AB132116.1	D9S0513i	AB142625.1
D3S0776i	AB141131.1	D6S0430i	AB132117.1	D9S0514i	AB142626.1
D3S0777i	AB141132.1	D6S0431i	AB132118.1	D9S0515i	AB142627.1
D3S0778i	AB141133.1	D6S0432i	AB132120.1	D9S0516i	AB142628.1
D3S0780i	AB141135.1	D6S0433i	AB132122.1	D9S0517i	AB142629.1
D3S0781i	AB141136.1	D6S0434i	AB132123.1	D9S0518i	AB142630.1
D3S0782i	AB141137.1	D6S0435i	AB132127.1	D9S0519i	AB142631.1
D3S0784i	AB129494.1	D6S0436i	AB132128.1	D9S0520i	AB142633.1
D3S0785i	AB141140.1	D6S0437i	AB132129.1	D9S0521i	AB142634.1
D3S0786i	AB141141.1	D6S0438i	AB132131.1	D9S0522i	AB142635.1
D3S0788i	AB141143.1	D6S0439i	AB132132.1	D9S0523i	AB142636.1



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D3S0790i	AB141145.1	D6S0440i	AB132133.1	D9S0524i	AB142637.1
D3S0791i	AB141146.1	D6S0441i	AB132135.1	D9S0525i	AB142638.1
D3S0792i	AB141147.1	D6S0442i	AB132136.1	D9S0526i	AB142639.1
D3S0793i	AB141148.1	D6S0443i	AB132137.1	D9S0527i	AB142640.1
D3S0794i	AB141149.1	D6S0444i	AB132138.1	D9S0528i	AB142641.1
D3S0795i	AB141150.1	D6S0445i	AB132139.1	D9S0529i	AB142642.1
D3S0796i	AB141152.1	D6S0446i	AB132145.1	D9S0530i	AB142643.1
D3S0797i	AB141153.1	D6S0447i	AB132146.1	D9S0531i	AB142644.1
D3S0798i	AB141154.1	D6S0448i	AB132147.1	D9S0532i	AB142645.1
D3S0799i	AB141155.1	D6S0449i	AB132149.1	D9S0533i	AB129498.1
D3S0800i	AB141156.1	D6S0450i	AB132150.1	D9S0534i	AB142646.1
D3S0801i	AB141157.1	D6S0451i	AB132151.1	D9S0535i	AB142647.1

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D3S0802i	AB141159.1	D6S0452i	AB132153.1	D9S0536i	AB129499.1
D3S0804i	AB141161.1	D6S0453i	AB132154.1	D9S0537i	AB142648.1
D3S0805i	AB141162.1	D6S0454i	AB132155.1	D9S0539i	AB142650.1
D3S0806i	AB129251.1	D6S0455i	AB132156.1	D9S0540i	AB142651.1
D3S0807i	AB141163.1	D6S0456i	AB132157.1	D9S0541i	AB142652.1
D3S0809i	AB141165.1	D6S0457i	AB132158.1	D9S0542i	AB142654.1
D3S0810i	AB141166.1	D6S0458i	AB132159.1	D9S0543i	AB142655.1
D3S0812i	AB141407.1	D6S0459i	AB132161.1	D9S0544i	AB142658.1
D3S0813i	AB141411.1	D6S0460i	AB132164.1	D9S0545i	AB142659.1
D3S0814i	AB141412.1	D6S0461i	AB132165.1	D9S0546i	AB142660.1
D3S0815i	AB141413.1	D6S0463i	AB129085.1	D9S0547i	AB142661.1
D3S0816i	AB141414.1	D6S0465i	AB132169.1	D9S0548i	AB142662.1

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D3S0817i	AB141417.1	D6S0466i	AB132170.1	D9S0549i	AB142664.1
D3S0818i	AB141422.1	D6S0467i	AB132171.1	D9S0550i	AB142665.1
D3S0820i	AB141431.1	D6S0468i	AB132173.1	D9S0551i	AB142667.1
D3S0821i	AB141432.1	D6S0469i	AB132174.1	D9S0552i	AB142669.1
D3S0822i	AB143793.1	D6S0470i	AB132179.1	D9S0553i	AB142671.1
D3S0823i	AB143802.1	D6S0471i	AB129086.1	D9S0554i	AB142672.1
D3S0824i	AB143808.1	D6S0472i	AB132181.1	D9S0555i	AB142673.1
D3S0825i	AB143814.1	D6S0473i	AB132183.1	D9S0556i	AB142674.1
D3S0827i	AB143817.1	D6S0474i	AB132184.1	D9S0558i	AB144281.1
D3S0828i	AB143818.1	D6S0475i	AB132185.1	D9S0559i	AB144291.1
D3S0829i	AB143819.1	D6S0476i	AB132187.1	D9S0560i	AB145513.1
D3S0830i	AB143820.1	D6S0478i	AB132191.1	D9S0561i	AB145514.1

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D3S0831i	AB143822.1	D6S0479i	AB132193.1	D9S0563i	AB145521.1
D3S0832i	AB143823.1	D6S0480i	AB132194.1	D9S0564i	AB145522.1
D3S0833i	AB143824.1	D6S0481i	AB132197.1	D9S0565i	AB145523.1
D3S0834i	AB143825.1	D6S0482i	AB132198.1	D9S0566i	AB145525.1
D3S0835i	AB143826.1	D6S0483i	AB132200.1	D9S0567i	AB145526.1
D3S0836i	AB143827.1	D6S0484i	AB132201.1	D9S0569i	AB145531.1
D3S0837i	AB143828.1	D6S0485i	AB132204.1	D9S0570i	AB145533.1
D3S0838i	AB129322.1	D6S0486i	AB132205.1	D9S0571i	AB145536.1
D3S0839i	AB143829.1	D6S0487i	AB132206.1	D9S0572i	AB145540.1
D3S0840i	AB143830.1	D6S0488i	AB132211.1	D9S0573i	AB145544.1
D3S0841i	AB143831.1	D6S0489i	AB132213.1	D9S0574i	AB145545.1
D3S0842i	AB143833.1	D6S0490i	AB132215.1	D9S0575i	AB145546.1

D3S0843i	AB143834.1	D6S0491i	AB132216.1	D9S0576i	AB145547.1
D3S0844i	AB143835.1	D6S0492i	AB132217.1	D9S0577i	AB145548.1
D3S0845i	AB143836.1	D6S0493i	AB132219.1	D9S0578i	AB145549.1
D3S0846i	AB143837.1	D6S0495i	AB132226.1	D9S0579i	AB145550.1
D3S0847i	AB143838.1	D6S0496i	AB132228.1	D9S0581i	AB145552.1
D3S0848i	AB143839.1	D6S0497i	AB132233.1	D9S0582i	AB145553.1
D3S0849i	AB143840.1	D6S0498i	AB132236.1	D9S0583i	AB129363.1
D3S0850i	AB143841.1	D6S0499i	AB132238.1	D9S0584i	AB145554.1
D3S0851i	AB143843.1	D6S0500i	AB132239.1	D9S0585i	AB145555.1
D3S0852i	AB143844.1	D6S0501i	AB132241.1	D9S0586i	AB145556.1
D3S0853i	AB143845.1	D6S0502i	AB132242.1	D9S0587i	AB145557.1
D3S0854i	AB143846.1	D6S0503i	AB132243.1	D9S0588i	AB145558.1

D3S0855i	AB143847.1	D6S0504i	AB132245.1	D9S0589i	AB145559.1
D3S0856i	AB143848.1	D6S0505i	AB132246.1	D9S0590i	AB145561.1
D3S0857i	AB143849.1	D6S0506i	AB132247.1	D9S0591i	AB145563.1
D3S0858i	AB143850.1	D6S0507i	AB132250.1	D9S0592i	AB145564.1
D3S0859i	AB143851.1	D6S0508i	AB132251.1	D9S0593i	AB145565.1
D3S0860i	AB143852.1	D6S0509i	AB132253.1	D9S0594i	AB145566.1
D3S0861i	AB143853.1	D6S0510i	AB132254.1	D9S0595i	AB145567.1
D3S0863i	AB143856.1	D6S0511i	AB132256.1	D9S0596i	AB145568.1
D3S0864i	AB143858.1	D6S0512i	AB132257.1	D9S0597i	AB145569.1
D3S0865i	AB143859.1	D6S0513i	AB132259.1	D9S0598i	AB145571.1
D3S0866i	AB143860.1	D6S0515i	AB132266.1	D9S0599i	AB145572.1
D3S0867i	AB143861.1	D6S0516i	AB132267.1	D9S0600i	AB145573.1

D3S0868i	AB143863.1	D6S0517i	AB132272.1	D9S0601i	AB145574.1
D3S0869i	AB143864.1	D6S0518i	AB132273.1	D9S0602i	AB145575.1
D3S0870i	AB143865.1	D6S0519i	AB132275.1	D9S0603i	AB145576.1
D3S0871i	AB143866.1	D6S0520i	AB132276.1	D9S0604i	AB145577.1
D3S0872i	AB143867.1	D6S0521i	AB132277.1	D9S0605i	AB145578.1
D3S0874i	AB143869.1	D6S0522i	AB132278.1	D9S0606i	AB145579.1
D3S0875i	AB143870.1	D6S0523i	AB132279.1	D9S0607i	AB145580.1
D3S0876i	AB143871.1	D6S0524i	AB132280.1	D9S0608i	AB145582.1
D3S0877i	AB143872.1	D6S0525i	AB132282.1	D9S0609i	AB145583.1
D3S0878i	AB143873.1	D6S0526i	AB132283.1	D9S0610i	AB145584.1
D3S0879i	AB143874.1	D6S0527i	AB132285.1	D9S0611i	AB145585.1
D3S0880i	AB143875.1	D6S0528i	AB132286.1	D9S0613i	AB145588.1

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D3S0882i	AB143877.1	D6S0529i	AB132287.1	D9S0615i	AB145593.1
D3S0883i	AB143880.1	D6S0530i	AB132288.1	D9S0616i	AB145594.1
D3S0884i	AB143881.1	D6S0532i	AB132292.1	D9S0617i	AB145597.1
D3S0885i	AB143883.1	D6S0533i	AB132294.1	D9S0618i	AB145598.1
D3S0886i	AB143884.1	D6S0534i	AB132295.1	D9S0619i	AB145599.1
D3S0887i	AB143885.1	D6S0535i	AB132297.1	D9S0621i	AB145602.1
D3S0888i	AB143886.1	D6S0536i	AB132298.1	D9S0622i	AB145604.1
D3S0889i	AB143887.1	D6S0537i	AB132301.1	D9S0623i	AB129364.1
D3S0890i	AB143888.1	D6S0538i	AB132304.1	D9S0624i	AB145605.1
D3S0891i	AB143889.1	D6S0539i	AB132305.1	D9S0625i	AB145606.1
D3S0892i	AB143890.1	D6S0541i	AB132307.1	D9S0626i	AB145607.1
D3S0893i	AB143891.1	D6S0542i	AB132308.1	D9S0627i	AB145608.1



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D3S0894i	AB143892.1	D6S0543i	AB132309.1	D9S0628i	AB145609.1
D3S0896i	AB143895.1	D6S0544i	AB132312.1	D9S0629i	AB145612.1
D3S0897i	AB143896.1	D6S0545i	AB132313.1	D9S0630i	AB145613.1
D3S0898i	AB143897.1	D6S0546i	AB132314.1	D9S0631i	AB129507.1
D3S0899i	AB143898.1	D6S0547i	AB132321.1	D9S0632i	AB146039.1
D3S0902i	AB143901.1	D6S0548i	AB132322.1	D9S0633i	AB129384.1
D3S0903i	AB143902.1	D6S0549i	AB132323.1	D9S0634i	AB129485.1
D3S0904i	AB143903.1	D6S0550i	AB129088.1	D9S0635i	AB146648.1
D3S0905i	AB143904.1	D6S0551i	AB132325.1	D9S0636i	AB146656.1
D3S0906i	AB143905.1	D6S0552i	AB132326.1	D9S0637i	AB146657.1
D3S0907i	AB143906.1	D6S0553i	AB132327.1	D9S0638i	AB146662.1
D3S0909i	AB143908.1	D6S0554i	AB132328.1	D9S0639i	AB146676.1

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D3S0910i	AB143909.1	D6S0555i	AB132331.1	D9S0640i	AB146680.1
D3S0911i	AB143910.1	D6S0556i	AB132332.1	D9S0641i	AB146999.1
D3S0912i	AB143911.1	D6S0557i	AB132334.1	D9S0642i	AB147271.1
D3S0913i	AB143912.1	D6S0558i	AB132335.1	D9S0643i	AB147272.1
D3S0915i	AB143914.1	D6S0559i	AB132340.1	D9S0644i	AB147273.1
D3S0916i	AB143915.1	D6S0560i	AB132341.1	D9S0645i	AB147279.1
D3S0917i	AB143916.1	D6S0561i	AB132342.1	D9S0646i	AB147280.1
D3S0918i	AB143917.1	D6S0562i	AB132343.1	D9S0647i	AB147286.1
D3S0919i	AB143918.1	D6S0563i	AB132344.1	D9S0650i	AB147296.1
D3S0920i	AB143919.1	D6S0564i	AB132347.1	D9S0651i	AB147297.1
D3S0921i	AB143920.1	D6S0565i	AB132356.1	D9S0652i	AB147302.1
D3S0922i	AB143921.1	D6S0566i	AB132373.1	D9S0653i	AB147303.1

D3S0923i	AB143922.1	D6S0567i	AB129089.1	D9S0654i	AB147309.1
D3S0924i	AB143923.1	D6S0569i	AB134431.1	D9S0655i	AB147310.1
D3S0925i	AB143924.1	D6S0570i	AB135486.1	D9S0656i	AB147311.1
D3S0926i	AB143925.1	D6S0571i	AB136718.1	D9S0657i	AB147315.1
D3S0927i	AB143926.1	D6S0573i	AB136722.1	D9S0658i	AB147316.1
D3S0928i	AB143927.1	D6S0574i	AB136723.1	D9S0659i	AB147317.1
D3S0929i	AB143928.1	D6S0576i	AB136727.1	D9S0660i	AB147318.1
D3S0931i	AB143930.1	D6S0577i	AB136728.1	D9S152	Z16424
D3S0932i	AB143931.1	D6S0578i	AB136729.1	D9S153	Z16442
D3S0933i	AB143932.1	D6S0579i	AB136732.1	D9S155	Z16470
D3S0934i	AB143933.1	D6S0580i	AB136734.1	D9S156	Z16480
D3S0935i	AB143934.1	D6S0581i	AB136735.1	D9S157	Z16515

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D3S0936i	AB143935.1	D6S0583i	AB136983.1	D9S158	Z16523
D3S0937i	AB143936.1	D6S0584i	AB136985.1	D9S159	Z16527
D3S0938i	AB143937.1	D6S0585i	AB136986.1	D9S160	Z16539
D3S0939i	AB143938.1	D6S0586i	AB136988.1	D9S161	Z16549
D3S0940i	AB143939.1	D6S0587i	AB136989.1	D9S162	Z16600
D3S0941i	AB143940.1	D6S0589i	AB136993.1	D9S163	Z16618
D3S0942i	AB143941.1	D6S0590i	AB136996.1	D9S164	Z16623
D3S0944i	AB143943.1	D6S0591i	AB137003.1	D9S165	Z16644
D3S0945i	AB143944.1	D6S0592i	AB137007.1	D9S166	Z16666
D3S0946i	AB143945.1	D6S0593i	AB137008.1	D9S167	Z16698
D3S0947i	AB143946.1	D6S0594i	AB137010.1	D9S1674	Z51019
D3S0948i	AB129323.1	D6S0595i	AB137197.1	D9S1675	Z51313

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D3S0949i	AB143948.1	D6S0596i	AB139868.1	D9S1676	Z51364
D3S0950i	AB143949.1	D6S0597i	AB141499.1	D9S1677	Z51366
D3S0951i	AB143950.1	D6S0598i	AB141581.1	D9S1678	Z51405
D3S0952i	AB143951.1	D6S0599i	AB141582.1	D9S1679	Z51437
D3S0953i	AB143952.1	D6S0600i	AB141585.1	D9S168	Z16707
D3S0954i	AB143953.1	D6S0601i	AB141586.1	D9S1680	Z51464
D3S0955i	AB143954.1	D6S0602i	AB141591.1	D9S1681	Z51542
D3S0956i	AB143955.1	D6S0603i	AB141592.1	D9S1683	Z51906
D3S0957i	AB143956.1	D6S0604i	AB141593.1	D9S1684	Z51104
D3S0958i	AB143957.1	D6S0605i	AB141594.1	D9S1687	Z51210
D3S0959i	AB143958.1	D6S0606i	AB129261.1	D9S1688	Z51258
D3S0961i	AB143960.1	D6S0607i	AB141597.1	D9S1689	Z51275

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D3S0962i	AB143961.1	D6S0608i	AB141598.1	D9S169	Z16737
D3S0963i	AB143962.1	D6S0609i	AB141602.1	D9S1690	Z51295
D3S0964i	AB143963.1	D6S0610i	AB129262.1	D9S170	Z16738
D3S0965i	AB143964.1	D6S0611i	AB141603.1	D9S171	Z16812
D3S0966i	AB143966.1	D6S0612i	AB141606.1	D9S172	Z16872
D3S0967i	AB143967.1	D6S0613i	AB141607.1	D9S173	Z16880
D3S0968i	AB143969.1	D6S0614i	AB141610.1	D9S174	Z16939
D3S0970i	AB143971.1	D6S0616i	AB129263.1	D9S177	Z17058
D3S0971i	AB143972.1	D6S0617i	AB141612.1	D9S1776	Z52087
D3S0972i	AB143973.1	D6S0618i	AB129264.1	D9S1777	Z52124
D3S0973i	AB143974.1	D6S0619i	AB141617.1	D9S1778	Z52133
D3S0974i	AB143975.1	D6S0621i	AB141619.1	D9S1779	Z50891

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D3S0975i	AB143976.1	D6S0622i	AB141622.1	D9S1780	Z52137
D3S0976i	AB143977.1	D6S0623i	AB129265.1	D9S1782	Z52143
D3S0978i	AB143979.1	D6S0624i	AB141631.1	D9S1783	Z52233
D3S0979i	AB143982.1	D6S0625i	AB141632.1	D9S1784	Z52235
D3S0980i	AB129324.1	D6S0626i	AB141637.1	D9S1785	Z52241
D3S0982i	AB143984.1	D6S0627i	AB141643.1	D9S1786	Z52245
D3S0983i	AB143985.1	D6S0628i	AB141649.1	D9S1787	Z52267
D3S0984i	AB143986.1	D6S0629i	AB141655.1	D9S1788	Z51031
D3S0985i	AB143987.1	D6S0630i	AB144520.1	D9S1790	Z52320
D3S0986i	AB143988.1	D6S0631i	AB144521.1	D9S1791	Z52381
D3S0987i	AB143989.1	D6S0634i	AB144526.1	D9S1792	Z52388
D3S0988i	AB143990.1	D6S0635i	AB144530.1	D9S1793	Z52430

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D3S0989i	AB143991.1	D6S0636i	AB144531.1	D9S1795	Z52495
D3S0990i	AB143992.1	D6S0637i	AB144532.1	D9S1796	Z52507
D3S0991i	AB143993.1	D6S0638i	AB144533.1	D9S1797	Z52510
D3S0992i	AB143994.1	D6S0639i	AB144535.1	D9S1799	Z52547
D3S0993i	AB143995.1	D6S0640i	AB144536.1	D9S180	Z16759
D3S0994i	AB143996.1	D6S0641i	AB144538.1	D9S1802	Z52648
D3S0995i	AB143997.1	D6S0642i	AB144539.1	D9S1803	Z52677
D3S0996i	AB143998.1	D6S0643i	AB144540.1	D9S1805	Z52760
D3S0997i	AB143999.1	D6S0644i	AB144541.1	D9S1806	Z52772
D3S0998i	AB144000.1	D6S0645i	AB144543.1	D9S1807	Z52789
D3S0999i	AB144001.1	D6S0646i	AB144545.1	D9S1808	Z52818
D3S1000i	AB144002.1	D6S0647i	AB144546.1	D9S1810	Z52857



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D3S1001i	AB144003.1	D6S0648i	AB144547.1	D9S1811	Z52864
D3S1002i	AB144005.1	D6S0649i	AB144549.1	D9S1812	Z52886
D3S1003i	AB144006.1	D6S0650i	AB144550.1	D9S1815	Z52921
D3S1004i	AB144007.1	D6S0651i	AB144551.1	D9S1816	Z52926
D3S1005i	AB144008.1	D6S0652i	AB144552.1	D9S1817	Z52965
D3S1007i	AB129325.1	D6S0653i	AB144555.1	D9S1818	Z53025
D3S1008i	AB144010.1	D6S0654i	AB144556.1	D9S1820	Z53086
D3S1009i	AB144011.1	D6S0655i	AB144557.1	D9S1821	Z53095
D3S1010i	AB144012.1	D6S0656i	AB144544.1	D9S1822	Z53100
D3S1012i	AB144015.1	D6S0657i	AB144558.1	D9S1823	Z53126
D3S1013i	AB144016.1	D6S0658i	AB144559.1	D9S1824	Z53136
D3S1014i	AB144017.1	D6S0659i	AB144560.1	D9S1825	Z53147

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D3S1015i	AB144018.1	D6S0660i	AB144561.1	D9S1826	Z53154
D3S1016i	AB144019.1	D6S0661i	AB144562.1	D9S1827	Z53159
D3S1017i	AB144021.1	D6S0662i	AB144563.1	D9S1828	Z51142
D3S1019i	AB144023.1	D6S0663i	AB144564.1	D9S1829	Z53168
D3S1020i	AB144024.1	D6S0664i	AB144565.1	D9S1830	Z53175
D3S1021i	AB143968.1	D6S0665i	AB144566.1	D9S1833	Z53267
D3S1023i	AB144026.1	D6S0666i	AB144567.1	D9S1834	Z53271
D3S1024i	AB144027.1	D6S0667i	AB129337.1	D9S1835	Z53273
D3S1025i	AB144028.1	D6S0668i	AB144568.1	D9S1836	Z53301
D3S1026i	AB144031.1	D6S0669i	AB144569.1	D9S1838	Z53450
D3S1027i	AB144032.1	D6S0670i	AB144570.1	D9S1839	Z53465
D3S1028i	AB144033.1	D6S0671i	AB144571.1	D9S1840	Z53489

Hypertension 77354 Supplement

D3S1029i	AB144034.1	D6S0672i	AB144572.1	D9S1842	Z53526
D3S1030i	AB144035.1	D6S0675i	AB144576.1	D9S1843	Z53587
D3S1031i	AB144036.1	D6S0676i	AB144577.1	D9S1848	Z53681
D3S1032i	AB129326.1	D6S0677i	AB144578.1	D9S1850	Z53699
D3S1033i	AB144037.1	D6S0678i	AB144579.1	D9S1851	Z53725
D3S1034i	AB144038.1	D6S0679i	AB144580.1	D9S1852	Z53768
D3S1035i	AB144039.1	D6S0680i	AB144581.1	D9S1854	Z53868
D3S1036i	AB144040.1	D6S0681i	AB144582.1	D9S1856	Z53886
D3S1037i	AB144041.1	D6S0682i	AB144583.1	D9S1859	Z53931
D3S1038i	AB144042.1	D6S0683i	AB144584.1	D9S1860	Z53953
D3S1039i	AB144050.1	D6S0684i	AB144585.1	D9S1861	Z53969
D3S1040i	AB144738.1	D6S0685i	AB144586.1	D9S1862	Z53997

Hypertension 77354 Supplement

D3S1041i	AB144920.1	D6S0686i	AB144587.1	D9S1863	Z54010
D3S1042i	AB145420.1	D6S0687i	AB144588.1	D9S1864	Z54058
D3S1044i	AB145427.1	D6S0688i	AB144589.1	D9S1865	Z54060
D3S1045i	AB145429.1	D6S0689i	AB144590.1	D9S1866	Z50916
D3S1046i	AB145432.1	D6S0690i	AB144591.1	D9S1867	Z51319
D3S1047i	AB145436.1	D6S0691i	AB144592.1	D9S1869	Z51430
D3S1048i	AB145423.1	D6S0692i	AB144593.1	D9S1870	Z51435
D3S1049i	AB145440.1	D6S0693i	AB144595.1	D9S1871	Z51478
D3S1050i	AB145441.1	D6S0694i	AB144596.1	D9S1873	Z51538
D3S1051i	AB145442.1	D6S0695i	AB144597.1	D9S1874	Z51577
D3S1052i	AB145443.1	D6S0696i	AB144598.1	D9S1875	Z51644
D3S1053i	AB145447.1	D6S0697i	AB144599.1	D9S1877	Z51753

Hypertension 77354 Supplement

D3S1054i	AB145448.1	D6S0698i	AB144600.1	D9S1878	Z51779
D3S1055i	AB145450.1	D6S0699i	AB144601.1	D9S1879	Z51852
D3S1056i	AB145451.1	D6S0700i	AB144602.1	D9S1880	Z51867
D3S1057i	AB145455.1	D6S0701i	AB144603.1	D9S1881	Z51905
D3S1058i	AB145456.1	D6S0702i	AB144604.1	D9S195	Z17253
D3S1059i	AB145457.1	D6S0703i	AB144605.1	D9S196	Z17257
D3S1060i	AB145462.1	D6S0704i	AB144606.1	D9S197	Z17266
D3S1061i	AB145463.1	D6S0705i	AB144607.1	D9S256	Z23408
D3S1062i	AB145464.1	D6S0707i	AB144609.1	D9S257	Z23440
D3S1063i	AB145467.1	D6S0709i	AB144611.1	D9S259	Z23451
D3S1064i	AB145468.1	D6S0710i	AB129338.1	D9S260	Z23568
D3S1065i	AB145469.1	D6S0711i	AB144612.1	D9S261	Z23602

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D3S1066i	AB146022.1	D6S0712i	AB144613.1	D9S262	Z23604
D3S1067i	AB146320.1	D6S0714i	AB144615.1	D9S263	Z23621
D3S1068i	AB146321.1	D6S0716i	AB144617.1	D9S264	Z23658
D3S1070i	AB146323.1	D6S0717i	AB144618.1	D9S267	Z23807
D3S1074i	AB146331.1	D6S0719i	AB144620.1	D9S269	Z23857
D3S1075i	AB146333.1	D6S0720i	AB144621.1	D9S270	Z23377
D3S1076i	AB146334.1	D6S0721i	AB144622.1	D9S271	Z23874
D3S1078i	AB146341.1	D6S0722i	AB144623.1	D9S272	Z23967
D3S1079i	AB146342.1	D6S0723i	AB129339.1	D9S273	Z23990
D3S1080i	AB146343.1	D6S0725i	AB144624.1	D9S274	Z24015
D3S1081i	AB146349.1	D6S0726i	AB144625.1	D9S275	Z24052
D3S1082i	AB146350.1	D6S0728i	AB144627.1	D9S276	Z24058

Hypertension 77354 Supplement

D3S1083i	AB146351.1	D6S0729i	AB144628.1	D9S277	Z24105
D3S1084i	AB146353.1	D6S0730i	AB144629.1	D9S278	Z24157
D3S1085i	AB146359.1	D6S0732i	AB144631.1	D9S279	Z24181
D3S1086i	AB146360.1	D6S0733i	AB144632.1	D9S280	Z24244
D3S1087i	AB146361.1	D6S0734i	AB144633.1	D9S281	Z24245
D3S1088i	AB146362.1	D6S0735i	AB144634.1	D9S283	Z24343
D3S1089i	AB146363.1	D6S0736i	AB144635.1	D9S284	Z24432
D3S1090i	AB146357.1	D6S0737i	AB144636.1	D9S286	Z24568
D3S1091i	AB146372.1	D6S0738i	AB144637.1	D9S287	Z24584
D3S1092i	AB146373.1	D6S0739i	AB144638.1	D9S288	Z24621
D3S1093i	AB146374.1	D6S0740i	AB144639.1	D9S318	G08732
D3S1095i	AB146381.1	D6S0741i	AB129340.1	D9S319	G09185

Hypertension 77354 Supplement

D3S1097i	AB146386.1	D6S0742i	AB144641.1	D9S323	G09224
D3S1098i	AB146390.1	D6S0743i	AB129341.1	D9S790	Z67847
D3S1099i	AB146391.1	D6S0744i	AB144642.1	D9S906	G08744
D3S1100i	AB146392.1	D6S0745i	AB144644.1	D9S920	G09176
D3S1102i	AB146402.1	D6S0746i	AB144645.1	D9S921	G08735
D3S1104i	AB147031.1	D6S0747i	AB144646.1	D9S922	G08736
D3S1105i	AB147032.1	D6S0748i	AB144647.1	D9S924	G09368
D3S1106i	AB147033.1	D6S0749i	AB144648.1	D9S925	G08739
D3S1107i	AB147034.1	D6S0750i	AB144649.1	D9S930	G08745
D3S1108i	AB147038.1	D6S0751i	AB144650.1	D9S936	G09126
D3S1109i	AB147040.1	D6S0752i	AB144651.1	D9S937	G09137
D3S1110i	AB147041.1	D6S0753i	AB144652.1	D9S938	G08761



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D3S1111i	AB129392.1	D6S0754i	AB144653.1	DXS0001i	AB129733.1
D3S1112i	AB147042.1	D6S0755i	AB144654.1	DXS0002i	AB129734.1
D3S1113i	AB147044.1	D6S0756i	AB144655.1	DXS0003i	AB129735.1
D3S1114i	AB147046.1	D6S0757i	AB144656.1	DXS0004i	AB129736.1
D3S1115i	AB147047.1	D6S0758i	AB144657.1	DXS0005i	AB129737.1
D3S1116i	AB147048.1	D6S0759i	AB144658.1	DXS0006i	AB129739.1
D3S1117i	AB147049.1	D6S0760i	AB144659.1	DXS0007i	AB129741.1
D3S1118i	AB147050.1	D6S0761i	AB144660.1	DXS0008i	AB129742.1
D3S1120i	AB147052.1	D6S0762i	AB144662.1	DXS0009i	AB129743.1
D3S1121i	AB147053.1	D6S0763i	AB144663.1	DXS0010i	AB129745.1
D3S1122i	AB147054.1	D6S0764i	AB144664.1	DXS0011i	AB129746.1
D3S1123i	AB147055.1	D6S0765i	AB144665.1	DXS0012i	AB129747.1

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D3S1124i	AB147056.1	D6S0766i	AB144666.1	DXS0013i	AB129748.1
D3S1127i	AB147059.1	D6S0767i	AB144667.1	DXS0014i	AB129749.1
D3S1128i	AB147060.1	D6S0768i	AB144668.1	DXS0016i	AB129751.1
D3S1129i	AB147061.1	D6S0769i	AB144669.1	DXS0017i	AB129752.1
D3S1130i	AB147062.1	D6S0770i	AB144670.1	DXS0018i	AB129755.1
D3S1131i	AB147063.1	D6S0771i	AB144671.1	DXS0019i	AB129756.1
D3S1132i	AB147064.1	D6S0772i	AB144672.1	DXS0020i	AB129757.1
D3S1133i	AB147067.1	D6S0773i	AB144673.1	DXS0021i	AB129036.1
D3S1134i	AB147068.1	D6S0774i	AB144674.1	DXS0022i	AB129759.1
D3S1135i	AB147069.1	D6S0775i	AB144675.1	DXS0023i	AB129760.1
D3S1136i	AB147070.1	D6S0776i	AB144676.1	DXS0024i	AB129761.1
D3S1137i	AB147071.1	D6S0777i	AB144677.1	DXS0025i	AB129763.1

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D3S1138i	AB147082.1	D6S0778i	AB144678.1	DXS0026i	AB129764.1
D3S1258	Z16453	D6S0779i	AB144679.1	DXS0027i	AB129766.1
D3S1261	Z16488	D6S0780i	AB129342.1	DXS0028i	AB129767.1
D3S1262	Z16497	D6S0781i	AB144680.1	DXS0029i	AB130028.1
D3S1263	Z16536	D6S0782i	AB129343.1	DXS0030i	AB130031.1
D3S1264	Z16543	D6S0783i	AB144681.1	DXS0031i	AB130033.1
D3S1265	Z16547	D6S0784i	AB144682.1	DXS0032i	AB130034.1
D3S1266	Z16561	D6S0785i	AB144683.1	DXS0033i	AB130036.1
D3S1267	Z16607	D6S0786i	AB144684.1	DXS0034i	AB130037.1
D3S1268	Z16608	D6S0787i	AB144685.1	DXS0035i	AB130038.1
D3S1269	Z16613	D6S0788i	AB144686.1	DXS0036i	AB130039.1
D3S1271	Z16635	D6S0789i	AB144687.1	DXS0037i	AB130041.1

Hypertension 77354 Supplement

D3S1273	Z16682	D6S0790i	AB144688.1	DXS0038i	AB130042.1
D3S1275	Z16699	D6S0792i	AB144690.1	DXS0039i	AB130043.1
D3S1277	Z16732	D6S0793i	AB144691.1	DXS0040i	AB130044.1
D3S1278	Z16734	D6S0794i	AB144692.1	DXS0041i	AB130045.1
D3S1280	Z16775	D6S0795i	AB144693.1	DXS0042i	AB130046.1
D3S1281	Z16779	D6S0796i	AB144694.1	DXS0043i	AB134629.1
D3S1282	Z16785	D6S0797i	AB144695.1	DXS0044i	AB135472.1
D3S1283	Z16798	D6S0798i	AB144696.1	DXS0045i	AB129149.1
D3S1285	Z16827	D6S0799i	AB144697.1	DXS0046i	AB135473.1
D3S1289	Z16860	D6S0800i	AB144698.1	DXS0047i	AB135477.1
D3S1290	Z16861	D6S0801i	AB144699.1	DXS0048i	AB135483.1
D3S1291	Z16864	D6S0802i	AB144700.1	DXS0049i	AB135489.1

Hypertension 77354 Supplement

D3S1292	Z16871	D6S0803i	AB144701.1	DXS0050i	AB135490.1
D3S1293	Z16892	D6S0804i	AB129344.1	DXS0051i	AB135494.1
D3S1294	Z16944	D6S0805i	AB144702.1	DXS0052i	AB135499.1
D3S1295	Z16957	D6S0806i	AB144703.1	DXS0053i	AB135503.1
D3S1296	Z16963	D6S0807i	AB144704.1	DXS0054i	AB135504.1
D3S1297	Z16985	D6S0808i	AB144705.1	DXS0055i	AB135508.1
D3S1298	Z17003	D6S0809i	AB144706.1	DXS0056i	AB135510.1
D3S1299	Z17005	D6S0810i	AB144707.1	DXS0058i	AB135513.1
D3S1300	Z17006	D6S0811i	AB144708.1	DXS0059i	AB135515.1
D3S1301	Z17014	D6S0812i	AB144709.1	DXS0060i	AB135516.1
D3S1302	Z17024	D6S0815i	AB144712.1	DXS0061i	AB135517.1
D3S1303	Z17032	D6S0816i	AB144713.1	DXS0062i	AB135518.1

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D3S1305	Z17042	D6S0817i	AB144714.1	DXS0063i	AB135519.1
D3S1306	Z17047	D6S0818i	AB144715.1	DXS0064i	AB135520.1
D3S1307	Z17063	D6S0819i	AB144716.1	DXS0065i	AB135521.1
D3S1309	Z17089	D6S0820i	AB144717.1	DXS0066i	AB135524.1
D3S1310	Z17098	D6S0821i	AB144718.1	DXS0067i	AB129150.1
D3S1311	Z17273	D6S0822i	AB144719.1	DXS0068i	AB135527.1
D3S1312	Z17154	D6S0823i	AB144720.1	DXS0069i	AB135528.1
D3S1313	Z17163	D6S0824i	AB144721.1	DXS0070i	AB135529.1
D3S1314	Z17168	D6S0825i	AB144722.1	DXS0072i	AB135531.1
D3S1315	Z17185	D6S0826i	AB144724.1	DXS0073i	AB135532.1
D3S1316	Z17193	D6S0827i	AB144725.1	DXS0074i	AB129151.1
D3S1549	Z23438	D6S0828i	AB144726.1	DXS0075i	AB135533.1

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D3S1550	Z23444	D6S0829i	AB144727.1	DXS0076i	AB135534.1
D3S1551	Z23485	D6S0830i	AB144728.1	DXS0077i	AB135535.1
D3S1553	Z23516	D6S0832i	AB144730.1	DXS0078i	AB135536.1
D3S1554	Z23545	D6S0833i	AB144731.1	DXS0079i	AB135537.1
D3S1555	Z23315	D6S0834i	AB144732.1	DXS0080i	AB135538.1
D3S1556	Z23587	D6S0836i	AB129345.1	DXS0081i	AB135539.1
D3S1557	Z23589	D6S0838i	AB144735.1	DXS0082i	AB135540.1
D3S1558	Z23317	D6S0839i	AB144736.1	DXS0083i	AB135541.1
D3S1560	Z23641	D6S0840i	AB144737.1	DXS0084i	AB135542.1
D3S1561	Z23666	D6S0841i	AB144739.1	DXS0085i	AB135544.1
D3S1562	Z23675	D6S0842i	AB144740.1	DXS0087i	AB135546.1
D3S1563	Z23681	D6S0843i	AB144741.1	DXS0088i	AB135547.1

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D3S1564	Z23684	D6S0844i	AB144742.1	DXS0089i	AB135548.1
D3S1565	Z23690	D6S0845i	AB144744.1	DXS0090i	AB135549.1
D3S1566	Z23701	D6S0846i	AB144745.1	DXS0091i	AB135550.1
D3S1568	Z23748	D6S0847i	AB129346.1	DXS0092i	AB135553.1
D3S1569	Z23768	D6S0848i	AB144746.1	DXS0093i	AB135554.1
D3S1570	Z23783	D6S0849i	AB144747.1	DXS0094i	AB135555.1
D3S1571	Z23789	D6S0850i	AB144748.1	DXS0095i	AB135556.1
D3S1572	Z23835	D6S0851i	AB144749.1	DXS0096i	AB135557.1
D3S1573	Z23382	D6S0852i	AB144751.1	DXS0097i	AB135558.1
D3S1574	Z23405	D6S0853i	AB144752.1	DXS0098i	AB135559.1
D3S1575	Z23870	D6S0854i	AB144754.1	DXS0099i	AB129152.1
D3S1577	Z23898	D6S0855i	AB144755.1	DXS0100i	AB135560.1



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D3S1578	Z23902	D6S0856i	AB144756.1	DXS0101i	AB135561.1
D3S1579	Z23933	D6S0857i	AB144757.1	DXS0102i	AB135562.1
D3S1580	Z23936	D6S0859i	AB144759.1	DXS0103i	AB135563.1
D3S1581	Z23940	D6S0860i	AB144760.1	DXS0104i	AB135564.1
D3S1582	Z23951	D6S0861i	AB144762.1	DXS0105i	AB135565.1
D3S1583	Z23961	D6S0862i	AB144763.1	DXS0106i	AB135566.1
D3S1584	Z23979	D6S0863i	AB144764.1	DXS0108i	AB135568.1
D3S1585	Z24017	D6S0864i	AB144765.1	DXS0109i	AB135569.1
D3S1587	Z24044	D6S0865i	AB144766.1	DXS0110i	AB135570.1
D3S1588	Z24059	D6S0866i	AB144767.1	DXS0111i	AB135572.1
D3S1589	Z24100	D6S0867i	AB144768.1	DXS0112i	AB135573.1
D3S1590	Z24103	D6S0868i	AB144769.1	DXS0113i	AB135575.1

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D3S1591	Z24119	D6S0869i	AB144853.1	DXS0114i	AB135577.1
D3S1592	Z24120	D6S0870i	AB145393.1	DXS0115i	AB135578.1
D3S1593	Z24123	D6S0871i	AB146027.1	DXS0116i	AB135579.1
D3S1594	Z24125	D6S0872i	AB146516.1	DXS0117i	AB135580.1
D3S1595	Z24145	D6S0873i	AB146517.1	DXS0118i	AB135582.1
D3S1597	Z24155	D6S0874i	AB146518.1	DXS0119i	AB135583.1
D3S1598	Z24166	D6S0875i	AB146519.1	DXS0120i	AB135585.1
D3S1600	Z24267	D6S0876i	AB146520.1	DXS0121i	AB135586.1
D3S1601	Z24269	D6S0877i	AB146521.1	DXS0122i	AB135590.1
D3S1602	Z24275	D6S0878i	AB146522.1	DXS0123i	AB135591.1
D3S1603	Z24304	D6S0880i	AB146524.1	DXS0124i	AB135592.1
D3S1604	Z24325	D6S0881i	AB146525.1	DXS0125i	AB135593.1

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D3S1605	Z24332	D6S0883i	AB146527.1	DXS0126i	AB135594.1
D3S1606	Z24340	D6S0884i	AB146528.1	DXS0127i	AB135597.1
D3S1607	Z24353	D6S0885i	AB146529.1	DXS0128i	AB135598.1
D3S1608	Z24357	D6S0886i	AB146530.1	DXS0129i	AB135599.1
D3S1609	Z24361	D6S0887i	AB146531.1	DXS0130i	AB135600.1
D3S1610	Z24375	D6S0888i	AB146532.1	DXS0131i	AB135601.1
D3S1611	Z24553	D6S0891i	AB146535.1	DXS0132i	AB135602.1
D3S1613	Z24556	D6S0892i	AB146536.1	DXS0133i	AB135604.1
D3S1614	Z24572	D6S0893i	AB146537.1	DXS0134i	AB135608.1
D3S1615	Z24582	D6S0894i	AB146538.1	DXS0135i	AB135609.1
D3S1616	Z24586	D6S0895i	AB146539.1	DXS0136i	AB135610.1
D3S1618	Z24591	D6S0896i	AB146540.1	DXS0137i	AB135611.1

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D3S1620	Z24600	D6S0898i	AB146542.1	DXS0138i	AB135612.1
D3S1621	Z24651	D6S0899i	AB146543.1	DXS0139i	AB135613.1
D3S1746	G08290	D6S0900i	AB146544.1	DXS0140i	AB135614.1
D3S1753	G08230	D6S0901i	AB146545.1	DXS0141i	AB135615.1
D3S1764	G08258	D6S0902i	AB146546.1	DXS0142i	AB135616.1
D3S1769	G08289	D6S0903i	AB146547.1	DXS0143i	AB135618.1
D3S2336	Z51436	D6S0905i	AB146549.1	DXS0144i	AB135619.1
D3S2337	Z50879	D6S0906i	AB146550.1	DXS0145i	AB135620.1
D3S2338	Z51546	D6S0907i	AB146551.1	DXS0146i	AB135621.1
D3S2354	Z67771	D6S0908i	AB146552.1	DXS0147i	AB135622.1
D3S2369	Z67759	D6S0909i	AB146553.1	DXS0148i	AB135623.1
D3S2370	Z67799	D6S0912i	AB146556.1	DXS0149i	AB135624.1

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D3S2372	Z67808	D6S0913i	AB146557.1	DXS0150i	AB135625.1
D3S2373	Z67822	D6S0914i	AB146558.1	DXS0151i	AB135627.1
D3S2386	G15742	D6S0915i	AB146559.1	DXS0152i	AB135628.1
D3S2388	G08238	D6S0916i	AB146560.1	DXS0153i	AB135631.1
D3S2389	G08241	D6S0917i	AB146561.1	DXS0154i	AB135632.1
D3S2392	G08250	D6S0918i	AB146562.1	DXS0155i	AB135633.1
D3S2393	G08251	D6S0919i	AB146563.1	DXS0156i	AB135634.1
D3S2396	G08259	D6S0920i	AB146564.1	DXS0157i	AB135635.1
D3S2397	G08260	D6S0921i	AB146565.1	DXS0158i	AB135636.1
D3S2400	G08293	D6S0922i	AB146566.1	DXS0159i	AB135637.1
D3S2401	G08295	D6S0923i	AB146567.1	DXS0160i	AB135638.1
D3S2405	G08305	D6S0924i	AB146568.1	DXS0161i	AB135639.1

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D3S2406	G08304	D6S0925i	AB146569.1	DXS0162i	AB135640.1
D3S2409	G08207	D6S0927i	AB146571.1	DXS0163i	AB135642.1
D3S2414	G09863	D6S0928i	AB146572.1	DXS0164i	AB135643.1
D3S2418	G08213	D6S0930i	AB146574.1	DXS0165i	AB135645.1
D3S2419	G08214	D6S0931i	AB146575.1	DXS0166i	AB135646.1
D3S2423	G09198	D6S0932i	AB146576.1	DXS0167i	AB135648.1
D3S2424	G09178	D6S0933i	AB146582.1	DXS0168i	AB135649.1
D3S2425	G08233	D6S0934i	AB146583.1	DXS0169i	AB135650.1
D3S2427	G08235	D6S0936i	AB146597.1	DXS0170i	AB135652.1
D3S2432	G08240	D6S0938i	AB146604.1	DXS0171i	AB135653.1
D3S2433	G08242	D6S0940i	AB146611.1	DXS0172i	AB135654.1
D3S2438	G09107	D6S0941i	AB146620.1	DXS0173i	AB135658.1

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D3S2439	G09156	D6S0942i	AB147171.1	DXS0174i	AB135659.1
D3S2442	G09744	D6S0943i	AB147172.1	DXS0175i	AB135660.1
D3S2445	G08252	D6S0944i	AB147173.1	DXS0176i	AB135661.1
D3S2446	G08253	D6S0945i	AB147174.1	DXS0177i	AB135662.1
D3S2449	G09651	D6S0947i	AB147176.1	DXS0178i	AB135663.1
D3S2450	G09639	D6S0948i	AB147178.1	DXS0179i	AB135664.1
D3S2457	G08265	D6S0949i	AB147179.1	DXS0180i	AB135665.1
D3S2458	G08267	D6S0951i	AB147181.1	DXS0181i	AB135666.1
D3S2459	G08268	D6S0952i	AB147185.1	DXS0182i	AB135667.1
D3S2461	G09989	D6S0953i	AB147186.1	DXS0183i	AB135668.1
D3S2495	Z51025	D6S0954i	AB147187.1	DXS0184i	AB135669.1
D3S2496	Z52170	D6S0955i	AB147188.1	DXS0185i	AB135670.1

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D3S3507	Z50876	D6S0956i	AB147189.1	DXS0186i	AB135671.1
D3S3508	Z51103	D6S0957i	AB147190.1	DXS0187i	AB129154.1
D3S3509	Z51112	D6S0958i	AB147193.1	DXS0188i	AB135672.1
D3S3510	Z51144	D6S0959i	AB147194.1	DXS0189i	AB135674.1
D3S3513	Z51182	D6S0960i	AB147195.1	DXS0190i	AB135675.1
D3S3514	Z51261	D6S0961i	AB147196.1	DXS0191i	AB135676.1
D3S3515	Z51324	D6S0962i	AB147197.1	DXS0192i	AB135679.1
D3S3516	Z51365	D6S0963i	AB147198.1	DXS0193i	AB135680.1
D3S3519	Z51419	D6S0964i	AB147201.1	DXS0194i	AB135681.1
D3S3520	Z51426	D6S0965i	AB147202.1	DXS0195i	AB135682.1
D3S3521	Z51490	D6S0968i	AB147205.1	DXS0196i	AB135683.1
D3S3522	Z51503	D6S0969i	AB147206.1	DXS0197i	AB135684.1



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D3S3523	Z51582	D6S0970i	AB147207.1	DXS0198i	AB135685.1
D3S3524	Z51758	D6S0971i	AB147211.1	DXS0199i	AB135686.1
D3S3525	Z51813	D6S0972i	AB147212.1	DXS0200i	AB135687.1
D3S3527	Z51882	D6S0973i	AB147213.1	DXS0201i	AB135688.1
D3S3529	Z51057	D6S0974i	AB147214.1	DXS0202i	AB135689.1
D3S3530	Z51071	D6S0975i	AB147215.1	DXS0203i	AB135690.1
D3S3531	Z51078	D6S0976i	AB147216.1	DXS0204i	AB135691.1
D3S3532	Z51101	D6S0978i	AB147221.1	DXS0205i	AB135692.1
D3S3545	Z51002	D6S0979i	AB147222.1	DXS0206i	AB135693.1
D3S3546	Z52046	D6S0980i	AB147223.1	DXS0207i	AB135695.1
D3S3547	Z52056	D6S0981i	AB147224.1	DXS0208i	AB135697.1
D3S3548	Z52059	D6S0982i	AB147225.1	DXS0210i	AB135699.1

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D3S3549	Z52065	D6S0983i	AB147228.1	DXS0211i	AB135700.1
D3S3550	Z52098	D6S0984i	AB147229.1	DXS0212i	AB135701.1
D3S3552	Z52123	D6S0985i	AB147230.1	DXS0213i	AB129155.1
D3S3553	Z52127	D6S0986i	AB147231.1	DXS0214i	AB135703.1
D3S3554	Z52135	D6S0988i	AB147233.1	DXS0215i	AB135704.1
D3S3555	Z52138	D6S1003	G08495	DXS0216i	AB135706.1
D3S3556	Z52192	D6S1007	G08525	DXS0217i	AB135708.1
D3S3558	Z52249	D6S1009	G08542	DXS0218i	AB135709.1
D3S3560	Z52263	D6S1020	G08491	DXS0219i	AB135710.1
D3S3561	Z52269	D6S1021	G08492	DXS0220i	AB135711.1
D3S3562	Z52281	D6S1026	G08499	DXS0221i	AB135712.1
D3S3563	Z52311	D6S1030	G08503	DXS0222i	AB135713.1

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D3S3568	Z52369	D6S1032	G08507	DXS0223i	AB135715.1
D3S3569	Z52382	D6S1033	G09296	DXS0224i	AB135717.1
D3S3570	Z52396	D6S1035	G08515	DXS0225i	AB135718.1
D3S3571	Z52414	D6S1038	G08528	DXS0226i	AB135719.1
D3S3575	Z52498	D6S1039	G09384	DXS0227i	AB135720.1
D3S3576	Z52504	D6S1040	G08529	DXS0228i	AB135721.1
D3S3577	Z52506	D6S1041	G08532	DXS0229i	AB135724.1
D3S3578	Z52535	D6S1048	G08550	DXS0230i	AB135725.1
D3S3579	Z52548	D6S1049	G09659	DXS0231i	AB135726.1
D3S3580	Z51066	D6S1051	G08553	DXS0232i	AB135727.1
D3S3581	Z52597	D6S1053	G08556	DXS0233i	AB135728.1
D3S3582	Z52625	D6S1056	G08558	DXS0234i	AB135729.1

Hypertension 77354 Supplement

D3S3583	Z52654	D6S1060	G08575	DXS0235i	AB135730.1
D3S3585	Z52666	D6S1061	G09441	DXS0237i	AB136832.1
D3S3587	Z51091	D6S1541	Z50877	DXS0238i	AB136833.1
D3S3588	Z52743	D6S1542	Z52075	DXS0239i	AB136836.1
D3S3589	Z52764	D6S1543	Z52076	DXS0240i	AB136838.1
D3S3590	Z52835	D6S1548	Z52221	DXS0241i	AB136839.1
D3S3591	Z52860	D6S1550	Z52264	DXS0242i	AB138092.1
D3S3593	Z52896	D6S1551	Z51032	DXS0250i	AB141720.1
D3S3595	Z51119	D6S1552	Z51040	DXS0251i	AB141722.1
D3S3597	Z52963	D6S1554	Z52373	DXS0252i	AB141723.1
D3S3599	Z52991	D6S1555	Z51044	DXS0253i	AB141724.1
D3S3601	Z52997	D6S1556	Z52411	DXS0254i	AB141725.1

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D3S3603	Z53043	D6S1557	Z52434	DXS0255i	AB141726.1
D3S3604	Z53068	D6S1558	Z52438	DXS0257i	AB141728.1
D3S3605	Z53116	D6S1559	Z51054	DXS0258i	AB141729.1
D3S3606	Z53117	D6S1560	Z52491	DXS0260i	AB141731.1
D3S3607	Z53134	D6S1561	Z51060	DXS0261i	AB141732.1
D3S3609	Z53158	D6S1562	Z51063	DXS0262i	AB141733.1
D3S3610	Z53173	D6S1563	Z51064	DXS0264i	AB141735.1
D3S3612	Z53198	D6S1564	Z52540	DXS0265i	AB141721.1
D3S3615	Z53223	D6S1565	Z51065	DXS0266i	AB141736.1
D3S3616	Z53243	D6S1567	Z52559	DXS0267i	AB141737.1
D3S3617	Z53275	D6S1568	Z52564	DXS0268i	AB141738.1
D3S3618	Z51158	D6S1569	Z52573	DXS0269i	AB141739.1

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D3S3619	Z53279	D6S1570	Z52576	DXS0270i	AB141740.1
D3S3620	Z53306	D6S1571	Z52578	DXS0271i	AB141741.1
D3S3621	Z53322	D6S1572	Z52615	DXS0272i	AB141742.1
D3S3622	Z53333	D6S1573	Z52617	DXS0273i	AB141743.1
D3S3623	Z53344	D6S1574	Z52618	DXS0274i	AB141744.1
D3S3624	Z53367	D6S1575	Z51079	DXS0275i	AB141745.1
D3S3625	Z53382	D6S1577	Z52635	DXS0276i	AB141746.1
D3S3626	Z53390	D6S1578	Z52678	DXS0277i	AB141747.1
D3S3627	Z53399	D6S1579	Z52681	DXS0278i	AB141748.1
D3S3628	Z53403	D6S1580	Z51089	DXS0279i	AB141749.1
D3S3629	Z53408	D6S1581	Z52717	DXS0280i	AB141750.1
D3S3630	Z53409	D6S1582	Z52725	DXS0281i	AB141751.1

Hypertension 77354 Supplement

D3S3631	Z51177	D6S1583	Z52734	DXS0282i	AB141752.1
D3S3632	Z53433	D6S1584	Z52792	DXS0283i	AB141753.1
D3S3633	Z53448	D6S1585	Z52806	DXS0284i	AB141754.1
D3S3634	Z53451	D6S1587	Z52847	DXS0285i	AB141755.1
D3S3635	Z53464	D6S1590	Z52863	DXS0286i	AB141756.1
D3S3638	Z53501	D6S1592	Z52867	DXS0287i	AB141757.1
D3S3639	Z53513	D6S1595	Z52894	DXS0288i	AB141758.1
D3S3640	Z53519	D6S1596	Z52907	DXS0289i	AB141759.1
D3S3641	Z53523	D6S1598	Z52943	DXS0290i	AB141760.1
D3S3642	Z53524	D6S1599	Z52945	DXS0291i	AB141761.1
D3S3643	Z53532	D6S1600	Z52999	DXS0292i	AB141762.1
D3S3644	Z53549	D6S1601	Z51126	DXS0294i	AB141764.1

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D3S3645	Z53551	D6S1602	Z53053	DXS0295i	AB141765.1
D3S3646	Z53559	D6S1603	Z51130	DXS0296i	AB141766.1
D3S3647	Z53564	D6S1607	Z53087	DXS0297i	AB141767.1
D3S3649	Z53599	D6S1609	Z53127	DXS0298i	AB141768.1
D3S3650	Z53602	D6S1610	Z53131	DXS0299i	AB141769.1
D3S3651	Z53606	D6S1612	Z53148	DXS0300i	AB141770.1
D3S3652	Z53610	D6S1613	Z53157	DXS0302i	AB141772.1
D3S3654	Z53626	D6S1614	Z50905	DXS0303i	AB141773.1
D3S3655	Z53629	D6S1616	Z53210	DXS0304i	AB141774.1
D3S3656	Z53647	D6S1617	Z51149	DXS0305i	AB141775.1
D3S3657	Z53655	D6S1619	Z50906	DXS0306i	AB141776.1
D3S3658	Z53657	D6S1620	Z53280	DXS0307i	AB141777.1



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D3S3659	Z53665	D6S1621	Z51159	DXS0308i	AB141778.1
D3S3660	Z53727	D6S1623	Z53317	DXS0309i	AB141779.1
D3S3664	Z53775	D6S1626	Z53353	DXS0310i	AB141780.1
D3S3665	Z53777	D6S1627	Z53360	DXS0311i	AB141781.1
D3S3666	Z53790	D6S1628	Z53366	DXS0312i	AB141782.1
D3S3667	Z53796	D6S1629	Z53381	DXS0313i	AB141783.1
D3S3668	Z53799	D6S1630	Z53405	DXS0314i	AB141784.1
D3S3669	Z53803	D6S1631	Z53406	DXS0315i	AB141785.1
D3S3670	Z53810	D6S1636	Z53506	DXS0316i	AB141786.1
D3S3671	Z53814	D6S1638	Z53525	DXS0317i	AB141788.1
D3S3673	Z53834	D6S1639	Z53531	DXS0318i	AB141789.1
D3S3674	Z53836	D6S1640	Z53553	DXS0319i	AB141790.1

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D3S3675	Z53837	D6S1641	Z53563	DXS0322i	AB142404.1
D3S3676	Z53844	D6S1642	Z53565	DXS0323i	AB142407.1
D3S3677	Z53900	D6S1645	Z53594	DXS0324i	AB142882.1
D3S3678	Z53905	D6S1646	Z51201	DXS0326i	AB143466.1
D3S3679	Z53910	D6S1647	Z53632	DXS0327i	AB143513.1
D3S3680	Z53913	D6S1649	Z50911	DXS0328i	AB143568.1
D3S3681	Z53934	D6S1650	Z53691	DXS0329i	AB144094.1
D3S3682	Z53935	D6S1652	Z53713	DXS0330i	AB144661.1
D3S3683	Z53941	D6S1656	Z53726	DXS0331i	AB145126.1
D3S3684	Z53946	D6S1657	Z53749	DXS0332i	AB145127.1
D3S3685	Z53950	D6S1658	Z53822	DXS0333i	AB145128.1
D3S3686	Z53959	D6S1659	Z53823	DXS0334i	AB145129.1

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D3S3687	Z54011	D6S1660	Z53853	DXS0335i	AB145130.1
D3S3688	Z54013	D6S1661	Z51233	DXS0336i	AB145131.1
D3S3689	Z54017	D6S1662	Z53956	DXS0337i	AB145132.1
D3S3690	Z54030	D6S1664	Z53986	DXS0338i	AB145133.1
D3S3692	Z54043	D6S1665	Z54014	DXS0339i	AB145134.1
D3S3694	Z54062	D6S1666	Z54022	DXS0340i	AB145135.1
D3S3695	Z54063	D6S1668	Z54055	DXS0341i	AB145136.1
D3S3696	Z51310	D6S1669	Z50880	DXS0342i	AB145137.1
D3S3697	Z51316	D6S1671	Z51269	DXS0343i	AB145138.1
D3S3698	Z51349	D6S1672	Z51291	DXS0344i	AB145139.1
D3S3699	Z51397	D6S1674	Z51304	DXS0345i	AB145140.1
D3S3703	Z51556	D6S1675	Z51362	DXS0346i	AB145141.1

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D3S3705	Z51568	D6S1677	Z51399	DXS0347i	AB145142.1
D3S3706	Z51617	D6S1678	Z51403	DXS0348i	AB145143.1
D3S3707	Z51642	D6S1680	Z51446	DXS0350i	AB145145.1
D3S3708	Z50954	D6S1683	Z51515	DXS0351i	AB129355.1
D3S3709	Z51739	D6S1684	Z51534	DXS0352i	AB145146.1
D3S3710	Z51742	D6S1685	Z50944	DXS0353i	AB145147.1
D3S3711	Z51790	D6S1687	Z51600	DXS0354i	AB145148.1
D3S3712	Z51803	D6S1688	Z51646	DXS0355i	AB145149.1
D3S3713	Z51808	D6S1692	Z51687	DXS0356i	AB145150.1
D3S3716	Z51823	D6S1693	Z50959	DXS0357i	AB145151.1
D3S3717	Z51832	D6S1695	Z51716	DXS0358i	AB145152.1
D3S3718	Z51857	D6S1697	Z51737	DXS0359i	AB145153.1

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D3S3719	Z51863	D6S1698	Z51754	DXS0360i	AB145155.1
D3S3720	Z51870	D6S1700	Z51763	DXS0361i	AB145156.1
D3S3721	Z51871	D6S1702	Z51778	DXS0362i	AB145157.1
D3S3722	Z51877	D6S1704	Z51796	DXS0363i	AB145158.1
D3S3723	Z51892	D6S1705	Z50974	DXS0364i	AB145159.1
D3S3724	Z51922	D6S1706	Z50979	DXS0365i	AB145160.1
D3S3725	Z51930	D6S1707	Z51846	DXS0366i	AB145161.1
D3S3726	Z51945	D6S1708	Z51853	DXS0367i	AB145162.1
D3S3727	Z51987	D6S1709	Z51858	DXS0369i	AB145164.1
D3S3729	Z52003	D6S1710	Z51860	DXS0370i	AB145165.1
D3S3730	Z52026	D6S1711	Z50983	DXS0371i	AB145166.1
D4S0001i	AB129514.1	D6S1712	Z51890	DXS0372i	AB145167.1

D4S0002i	AB129515.1	D6S1713	Z51894	DXS0373i	AB145168.1
D4S0003i	AB129519.1	D6S1714	Z50988	DXS0374i	AB145169.1
D4S0004i	AB129821.1	D6S1715	Z51925	DXS0375i	AB145170.1
D4S0005i	AB129825.1	D6S1716	Z51943	DXS0376i	AB145171.1
D4S0006i	AB129826.1	D6S1717	Z50990	DXS0377i	AB145172.1
D4S0007i	AB129834.1	D6S1720	Z51997	DXS0378i	AB145173.1
D4S0008i	AB130099.1	D6S257	Z16440	DXS0379i	AB145174.1
D4S0009i	AB130103.1	D6S258	Z16454	DXS0380i	AB145175.1
D4S0010i	AB130106.1	D6S259	Z16457	DXS0382i	AB145177.1
D4S0011i	AB130108.1	D6S260	Z16485	DXS0383i	AB145178.1
D4S0012i	AB130109.1	D6S261	Z16498	DXS0384i	AB145179.1
D4S0013i	AB130110.1	D6S263	Z16513	DXS0385i	AB145180.1

D4S0014i	AB130115.1	D6S264	Z16538	DXS0386i	AB145181.1
D4S0015i	AB130116.1	D6S265	Z16569	DXS0387i	AB145182.1
D4S0016i	AB130119.1	D6S267	Z16596	DXS0389i	AB145184.1
D4S0017i	AB130120.1	D6S270	Z16636	DXS0390i	AB145185.1
D4S0018i	AB130122.1	D6S274	Z16663	DXS0391i	AB145186.1
D4S0019i	AB130123.1	D6S275	Z16708	DXS0392i	AB145187.1
D4S0020i	AB130124.1	D6S276	Z16711	DXS0393i	AB145188.1
D4S0021i	AB130129.1	D6S277	Z16712	DXS0394i	AB145189.1
D4S0022i	AB130130.1	D6S278	Z16719	DXS0395i	AB145190.1
D4S0023i	AB130131.1	D6S280	Z16764	DXS0396i	AB145191.1
D4S0024i	AB130132.1	D6S282	Z16799	DXS0397i	AB145192.1
D4S0025i	AB130133.1	D6S286	Z16857	DXS0398i	AB145193.1

D4S0026i	AB130135.1	D6S287	Z16863	DXS0399i	AB145194.1
D4S0027i	AB130136.1	D6S288	Z16874	DXS0400i	AB145195.1
D4S0028i	AB130147.1	D6S289	Z16884	DXS0401i	AB129356.1
D4S0029i	AB131344.1	D6S291	Z16904	DXS0402i	AB145196.1
D4S0030i	AB131510.1	D6S292	Z16907	DXS0403i	AB145197.1
D4S0031i	AB131524.1	D6S294	Z16922	DXS0404i	AB145198.1
D4S0032i	AB131532.1	D6S295	Z16930	DXS0405i	AB145199.1
D4S0033i	AB131538.1	D6S296	Z16942	DXS0406i	AB145200.1
D4S0034i	AB131545.1	D6S297	Z16973	DXS0407i	AB145201.1
D4S0035i	AB131546.1	D6S300	Z16991	DXS0408i	AB145202.1
D4S0036i	AB131552.1	D6S301	Z17009	DXS0409i	AB145203.1
D4S0037i	AB129070.1	D6S302	Z17016	DXS0410i	AB145204.1



D4S0038i	AB131553.1	D6S305	Z17103	DXS0411i	AB145205.1
D4S0039i	AB131554.1	D6S306	Z17120	DXS0412i	AB145206.1
D4S0040i	AB131556.1	D6S308	Z17180	DXS0413i	AB145207.1
D4S0041i	AB131558.1	D6S309	Z17187	DXS0414i	AB145208.1
D4S0042i	AB131560.1	D6S313	Z16824	DXS0415i	AB145209.1
D4S0043i	AB131562.1	D6S401	Z23421	DXS0416i	AB145210.1
D4S0045i	AB131566.1	D6S402	Z23456	DXS0417i	AB145211.1
D4S0046i	AB131567.1	D6S404	Z23458	DXS0418i	AB145212.1
D4S0047i	AB131568.1	D6S405	Z23303	DXS0419i	AB145213.1
D4S0048i	AB131569.1	D6S406	Z23304	DXS0420i	AB145214.1
D4S0049i	AB131571.1	D6S408	Z23496	DXS0421i	AB145215.1
D4S0052i	AB131578.1	D6S409	Z23506	DXS0422i	AB129357.1

D4S0053i	AB131579.1	D6S410	Z23533	DXS0423i	AB145216.1
D4S0054i	AB131582.1	D6S417	Z23623	DXS0424i	AB145217.1
D4S0055i	AB131583.1	D6S418	Z23321	DXS0425i	AB145218.1
D4S0056i	AB131584.1	D6S419	Z23653	DXS0426i	AB145219.1
D4S0057i	AB131589.1	D6S421	Z23676	DXS0427i	AB145220.1
D4S0058i	AB131591.1	D6S423	Z23720	DXS0428i	AB145221.1
D4S0059i	AB131592.1	D6S424	Z23723	DXS0429i	AB129358.1
D4S0060i	AB131594.1	D6S425	Z23751	DXS0430i	AB145222.1
D4S0061i	AB131595.1	D6S426	Z23755	DXS0431i	AB145223.1
D4S0062i	AB131597.1	D6S428	Z23776	DXS0432i	AB145224.1
D4S0063i	AB131600.1	D6S429	Z23792	DXS0433i	AB145225.1
D4S0064i	AB131602.1	D6S430	Z23821	DXS0434i	AB145226.1

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D4S0065i	AB131603.1	D6S433	Z23851	DXS0435i	AB145227.1
D4S0066i	AB131604.1	D6S437	Z23892	DXS0436i	AB145228.1
D4S0067i	AB131605.1	D6S439	Z23903	DXS0437i	AB145229.1
D4S0068i	AB131606.1	D6S443	Z23977	DXS0438i	AB145230.1
D4S0073i	AB131613.1	D6S444	Z23988	DXS0439i	AB145231.1
D4S0074i	AB131614.1	D6S448	Z24122	DXS0440i	AB145232.1
D4S0075i	AB131616.1	D6S449	Z24179	DXS0441i	AB145233.1
D4S0077i	AB131619.1	D6S451	Z24195	DXS0442i	AB145234.1
D4S0078i	AB131620.1	D6S452	Z24209	DXS0443i	AB145235.1
D4S0079i	AB131622.1	D6S454	Z24215	DXS0444i	AB145236.1
D4S0081i	AB131626.1	D6S455	Z24239	DXS0445i	AB145237.1
D4S0082i	AB131629.1	D6S458	Z24305	DXS0446i	AB145238.1

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D4S0084i	AB131632.1	D6S459	Z24320	DXS0447i	AB145239.1
D4S0085i	AB131633.1	D6S460	Z24323	DXS0448i	AB145240.1
D4S0086i	AB131636.1	D6S461	Z24329	DXS0449i	AB145241.1
D4S0087i	AB131638.1	D6S463	Z24349	DXS0450i	AB145242.1
D4S0088i	AB131641.1	D6S464	Z24380	DXS0451i	AB145243.1
D4S0089i	AB131642.1	D6S465	Z24388	DXS0452i	AB145244.1
D4S0091i	AB131645.1	D6S469	Z24581	DXS0453i	AB145245.1
D4S0092i	AB131646.1	D6S470	Z24589	DXS0454i	AB145246.1
D4S0093i	AB131648.1	D6S471	Z24622	DXS0455i	AB145247.1
D4S0094i	AB131651.1	D6S472	Z24633	DXS0456i	AB145248.1
D4S0095i	AB131652.1	D6S473	Z24652	DXS0457i	AB145249.1
D4S0096i	AB131653.1	D6S474	G08540	DXS0458i	AB145250.1

D4S0097i	AB131654.1	D6S476	G08536	DXS0459i	AB145251.1
D4S0098i	AB131655.1	D6S492	G08517	DXS0460i	AB145252.1
D4S0099i	AB131656.1	D6S498	G09116	DXS0461i	AB145253.1
D4S0100i	AB131658.1	D6S976	Z50960	DXS0462i	AB145254.1
D4S0101i	AB131659.1	D6S978	Z51688	DXS0463i	AB145255.1
D4S0102i	AB131662.1	D6S994	Z67814	DXS0464i	AB145256.1
D4S0104i	AB131666.1	D7S0001i	AB129858.1	DXS0465i	AB129359.1
D4S0105i	AB131669.1	D7S0002i	AB129859.1	DXS0466i	AB145257.1
D4S0106i	AB131670.1	D7S0003i	AB129862.1	DXS0467i	AB145258.1
D4S0107i	AB131671.1	D7S0004i	AB129863.1	DXS0468i	AB145259.1
D4S0108i	AB131673.1	D7S0005i	AB129869.1	DXS0469i	AB145260.1
D4S0109i	AB131674.1	D7S0006i	AB129870.1	DXS0470i	AB145261.1

D4S0110i	AB131675.1	D7S0007i	AB129874.1	DXS0471i	AB145262.1
D4S0111i	AB131676.1	D7S0008i	AB129875.1	DXS0472i	AB145263.1
D4S0112i	AB131677.1	D7S0009i	AB129880.1	DXS0473i	AB145264.1
D4S0113i	AB136501.1	D7S0010i	AB129885.1	DXS0474i	AB145265.1
D4S0114i	AB136510.1	D7S0011i	AB129886.1	DXS0475i	AB145266.1
D4S0115i	AB136514.1	D7S0012i	AB129891.1	DXS0476i	AB145267.1
D4S0116i	AB136515.1	D7S0013i	AB129893.1	DXS0477i	AB145268.1
D4S0117i	AB136518.1	D7S0014i	AB129897.1	DXS0478i	AB145269.1
D4S0118i	AB136522.1	D7S0015i	AB129898.1	DXS0479i	AB145270.1
D4S0120i	AB136530.1	D7S0016i	AB129899.1	DXS0482i	AB145273.1
D4S0121i	AB136531.1	D7S0017i	AB129900.1	DXS0483i	AB145274.1
D4S0123i	AB136533.1	D7S0018i	AB129904.1	DXS0484i	AB145275.1

D4S0125i	AB136535.1	D7S0019i	AB129905.1	DXS0485i	AB145276.1
D4S0126i	AB136536.1	D7S0020i	AB129906.1	DXS0486i	AB145277.1
D4S0127i	AB136537.1	D7S0021i	AB129919.1	DXS0487i	AB145278.1
D4S0128i	AB136538.1	D7S0022i	AB129924.1	DXS0488i	AB145279.1
D4S0129i	AB136539.1	D7S0023i	AB130345.1	DXS0489i	AB145280.1
D4S0130i	AB136540.1	D7S0024i	AB130350.1	DXS0490i	AB145281.1
D4S0131i	AB136541.1	D7S0025i	AB130351.1	DXS0492i	AB145283.1
D4S0132i	AB136542.1	D7S0026i	AB130354.1	DXS0493i	AB145285.1
D4S0133i	AB136543.1	D7S0027i	AB130357.1	DXS0494i	AB145286.1
D4S0134i	AB136544.1	D7S0028i	AB130359.1	DXS0495i	AB145287.1
D4S0136i	AB136546.1	D7S0030i	AB130362.1	DXS0496i	AB145288.1
D4S0137i	AB136547.1	D7S0031i	AB130366.1	DXS0497i	AB145289.1

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D4S0138i	AB136548.1	D7S0032i	AB130369.1	DXS0498i	AB145290.1
D4S0139i	AB136549.1	D7S0033i	AB130370.1	DXS0499i	AB145291.1
D4S0140i	AB136550.1	D7S0034i	AB130372.1	DXS0500i	AB145292.1
D4S0141i	AB136551.1	D7S0035i	AB129044.1	DXS0501i	AB129360.1
D4S0143i	AB136553.1	D7S0036i	AB130373.1	DXS0502i	AB145293.1
D4S0144i	AB136554.1	D7S0038i	AB130375.1	DXS0503i	AB145294.1
D4S0145i	AB136555.1	D7S0039i	AB130376.1	DXS0504i	AB145295.1
D4S0146i	AB136556.1	D7S0042i	AB130381.1	DXS0505i	AB145296.1
D4S0147i	AB136558.1	D7S0043i	AB130384.1	DXS0506i	AB145297.1
D4S0148i	AB136559.1	D7S0044i	AB130386.1	DXS0507i	AB129361.1
D4S0151i	AB136563.1	D7S0045i	AB130387.1	DXS0508i	AB145298.1
D4S0152i	AB136564.1	D7S0046i	AB130388.1	DXS0509i	AB145299.1



D4S0153i	AB136565.1	D7S0047i	AB130392.1	DXS0510i	AB145300.1
D4S0154i	AB136568.1	D7S0048i	AB130393.1	DXS0511i	AB145301.1
D4S0155i	AB136569.1	D7S0049i	AB130394.1	DXS0512i	AB145302.1
D4S0156i	AB136570.1	D7S0051i	AB130399.1	DXS0513i	AB145303.1
D4S0157i	AB136571.1	D7S0052i	AB130400.1	DXS0514i	AB145304.1
D4S0158i	AB136574.1	D7S0053i	AB130402.1	DXS0515i	AB145305.1
D4S0159i	AB136575.1	D7S0054i	AB130404.1	DXS0516i	AB145306.1
D4S0160i	AB136577.1	D7S0055i	AB130405.1	DXS0518i	AB145308.1
D4S0161i	AB136578.1	D7S0056i	AB130407.1	DXS0519i	AB145309.1
D4S0162i	AB136579.1	D7S0057i	AB130409.1	DXS0521i	AB145311.1
D4S0163i	AB136580.1	D7S0058i	AB130410.1	DXS0522i	AB145312.1
D4S0164i	AB136581.1	D7S0059i	AB130411.1	DXS0523i	AB145313.1

D4S0165i	AB136582.1	D7S0060i	AB130412.1	DXS0524i	AB145314.1
D4S0166i	AB136583.1	D7S0061i	AB130413.1	DXS0525i	AB146042.1
D4S0167i	AB136584.1	D7S0062i	AB130415.1	DXS0526i	AB146048.1
D4S0168i	AB136585.1	D7S0063i	AB130416.1	DXS0527i	AB146649.1
D4S0169i	AB136587.1	D7S0064i	AB130422.1	DXS0528i	AB146653.1
D4S0170i	AB136588.1	D7S0065i	AB130424.1	DXS0530i	AB146681.1
D4S0171i	AB136589.1	D7S0066i	AB130425.1	DXS0531i	AB146682.1
D4S0172i	AB136590.1	D7S0067i	AB130427.1	DXS0532i	AB146683.1
D4S0173i	AB136591.1	D7S0068i	AB130428.1	DXS0533i	AB146684.1
D4S0174i	AB136592.1	D7S0069i	AB130432.1	DXS0534i	AB146685.1
D4S0175i	AB136593.1	D7S0070i	AB130434.1	DXS0535i	AB146686.1
D4S0176i	AB136594.1	D7S0071i	AB129045.1	DXS0537i	AB146688.1

D4S0177i	AB136596.1	D7S0072i	AB130437.1	DXS0538i	AB146689.1
D4S0178i	AB136597.1	D7S0073i	AB130442.1	DXS0539i	AB146690.1
D4S0179i	AB136598.1	D7S0074i	AB130444.1	DXS0540i	AB146691.1
D4S0180i	AB136600.1	D7S0075i	AB130445.1	DXS0541i	AB146692.1
D4S0181i	AB136601.1	D7S0076i	AB130447.1	DXS0542i	AB146693.1
D4S0182i	AB136602.1	D7S0077i	AB130450.1	DXS0543i	AB146694.1
D4S0183i	AB136603.1	D7S0078i	AB130451.1	DXS0544i	AB146695.1
D4S0184i	AB136604.1	D7S0079i	AB130452.1	DXS0545i	AB146696.1
D4S0185i	AB136605.1	D7S0080i	AB130453.1	DXS0546i	AB146697.1
D4S0186i	AB136607.1	D7S0081i	AB130455.1	DXS0548i	AB146699.1
D4S0187i	AB136608.1	D7S0082i	AB129046.1	DXS0549i	AB146700.1
D4S0188i	AB136609.1	D7S0084i	AB130460.1	DXS0550i	AB146701.1

D4S0189i	AB136612.1	D7S0086i	AB130463.1	DXS0551i	AB146702.1
D4S0190i	AB136613.1	D7S0087i	AB130465.1	DXS0552i	AB146703.1
D4S0191i	AB136614.1	D7S0088i	AB130466.1	DXS0553i	AB146704.1
D4S0192i	AB136615.1	D7S0089i	AB130468.1	DXS0555i	AB146706.1
D4S0193i	AB136619.1	D7S0090i	AB130469.1	DXS0556i	AB146707.1
D4S0194i	AB136620.1	D7S0091i	AB130472.1	DXS0557i	AB146708.1
D4S0195i	AB136621.1	D7S0092i	AB130474.1	DXS0558i	AB146709.1
D4S0196i	AB136623.1	D7S0094i	AB130479.1	DXS0559i	AB146710.1
D4S0197i	AB129171.1	D7S0095i	AB130481.1	DXS0560i	AB146711.1
D4S0198i	AB136625.1	D7S0096i	AB130483.1	DXS0561i	AB146712.1
D4S0199i	AB136626.1	D7S0098i	AB130485.1	DXS0562i	AB146713.1
D4S0200i	AB136627.1	D7S0099i	AB130489.1	DXS0563i	AB146714.1

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D4S0201i	AB136629.1	D7S0100i	AB130492.1	DXS0564i	AB146715.1
D4S0202i	AB136630.1	D7S0101i	AB130493.1	DXS0565i	AB147274.1
D4S0203i	AB136632.1	D7S0102i	AB130499.1	DXS0566i	AB147275.1
D4S0204i	AB136634.1	D7S0103i	AB130500.1	DXS0567i	AB147281.1
D4S0205i	AB136636.1	D7S0104i	AB130501.1	DXS0568i	AB147282.1
D4S0206i	AB136637.1	D7S0105i	AB130503.1	DXS0570i	AB147284.1
D4S0207i	AB136638.1	D7S0106i	AB130505.1	DXS0571i	AB147287.1
D4S0208i	AB136639.1	D7S0107i	AB130506.1	DXS0573i	AB147289.1
D4S0209i	AB136640.1	D7S0108i	AB130507.1	DXS0574i	AB147293.1
D4S0210i	AB136642.1	D7S0109i	AB130508.1	DXS0575i	AB147298.1
D4S0211i	AB136644.1	D7S0110i	AB130513.1	DXS0576i	AB147299.1
D4S0212i	AB136645.1	D7S0111i	AB130520.1	DXS0577i	AB147300.1

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D4S0213i	AB136646.1	D7S0112i	AB130522.1	DXS0578i	AB147304.1
D4S0215i	AB136648.1	D7S0113i	AB130523.1	DXS0579i	AB147305.1
D4S0216i	AB136649.1	D7S0114i	AB130526.1	DXS0580i	AB147306.1
D4S0217i	AB136650.1	D7S0115i	AB130529.1	DXS0582i	AB147313.1
D4S0218i	AB136651.1	D7S0116i	AB130530.1	DXS0583i	AB147319.1
D4S0219i	AB136652.1	D7S0117i	AB130536.1	DXS0584i	AB147320.1
D4S0220i	AB136653.1	D7S0120i	AB130541.1	DXS0585i	AB147321.1
D4S0221i	AB136654.1	D7S0121i	AB130542.1	DXS0586i	AB147322.1
D4S0222i	AB136655.1	D7S0122i	AB130544.1	DXS1001	Z17117
D4S0223i	AB136656.1	D7S0123i	AB130517.1	DXS1002	Z17131
D4S0224i	AB136657.1	D7S0125i	AB130547.1	DXS1003	Z17201
D4S0225i	AB136658.1	D7S0126i	AB130548.1	DXS1036	Z23325

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D4S0226i	AB136659.1	D7S0127i	AB130550.1	DXS1043	Z23384
D4S0228i	AB136661.1	D7S0128i	AB130551.1	DXS1044	Z51007
D4S0229i	AB136662.1	D7S0129i	AB130552.1	DXS1047	Z23398
D4S0230i	AB136663.1	D7S0130i	AB130555.1	DXS1049	Z51033
D4S0231i	AB136664.1	D7S0131i	AB130556.1	DXS1050	Z51037
D4S0232i	AB136666.1	D7S0132i	AB130557.1	DXS1052	Z51056
D4S0233i	AB136669.1	D7S0133i	AB130558.1	DXS1053	Z23417
D4S0234i	AB136670.1	D7S0134i	AB130560.1	DXS1055	Z23428
D4S0235i	AB136671.1	D7S0135i	AB130561.1	DXS1056	Z51117
D4S0236i	AB136672.1	D7S0136i	AB130562.1	DXS1058	Z23512
D4S0237i	AB136673.1	D7S0137i	AB129050.1	DXS1059	Z23536
D4S0238i	AB136674.1	D7S0138i	AB130566.1	DXS1060	Z17254

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D4S0239i	AB136675.1	D7S0139i	AB130568.1	DXS1061	Z23554
D4S0240i	AB136676.1	D7S0140i	AB130570.1	DXS1062	Z23578
D4S0241i	AB136733.1	D7S0141i	AB130571.1	DXS1065	Z23693
D4S0242i	AB136794.1	D7S0142i	AB129051.1	DXS1067	Z23710
D4S0243i	AB137611.1	D7S0143i	AB130559.1	DXS1068	Z17268
D4S0244i	AB137694.1	D7S0144i	AB130575.1	DXS1072	Z23963
D4S0246i	AB137698.1	D7S0145i	AB130577.1	DXS1073	Z51243
D4S0247i	AB137699.1	D7S0146i	AB130578.1	DXS1190	Z23459
D4S0249i	AB137702.1	D7S0147i	AB130583.1	DXS1191	Z23464
D4S0250i	AB137703.1	D7S0148i	AB130584.1	DXS1192	Z23471
D4S0251i	AB137704.1	D7S0149i	AB129052.1	DXS1196	Z23316
D4S0252i	AB137705.1	D7S0150i	AB130587.1	DXS1197	Z23323



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D4S0253i	AB137706.1	D7S0151i	AB130591.1	DXS1199	Z23808
D4S0254i	AB137707.1	D7S0152i	AB130592.1	DXS1200	Z23824
D4S0255i	AB137708.1	D7S0153i	AB130597.1	DXS1201	Z23834
D4S0256i	AB137709.1	D7S0154i	AB130598.1	DXS1202	Z23848
D4S0257i	AB137710.1	D7S0155i	AB130599.1	DXS1204	Z23359
D4S0258i	AB137711.1	D7S0156i	AB130602.1	DXS1205	Z23875
D4S0259i	AB137712.1	D7S0157i	AB130604.1	DXS1206	Z23914
D4S0260i	AB137714.1	D7S0158i	AB130605.1	DXS1208	Z23944
D4S0261i	AB137715.1	D7S0159i	AB130606.1	DXS1211	Z23962
D4S0262i	AB137716.1	D7S0162i	AB130610.1	DXS1212	Z23991
D4S0263i	AB137717.1	D7S0163i	AB130611.1	DXS1214	Z24023
D4S0264i	AB137719.1	D7S0164i	AB130612.1	DXS1215	Z24061

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D4S0265i	AB137720.1	D7S0165i	AB131318.1	DXS1216	Z24062
D4S0266i	AB137723.1	D7S0166i	AB132350.1	DXS1217	Z24072
D4S0267i	AB137724.1	D7S0167i	AB132351.1	DXS1218	Z24112
D4S0268i	AB137726.1	D7S0168i	AB132352.1	DXS1220	Z24226
D4S0269i	AB137727.1	D7S0169i	AB132353.1	DXS1223	Z24283
D4S0270i	AB137730.1	D7S0170i	AB132358.1	DXS1224	Z24300
D4S0271i	AB137740.1	D7S0171i	AB132362.1	DXS1225	Z24302
D4S0272i	AB137741.1	D7S0172i	AB132363.1	DXS1227	Z24335
D4S0273i	AB138337.1	D7S0173i	AB132366.1	DXS1229	Z24444
D4S0274i	AB129200.1	D7S0174i	AB132367.1	DXS1231	Z24557
D4S0275i	AB138813.1	D7S0175i	AB132369.1	DXS1232	Z24624
D4S0276i	AB139093.1	D7S0176i	AB132370.1	DXS6725	Z67862

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D4S0277i	AB141408.1	D7S0177i	AB132371.1	DXS6741	Z67791
D4S0278i	AB141394.1	D7S0179i	AB132377.1	DXS6747	Z67835
D4S0279i	AB141409.1	D7S0180i	AB132379.1	DXS6749	Z67845
D4S0280i	AB141410.1	D7S0181i	AB132381.1	DXS6750	Z67850
D4S0281i	AB141415.1	D7S0182i	AB132382.1	DXS6751	Z67852
D4S0282i	AB141416.1	D7S0183i	AB132384.1	DXS6789	G08105
D4S0283i	AB141418.1	D7S0184i	AB132387.1	DXS6792	G08456
D4S0284i	AB141419.1	D7S0185i	AB132389.1	DXS6797	G08100
D4S0285i	AB141420.1	D7S0186i	AB132390.1	DXS6800	G09609
D4S0286i	AB141421.1	D7S0187i	AB132392.1	DXS6801	G09742
D4S0287i	AB141424.1	D7S0188i	AB132394.1	DXS6803	G08107
D4S0288i	AB141425.1	D7S0189i	AB132396.1	DXS6805	G09655

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D4S0289i	AB141426.1	D7S0190i	AB132397.1	DXS6806	G08109
D4S0290i	AB129255.1	D7S0191i	AB132400.1	DXS6809	G08112
D4S0291i	AB141427.1	D7S0192i	AB132401.1	DXS6810	G09983
D4S0292i	AB141428.1	D7S0193i	AB132403.1	DXS7100	Z51361
D4S0293i	AB141429.1	D7S0194i	AB132404.1	DXS7102	Z51592
D4S0295i	AB141433.1	D7S0195i	AB132405.1	DXS7105	Z52291
D4S0296i	AB141434.1	D7S0196i	AB132407.1	DXS7106	Z51424
D4S0297i	AB141435.1	D7S0197i	AB132411.1	DXS7107	Z52405
D4S0298i	AB141436.1	D7S0198i	AB129090.1	DXS7108	Z52387
D4S0299i	AB141437.1	D7S0199i	AB132414.1	DXS7109	Z52684
D4S0300i	AB141438.1	D7S0200i	AB132416.1	DXS7110	Z51918
D4S0301i	AB141439.1	D7S0201i	AB132418.1	DXS7163	Z51286

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D4S0302i	AB141440.1	D7S0202i	AB132419.1	DXS7592	Z52689
D4S0303i	AB141441.1	D7S0203i	AB132421.1	DXS7593	Z52977
D4S0304i	AB141442.1	D7S0204i	AB132422.1	DXS8009	Z52129
D4S0305i	AB141443.1	D7S0205i	AB132425.1	DXS8010	Z52140
D4S0306i	AB141444.1	D7S0206i	AB132427.1	DXS8011	Z52146
D4S0307i	AB141446.1	D7S0207i	AB132428.1	DXS8014	Z52191
D4S0308i	AB141447.1	D7S0208i	AB132429.1	DXS8015	Z52202
D4S0309i	AB129256.1	D7S0209i	AB132430.1	DXS8016	Z52257
D4S0310i	AB141448.1	D7S0210i	AB132431.1	DXS8017	Z52277
D4S0311i	AB141449.1	D7S0211i	AB132432.1	DXS8020	Z52328
D4S0312i	AB141450.1	D7S0212i	AB132433.1	DXS8022	Z52341
D4S0313i	AB141451.1	D7S0213i	AB132434.1	DXS8023	Z52342

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D4S0314i	AB141452.1	D7S0214i	AB132436.1	DXS8024	Z52347
D4S0315i	AB141453.1	D7S0215i	AB132438.1	DXS8025	Z52376
D4S0316i	AB141454.1	D7S0216i	AB132439.1	DXS8026	Z52378
D4S0317i	AB129257.1	D7S0217i	AB132440.1	DXS8027	Z52399
D4S0318i	AB141455.1	D7S0218i	AB132442.1	DXS8028	Z52514
D4S0319i	AB141456.1	D7S0219i	AB132443.1	DXS8030	Z52545
D4S0320i	AB141457.1	D7S0220i	AB132444.1	DXS8031	Z52575
D4S0321i	AB141458.1	D7S0221i	AB132446.1	DXS8032	Z52614
D4S0322i	AB141459.1	D7S0222i	AB132447.1	DXS8034	Z52704
D4S0323i	AB141460.1	D7S0223i	AB132448.1	DXS8035	Z52705
D4S0324i	AB141461.1	D7S0224i	AB132451.1	DXS8036	Z52747
D4S0325i	AB141462.1	D7S0225i	AB132454.1	DXS8038	Z52788

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D4S0326i	AB141463.1	D7S0226i	AB132456.1	DXS8042	Z53060
D4S0327i	AB141464.1	D7S0227i	AB132460.1	DXS8043	Z53101
D4S0328i	AB141465.1	D7S0228i	AB132461.1	DXS8045	Z53197
D4S0329i	AB141466.1	D7S0229i	AB132462.1	DXS8047	Z53277
D4S0331i	AB141468.1	D7S0230i	AB132463.1	DXS8048	Z53297
D4S0332i	AB141469.1	D7S0231i	AB132466.1	DXS8049	Z53304
D4S0333i	AB141470.1	D7S0232i	AB132467.1	DXS8050	Z51164
D4S0334i	AB141471.1	D7S0233i	AB132468.1	DXS8051	Z53331
D4S0335i	AB141472.1	D7S0234i	AB132469.1	DXS8052	Z53334
D4S0336i	AB141473.1	D7S0235i	AB132472.1	DXS8054	Z53362
D4S0337i	AB141474.1	D7S0236i	AB132473.1	DXS8056	Z53374
D4S0338i	AB141475.1	D7S0237i	AB132475.1	DXS8058	Z53388

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D4S0340i	AB141478.1	D7S0238i	AB132477.1	DXS8059	Z53446
D4S0342i	AB141480.1	D7S0239i	AB132478.1	DXS8061	Z53487
D4S0343i	AB141481.1	D7S0240i	AB132479.1	DXS8065	Z53571
D4S0344i	AB141482.1	D7S0241i	AB132480.1	DXS8066	Z53661
D4S0345i	AB141483.1	D7S0242i	AB132481.1	DXS8067	Z53664
D4S0346i	AB141484.1	D7S0243i	AB132483.1	DXS8068	Z53680
D4S0347i	AB141485.1	D7S0244i	AB132484.1	DXS8069	Z53687
D4S0348i	AB141486.1	D7S0245i	AB132485.1	DXS8070	Z53714
D4S0349i	AB141487.1	D7S0246i	AB132486.1	DXS8071	Z53738
D4S0350i	AB141488.1	D7S0247i	AB132487.1	DXS8074	Z53854
D4S0351i	AB141489.1	D7S0248i	AB132489.1	DXS8076	Z53867
D4S0352i	AB141476.1	D7S0249i	AB132490.1	DXS8077	Z51234



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D4S0353i	AB141491.1	D7S0250i	AB132493.1	DXS8078	Z51238
D4S0355i	AB141493.1	D7S0251i	AB132494.1	DXS8082	Z54025
D4S0356i	AB141494.1	D7S0252i	AB132495.1	DXS8083	Z54041
D4S0358i	AB141496.1	D7S0253i	AB132496.1	DXS8084	Z54048
D4S0359i	AB141497.1	D7S0255i	AB132500.1	DXS8085	Z51274
D4S0360i	AB141498.1	D7S0256i	AB132501.1	DXS8086	Z51331
D4S0361i	AB141500.1	D7S0258i	AB132504.1	DXS8087	Z51345
D4S0362i	AB141501.1	D7S0259i	AB132506.1	DXS8090	Z51454
D4S0363i	AB141502.1	D7S0260i	AB132508.1	DXS8091	Z51484
D4S0364i	AB141503.1	D7S0261i	AB132509.1	DXS8092	Z51548
D4S0366i	AB141506.1	D7S0262i	AB132512.1	DXS8093	Z51589
D4S0367i	AB141507.1	D7S0264i	AB132514.1	DXS8094	Z51596

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D4S0368i	AB141509.1	D7S0265i	AB132515.1	DXS8096	Z51652
D4S0369i	AB141510.1	D7S0266i	AB132516.1	DXS8097	Z51680
D4S0370i	AB141511.1	D7S0267i	AB129091.1	DXS8098	Z51695
D4S0371i	AB129258.1	D7S0268i	AB132519.1	DXS8101	Z51775
D4S0372i	AB141512.1	D7S0269i	AB132520.1	DXS8102	Z51802
D4S0373i	AB141513.1	D7S0270i	AB132522.1	DXS8103	Z51819
D4S0375i	AB141515.1	D7S0271i	AB132523.1	DXS8105	Z51887
D4S0376i	AB141516.1	D7S0272i	AB132524.1	DXS8107	Z51895
D4S0377i	AB141517.1	D7S0273i	AB132525.1	DXS8110	Z51977
D4S0379i	AB141519.1	D7S0274i	AB132527.1	DXS8112	Z51996
D4S0380i	AB141520.1	D7S0275i	AB132532.1	DXS983	Z17246
D4S0381i	AB141521.1	D7S0276i	AB132533.1	DXS986	Z16606

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D4S0382i	AB141522.1	D7S0277i	AB132535.1	DXS987	Z16615
D4S0383i	AB141523.1	D7S0278i	AB132536.1	DXS988	Z16626
D4S0384i	AB141524.1	D7S0279i	AB132537.1	DXS989	Z16642
D4S0385i	AB141525.1	D7S0280i	AB132538.1	DXS990	Z16647
D4S0386i	AB141527.1	D7S0281i	AB132540.1	DXS991	Z16680
D4S0389i	AB141532.1	D7S0282i	AB132541.1	DXS992	Z16803
D4S0390i	AB141535.1	D7S0283i	AB132543.1	DXS993	Z16898
D4S0391i	AB141536.1	D7S0284i	AB132545.1	DXS996	Z16971
D4S0392i	AB141537.1	D7S0285i	AB132546.1	DXS997	Z16983
D4S0393i	AB141538.1	D7S0286i	AB132547.1	DXS998	Z17020
D4S0394i	AB141539.1	D7S0287i	AB132550.1	DXS999	Z17059
D4S0395i	AB142962.1	D7S0288i	AB132551.1	DXYS228X,DXYS228Y	Z53349

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D4S0396i	AB144020.1	D7S0289i	AB132552.1	DXYS231X,DXYS231Y	Z52242
D4S0397i	AB144043.1	D7S0290i	AB132553.1	DXYS232X,DXYS232Y	Z24667
D4S0398i	AB144044.1	D7S0291i	AB132554.1	DYS0005i	AB139113.1
D4S0399i	AB144045.1	D7S0292i	AB132555.1	DYS0007i	AB139134.1
D4S0400i	AB144046.1	D7S0293i	AB132556.1	DYS0034i	AB144360.1
D4S0401i	AB144047.1	D7S0294i	AB132559.1	DYS0035i	AB145417.1
D4S0402i	AB144048.1	D7S0295i	AB132560.1	DYS0036i	AB145628.1
D4S0403i	AB144049.1	D7S0296i	AB132561.1	DYS288	L18261
D4S0404i	AB144051.1	D7S0297i	AB132562.1	DYS389	G09600
D4S0405i	AB144052.1	D7S0298i	AB132563.1	DYS390	G09611
D4S0406i	AB144053.1	D7S0299i	AB132564.1	DYS392	G09867
D4S0407i	AB144054.1	D7S0300i	AB132565.1	G07788	G07788

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D4S0408i	AB144055.1	D7S0301i	AB132566.1	G07791	G07791
D4S0409i	AB144056.1	D7S0302i	AB132568.1	G07795	G07795
D4S0410i	AB144057.1	D7S0303i	AB132570.1	G07809	G07809
D4S0411i	AB144058.1	D7S0304i	AB132572.1	G07830	G07830
D4S0412i	AB144059.1	D7S0305i	AB132573.1	G07831	G07831
D4S0413i	AB144060.1	D7S0306i	AB132574.1	G07839	G07839
D4S0414i	AB129327.1	D7S0307i	AB132575.1	G07846	G07846
D4S0415i	AB144061.1	D7S0308i	AB132576.1	G07850	G07850
D4S0416i	AB144062.1	D7S0310i	AB132580.1	G07853	G07853
D4S0417i	AB144063.1	D7S0311i	AB132581.1	G07854	G07854
D4S0418i	AB144064.1	D7S0312i	AB132584.1	G07856	G07856
D4S0420i	AB144066.1	D7S0313i	AB132586.1	G07886	G07886

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D4S0421i	AB144067.1	D7S0314i	AB132587.1	G07900	G07900
D4S0422i	AB144068.1	D7S0315i	AB132588.1	G07908	G07908
D4S0423i	AB144069.1	D7S0316i	AB132589.1	G07910	G07910
D4S0424i	AB144070.1	D7S0317i	AB132590.1	G07911	G07911
D4S0425i	AB144071.1	D7S0318i	AB132591.1	G07912	G07912
D4S0426i	AB144072.1	D7S0319i	AB132592.1	G07925	G07925
D4S0427i	AB144073.1	D7S0320i	AB132596.1	G07937	G07937
D4S0428i	AB144074.1	D7S0321i	AB132597.1	G07955	G07955
D4S0429i	AB144075.1	D7S0322i	AB132599.1	G07958	G07958
D4S0430i	AB144076.1	D7S0323i	AB132601.1	G07962	G07962
D4S0431i	AB144077.1	D7S0324i	AB129093.1	G07969	G07969
D4S0432i	AB144078.1	D7S0326i	AB132603.1	G07986	G07986

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D4S0433i	AB144079.1	D7S0327i	AB132605.1	G07990	G07990
D4S0434i	AB144080.1	D7S0328i	AB132606.1	G07996	G07996
D4S0435i	AB144081.1	D7S0329i	AB132607.1	G08003	G08003
D4S0436i	AB144082.1	D7S0330i	AB132608.1	G08005	G08005
D4S0437i	AB144083.1	D7S0331i	AB132612.1	G08006	G08006
D4S0438i	AB144084.1	D7S0332i	AB132615.1	G08007	G08007
D4S0439i	AB144085.1	D7S0333i	AB132617.1	G08008	G08008
D4S0440i	AB144086.1	D7S0334i	AB132618.1	G08009	G08009
D4S0441i	AB144087.1	D7S0335i	AB129094.1	G08010	G08010
D4S0442i	AB144088.1	D7S0336i	AB132620.1	G08012	G08012
D4S0443i	AB144089.1	D7S0337i	AB132624.1	G08015	G08015
D4S0444i	AB144090.1	D7S0338i	AB132628.1	G08033	G08033

D4S0445i	AB144091.1	D7S0339i	AB132629.1	G08034	G08034
D4S0446i	AB144092.1	D7S0340i	AB132630.1	G08036	G08036
D4S0447i	AB144093.1	D7S0341i	AB132631.1	G08038	G08038
D4S0448i	AB144095.1	D7S0343i	AB132635.1	G08045	G08045
D4S0449i	AB144096.1	D7S0344i	AB132637.1	G08053	G08053
D4S0450i	AB144097.1	D7S0345i	AB132638.1	G08057	G08057
D4S0451i	AB144098.1	D7S0346i	AB132640.1	G08058	G08058
D4S0452i	AB144099.1	D7S0347i	AB132642.1	G08073	G08073
D4S0453i	AB144100.1	D7S0349i	AB132647.1	G08076	G08076
D4S0454i	AB144101.1	D7S0350i	AB132650.1	G08079	G08079
D4S0456i	AB144103.1	D7S0351i	AB132651.1	G08110	G08110
D4S0457i	AB144104.1	D7S0352i	AB132652.1	G08111	G08111



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D4S0458i	AB144105.1	D7S0353i	AB132653.1	G08113	G08113
D4S0459i	AB144106.1	D7S0354i	AB132654.1	G08117	G08117
D4S0460i	AB144107.1	D7S0356i	AB132659.1	G08120	G08120
D4S0461i	AB144108.1	D7S0357i	AB132662.1	G08149	G08149
D4S0462i	AB144109.1	D7S0358i	AB132663.1	G08150	G08150
D4S0463i	AB144110.1	D7S0359i	AB132664.1	G08157	G08157
D4S0464i	AB144111.1	D7S0360i	AB132665.1	G08158	G08158
D4S0465i	AB144112.1	D7S0361i	AB132666.1	G08161	G08161
D4S0466i	AB144113.1	D7S0362i	AB132667.1	G08164	G08164
D4S0467i	AB144114.1	D7S0363i	AB132669.1	G08170	G08170
D4S0468i	AB144115.1	D7S0364i	AB132670.1	G08172	G08172
D4S0469i	AB144116.1	D7S0365i	AB132671.1	G08173	G08173

Hypertension 77354 Supplement

D4S0470i	AB144117.1	D7S0366i	AB132672.1	G08180	G08180
D4S0471i	AB144118.1	D7S0367i	AB132673.1	G08182	G08182
D4S0472i	AB144119.1	D7S0368i	AB132674.1	G08186	G08186
D4S0473i	AB144120.1	D7S0369i	AB132678.1	G08187	G08187
D4S0474i	AB144121.1	D7S0370i	AB129096.1	G08188	G08188
D4S0475i	AB144122.1	D7S0372i	AB132684.1	G08189	G08189
D4S0476i	AB144123.1	D7S0373i	AB132691.1	G08191	G08191
D4S0477i	AB144124.1	D7S0374i	AB132692.1	G08222	G08222
D4S0478i	AB144125.1	D7S0375i	AB132693.1	G08231	G08231
D4S0479i	AB144126.1	D7S0376i	AB132694.1	G08247	G08247
D4S0480i	AB144127.1	D7S0378i	AB132696.1	G08257	G08257
D4S0481i	AB144128.1	D7S0379i	AB132698.1	G08269	G08269

Hypertension 77354 Supplement

D4S0482i	AB144129.1	D7S0380i	AB132699.1	G08274	G08274
D4S0484i	AB144131.1	D7S0381i	AB132700.1	G08276	G08276
D4S0485i	AB144132.1	D7S0382i	AB132701.1	G08278	G08278
D4S0486i	AB144133.1	D7S0383i	AB132702.1	G08279	G08279
D4S0487i	AB144134.1	D7S0384i	AB132706.1	G08280	G08280
D4S0488i	AB144135.1	D7S0386i	AB132709.1	G08281	G08281
D4S0489i	AB144136.1	D7S0387i	AB132710.1	G08285	G08285
D4S0490i	AB129328.1	D7S0388i	AB132712.1	G08287	G08287
D4S0492i	AB144138.1	D7S0389i	AB132713.1	G08288	G08288
D4S0493i	AB144139.1	D7S0390i	AB132715.1	G08291	G08291
D4S0494i	AB144140.1	D7S0391i	AB132717.1	G08294	G08294
D4S0495i	AB144141.1	D7S0392i	AB132718.1	G08300	G08300

Hypertension 77354 Supplement

D4S0496i	AB144142.1	D7S0393i	AB132721.1	G08330	G08330
D4S0497i	AB144143.1	D7S0394i	AB132723.1	G08331	G08331
D4S0498i	AB144144.1	D7S0395i	AB132724.1	G08344	G08344
D4S0499i	AB144145.1	D7S0396i	AB132726.1	G08351	G08351
D4S0500i	AB144146.1	D7S0397i	AB132728.1	G08358	G08358
D4S0501i	AB144147.1	D7S0398i	AB132730.1	G08366	G08366
D4S0502i	AB144148.1	D7S0399i	AB132732.1	G08369	G08369
D4S0503i	AB144149.1	D7S0400i	AB132733.1	G08371	G08371
D4S0504i	AB144150.1	D7S0401i	AB132734.1	G08377	G08377
D4S0505i	AB144151.1	D7S0402i	AB132735.1	G08379	G08379
D4S0506i	AB144152.1	D7S0403i	AB132736.1	G08386	G08386
D4S0507i	AB144153.1	D7S0404i	AB132738.1	G08387	G08387

Hypertension 77354 Supplement

D4S0508i	AB144154.1	D7S0405i	AB132741.1	G08389	G08389
D4S0509i	AB144155.1	D7S0406i	AB132742.1	G08390	G08390
D4S0510i	AB144156.1	D7S0407i	AB132745.1	G08391	G08391
D4S0511i	AB144157.1	D7S0408i	AB132747.1	G08393	G08393
D4S0512i	AB144158.1	D7S0409i	AB132748.1	G08396	G08396
D4S0513i	AB144159.1	D7S0410i	AB132749.1	G08399	G08399
D4S0514i	AB144160.1	D7S0411i	AB132750.1	G08401	G08401
D4S0515i	AB129329.1	D7S0412i	AB132752.1	G08458	G08458
D4S0516i	AB144161.1	D7S0413i	AB132758.1	G08461	G08461
D4S0517i	AB144163.1	D7S0414i	AB132759.1	G08462	G08462
D4S0518i	AB144164.1	D7S0415i	AB132761.1	G08463	G08463
D4S0519i	AB144165.1	D7S0416i	AB132762.1	G08470	G08470

Hypertension 77354 Supplement

D4S0520i	AB144166.1	D7S0417i	AB132763.1	G08474	G08474
D4S0521i	AB144167.1	D7S0418i	AB132765.1	G08476	G08476
D4S0522i	AB144168.1	D7S0419i	AB129099.1	G08478	G08478
D4S0523i	AB144169.1	D7S0420i	AB132768.1	G08480	G08480
D4S0524i	AB144170.1	D7S0421i	AB132769.1	G08521	G08521
D4S0525i	AB144171.1	D7S0422i	AB132771.1	G08522	G08522
D4S0526i	AB144172.1	D7S0423i	AB132772.1	G08543	G08543
D4S0527i	AB144173.1	D7S0424i	AB132773.1	G08561	G08561
D4S0528i	AB144174.1	D7S0425i	AB132775.1	G08562	G08562
D4S0529i	AB144175.1	D7S0426i	AB132776.1	G08564	G08564
D4S0530i	AB144176.1	D7S0428i	AB132781.1	G08565	G08565
D4S0531i	AB144177.1	D7S0429i	AB132782.1	G08566	G08566

Hypertension 77354 Supplement

D4S0532i	AB144178.1	D7S0430i	AB132784.1	G08569	G08569
D4S0533i	AB144179.1	D7S0431i	AB132786.1	G08570	G08570
D4S0534i	AB144180.1	D7S0432i	AB132787.1	G08581	G08581
D4S0535i	AB144181.1	D7S0433i	AB132788.1	G08591	G08591
D4S0536i	AB144182.1	D7S0434i	AB132789.1	G08595	G08595
D4S0537i	AB144183.1	D7S0435i	AB132791.1	G08610	G08610
D4S0538i	AB144184.1	D7S0436i	AB132792.1	G08615	G08615
D4S0539i	AB144185.1	D7S0437i	AB132794.1	G08627	G08627
D4S0540i	AB144186.1	D7S0438i	AB132795.1	G08635	G08635
D4S0541i	AB144187.1	D7S0439i	AB132796.1	G08637	G08637
D4S0542i	AB144188.1	D7S0440i	AB132797.1	G08639	G08639
D4S0543i	AB144189.1	D7S0441i	AB132801.1	G08687	G08687

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D4S0544i	AB144190.1	D7S0442i	AB132802.1	G08694	G08694
D4S0545i	AB144191.1	D7S0443i	AB132804.1	G08702	G08702
D4S0546i	AB144162.1	D7S0444i	AB132808.1	G08710	G08710
D4S0547i	AB144192.1	D7S0445i	AB132810.1	G08717	G08717
D4S0548i	AB144193.1	D7S0446i	AB132811.1	G08747	G08747
D4S0549i	AB144194.1	D7S0447i	AB132813.1	G08748	G08748
D4S0550i	AB144195.1	D7S0448i	AB132814.1	G08753	G08753
D4S0551i	AB144196.1	D7S0449i	AB132815.1	G08755	G08755
D4S0552i	AB144197.1	D7S0450i	AB132816.1	G08756	G08756
D4S0553i	AB144198.1	D7S0451i	AB132817.1	G08757	G08757
D4S0554i	AB144199.1	D7S0452i	AB132818.1	G08758	G08758
D4S0555i	AB144200.1	D7S0453i	AB132820.1	G08762	G08762



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D4S0556i	AB144201.1	D7S0454i	AB132822.1	G08780	G08780
D4S0557i	AB144202.1	D7S0455i	AB132823.1	G08785	G08785
D4S0558i	AB144203.1	D7S0456i	AB132824.1	G08786	G08786
D4S0559i	AB144204.1	D7S0457i	AB132825.1	G08806	G08806
D4S0560i	AB144205.1	D7S0458i	AB132827.1	G08808	G08808
D4S0561i	AB144206.1	D7S0459i	AB132828.1	G08809	G08809
D4S0562i	AB144207.1	D7S0460i	AB132830.1	G08810	G08810
D4S0563i	AB144208.1	D7S0461i	AB132831.1	G08811	G08811
D4S0564i	AB144209.1	D7S0462i	AB132832.1	G08812	G08812
D4S0565i	AB144210.1	D7S0463i	AB132834.1	G08813	G08813
D4S0566i	AB144211.1	D7S0464i	AB132835.1	G08814	G08814
D4S0567i	AB144212.1	D7S0465i	AB132836.1	G08815	G08815

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D4S0568i	AB144213.1	D7S0466i	AB132837.1	G08816	G08816
D4S0569i	AB144214.1	D7S0467i	AB132838.1	G08819	G08819
D4S0570i	AB144215.1	D7S0468i	AB129101.1	G08850	G08850
D4S0571i	AB144216.1	D7S0469i	AB132839.1	G08851	G08851
D4S0572i	AB144217.1	D7S0470i	AB132841.1	G08862	G08862
D4S0573i	AB144218.1	D7S0471i	AB132842.1	G08865	G08865
D4S0574i	AB144219.1	D7S0472i	AB132844.1	G08880	G08880
D4S0575i	AB144220.1	D7S0473i	AB132845.1	G08884	G08884
D4S0576i	AB144221.1	D7S0474i	AB132846.1	G08888	G08888
D4S0577i	AB144222.1	D7S0475i	AB132847.1	G08891	G08891
D4S0578i	AB144223.1	D7S0476i	AB132849.1	G08893	G08893
D4S0579i	AB144224.1	D7S0477i	AB132852.1	G08895	G08895

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D4S0580i	AB144225.1	D7S0479i	AB132855.1	G08896	G08896
D4S0581i	AB144226.1	D7S0480i	AB132857.1	G08897	G08897
D4S0582i	AB144227.1	D7S0481i	AB132859.1	G08922	G08922
D4S0583i	AB144228.1	D7S0482i	AB132860.1	G08938	G08938
D4S0584i	AB144229.1	D7S0484i	AB132865.1	G08947	G08947
D4S0585i	AB144230.1	D7S0485i	AB132866.1	G08949	G08949
D4S0587i	AB144232.1	D7S0486i	AB132867.1	G08959	G08959
D4S0588i	AB144233.1	D7S0487i	AB132868.1	G08960	G08960
D4S0589i	AB144234.1	D7S0488i	AB132869.1	G08961	G08961
D4S0590i	AB144235.1	D7S0489i	AB132870.1	G08964	G08964
D4S0591i	AB144236.1	D7S0491i	AB132874.1	G08968	G08968
D4S0592i	AB144237.1	D7S0492i	AB132875.1	G08970	G08970

Hypertension 77354 Supplement

D4S0593i	AB144238.1	D7S0493i	AB132877.1	G08971	G08971
D4S0594i	AB144239.1	D7S0494i	AB132879.1	G08975	G08975
D4S0595i	AB144240.1	D7S0495i	AB132882.1	G08976	G08976
D4S0596i	AB144241.1	D7S0496i	AB132883.1	G09015	G09015
D4S0597i	AB144243.1	D7S0497i	AB132888.1	G09018	G09018
D4S0598i	AB144244.1	D7S0498i	AB129102.1	G09019	G09019
D4S0599i	AB129330.1	D7S0499i	AB132889.1	G09021	G09021
D4S0600i	AB144245.1	D7S0500i	AB132890.1	G09023	G09023
D4S0601i	AB144246.1	D7S0501i	AB132893.1	G09025	G09025
D4S0602i	AB144247.1	D7S0502i	AB132894.1	G09039	G09039
D4S0603i	AB144248.1	D7S0503i	AB132895.1	G09042	G09042
D4S0604i	AB144250.1	D7S0504i	AB132896.1	G09055	G09055

Hypertension 77354 Supplement

D4S0605i	AB144251.1	D7S0505i	AB132897.1	G09062	G09062
D4S0606i	AB144252.1	D7S0506i	AB132898.1	G09065	G09065
D4S0607i	AB144253.1	D7S0507i	AB132901.1	G09069	G09069
D4S0608i	AB144254.1	D7S0508i	AB132902.1	G09070	G09070
D4S0609i	AB144255.1	D7S0509i	AB132905.1	G09072	G09072
D4S0610i	AB129331.1	D7S0510i	AB132908.1	G09118	G09118
D4S0611i	AB144256.1	D7S0511i	AB132909.1	G09125	G09125
D4S0612i	AB144257.1	D7S0512i	AB132910.1	G09136	G09136
D4S0613i	AB144258.1	D7S0513i	AB132911.1	G09139	G09139
D4S0614i	AB144259.1	D7S0514i	AB132912.1	G09151	G09151
D4S0616i	AB144261.1	D7S0515i	AB132913.1	G09153	G09153
D4S0617i	AB144262.1	D7S0516i	AB132914.1	G09165	G09165

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D4S0618i	AB144263.1	D7S0517i	AB132915.1	G09168	G09168
D4S0619i	AB144264.1	D7S0518i	AB132916.1	G09186	G09186
D4S0620i	AB144265.1	D7S0519i	AB132918.1	G09189	G09189
D4S0621i	AB144266.1	D7S0520i	AB132919.1	G09194	G09194
D4S0622i	AB144267.1	D7S0521i	AB132920.1	G09205	G09205
D4S0623i	AB144272.1	D7S0522i	AB132921.1	G09211	G09211
D4S0624i	AB144273.1	D7S0523i	AB132924.1	G09214	G09214
D4S0625i	AB144277.1	D7S0524i	AB132927.1	G09235	G09235
D4S0626i	AB144278.1	D7S0525i	AB132929.1	G09249	G09249
D4S0627i	AB129332.1	D7S0526i	AB132930.1	G09256	G09256
D4S0628i	AB144280.1	D7S0527i	AB132931.1	G09261	G09261
D4S0629i	AB144283.1	D7S0528i	AB132932.1	G09266	G09266

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D4S0631i	AB144285.1	D7S0529i	AB132934.1	G09288	G09288
D4S0632i	AB129333.1	D7S0530i	AB132936.1	G09314	G09314
D4S0633i	AB144287.1	D7S0531i	AB132922.1	G09329	G09329
D4S0634i	AB144288.1	D7S0532i	AB132939.1	G09363	G09363
D4S0635i	AB144289.1	D7S0533i	AB132941.1	G09364	G09364
D4S0636i	AB144290.1	D7S0534i	AB132942.1	G09376	G09376
D4S0637i	AB145444.1	D7S0535i	AB132944.1	G09389	G09389
D4S0638i	AB145445.1	D7S0536i	AB132945.1	G09399	G09399
D4S0639i	AB145446.1	D7S0537i	AB132946.1	G09407	G09407
D4S0640i	AB145449.1	D7S0538i	AB132947.1	G09409	G09409
D4S0641i	AB145452.1	D7S0539i	AB132950.1	G09458	G09458
D4S0642i	AB145453.1	D7S0540i	AB132951.1	G09471	G09471

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D4S0643i	AB145454.1	D7S0541i	AB132952.1	G09478	G09478
D4S0644i	AB129027.1	D7S0542i	AB132955.1	G09555	G09555
D4S0645i	AB145458.1	D7S0543i	AB132958.1	G09558	G09558
D4S0646i	AB145459.1	D7S0544i	AB132960.1	G09578	G09578
D4S0647i	AB145460.1	D7S0545i	AB132961.1	G09582	G09582
D4S0648i	AB145461.1	D7S0546i	AB132962.1	G09593	G09593
D4S0649i	AB145465.1	D7S0547i	AB132964.1	G09606	G09606
D4S0650i	AB145466.1	D7S0548i	AB132967.1	G09612	G09612
D4S0651i	AB145470.1	D7S0549i	AB132968.1	G09631	G09631
D4S0652i	AB145471.1	D7S0550i	AB132970.1	G09722	G09722
D4S0653i	AB145472.1	D7S0551i	AB132971.1	G09840	G09840
D4S0654i	AB145473.1	D7S0552i	AB132972.1	G09841	G09841



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D4S0655i	AB145474.1	D7S0553i	AB132975.1	G09845	G09845
D4S0656i	AB145475.1	D7S0554i	AB132979.1	G09907	G09907
D4S0657i	AB145476.1	D7S0555i	AB132980.1	G09915	G09915
D4S0658i	AB145477.1	D7S0557i	AB132982.1	G09917	G09917
D4S0659i	AB145478.1	D7S0558i	AB132984.1	G09937	G09937
D4S0660i	AB145479.1	D7S0559i	AB132986.1	G09959	G09959
D4S0661i	AB145480.1	D7S0560i	AB132987.1	G09981	G09981
D4S0662i	AB145481.1	D7S0561i	AB132990.1	G09987	G09987
D4S0663i	AB145482.1	D7S0562i	AB132991.1	G09988	G09988
D4S0664i	AB145483.1	D7S0563i	AB132992.1	G09992	G09992
D4S0665i	AB145484.1	D7S0564i	AB132993.1	G09993	G09993
D4S0666i	AB145485.1	D7S0565i	AB132997.1	G09994	G09994

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D4S0667i	AB145486.1	D7S0566i	AB132998.1	G09996	G09996
D4S0668i	AB145487.1	D7S0567i	AB132999.1	G09999	G09999
D4S0669i	AB145488.1	D7S0568i	AB133000.1	G10000	G10000
D4S0670i	AB145489.1	D7S0569i	AB133002.1	G10003	G10003
D4S0671i	AB145490.1	D7S0570i	AB133003.1	G10010	G10010
D4S0672i	AB145491.1	D7S0571i	AB133004.1	G10015	G10015
D4S0673i	AB145492.1	D7S0572i	AB133005.1	G10031	G10031
D4S0674i	AB145493.1	D7S0573i	AB133006.1	G10035	G10035
D4S0675i	AB145494.1	D7S0574i	AB133007.1	G10037	G10037
D4S0677i	AB145496.1	D7S0575i	AB133008.1	G10039	G10039
D4S0678i	AB145497.1	D7S0576i	AB133010.1	G10043	G10043
D4S0679i	AB145498.1	D7S0577i	AB133013.1	G10045	G10045

Hypertension 77354 Supplement

D4S0680i	AB145499.1	D7S0578i	AB133014.1	G10047	G10047
D4S0681i	AB145500.1	D7S0579i	AB133016.1	G10049	G10049
D4S0682i	AB145501.1	D7S0580i	AB133017.1	G10050	G10050
D4S0684i	AB145503.1	D7S0581i	AB133018.1	G10051	G10051
D4S0685i	AB145504.1	D7S0582i	AB133022.1	G10052	G10052
D4S0686i	AB145505.1	D7S0583i	AB133024.1	G10056	G10056
D4S0687i	AB145506.1	D7S0584i	AB133025.1	G10057	G10057
D4S0688i	AB145507.1	D7S0585i	AB133026.1	G10060	G10060
D4S0689i	AB145508.1	D7S0586i	AB133027.1	G10062	G10062
D4S0690i	AB145509.1	D7S0587i	AB133028.1	G10063	G10063
D4S0691i	AB145510.1	D7S0588i	AB133029.1	G10067	G10067
D4S0692i	AB145511.1	D7S0589i	AB133030.1	G10070	G10070

Hypertension 77354 Supplement

D4S0693i	AB145516.1	D7S0590i	AB133031.1	G10074	G10074
D4S0695i	AB145518.1	D7S0591i	AB133032.1	G10075	G10075
D4S0696i	AB145519.1	D7S0592i	AB133033.1	G10080	G10080
D4S0697i	AB145527.1	D7S0593i	AB133035.1	G10083	G10083
D4S0698i	AB145534.1	D7S0594i	AB133036.1	G10084	G10084
D4S0699i	AB145537.1	D7S0595i	AB133037.1	G10085	G10085
D4S0700i	AB145538.1	D7S0596i	AB133039.1	G10088	G10088
D4S0701i	AB145541.1	D7S0597i	AB133040.1	G10091	G10091
D4S0702i	AB146364.1	D7S0598i	AB133041.1	G10092	G10092
D4S0703i	AB146365.1	D7S0599i	AB133042.1	G10093	G10093
D4S0704i	AB146366.1	D7S0600i	AB133043.1	G10095	G10095
D4S0705i	AB146367.1	D7S0601i	AB133045.1	G10096	G10096

Hypertension 77354 Supplement

D4S0706i	AB146368.1	D7S0602i	AB133047.1	G10097	G10097
D4S0707i	AB146369.1	D7S0603i	AB133048.1	G10109	G10109
D4S0708i	AB146371.1	D7S0604i	AB133049.1	G10111	G10111
D4S0710i	AB146376.1	D7S0605i	AB133050.1	G10114	G10114
D4S0711i	AB146377.1	D7S0606i	AB133051.1	G10117	G10117
D4S0712i	AB146378.1	D7S0607i	AB133052.1	G10118	G10118
D4S0713i	AB146379.1	D7S0608i	AB133053.1	G10119	G10119
D4S0714i	AB146382.1	D7S0609i	AB133054.1	G10138	G10138
D4S0715i	AB146383.1	D7S0610i	AB133055.1	G10143	G10143
D4S0716i	AB146384.1	D7S0611i	AB133057.1	G10153	G10153
D4S0717i	AB146387.1	D7S0612i	AB133058.1	G10157	G10157
D4S0718i	AB146388.1	D7S0613i	AB133060.1	G10158	G10158

Hypertension 77354 Supplement

D4S0719i	AB146389.1	D7S0614i	AB133061.1	G10162	G10162
D4S0720i	AB146393.1	D7S0615i	AB133062.1	G10164	G10164
D4S0721i	AB146394.1	D7S0616i	AB133063.1	G10172	G10172
D4S0722i	AB146395.1	D7S0617i	AB133064.1	G10173	G10173
D4S0723i	AB146396.1	D7S0619i	AB133066.1	G10183	G10183
D4S0724i	AB146398.1	D7S0620i	AB133067.1	G10188	G10188
D4S0725i	AB146399.1	D7S0621i	AB133068.1	G10189	G10189
D4S0726i	AB146400.1	D7S0622i	AB129105.1	G10192	G10192
D4S0727i	AB146403.1	D7S0623i	AB133073.1	G10204	G10204
D4S0728i	AB146404.1	D7S0624i	AB133074.1	G10221	G10221
D4S0730i	AB146406.1	D7S0625i	AB133075.1	G10233	G10233
D4S0731i	AB129379.1	D7S0626i	AB133076.1	G10238	G10238

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D4S0732i	AB146407.1	D7S0627i	AB133080.1	G10243	G10243
D4S0733i	AB146408.1	D7S0628i	AB133081.1	G10263	G10263
D4S0734i	AB146409.1	D7S0629i	AB133083.1	G10264	G10264
D4S0735i	AB146410.1	D7S0630i	AB133084.1	G10265	G10265
D4S0736i	AB146411.1	D7S0631i	AB133088.1	G10267	G10267
D4S0738i	AB146413.1	D7S0632i	AB133089.1	G10268	G10268
D4S0739i	AB146414.1	D7S0633i	AB133091.1	G10269	G10269
D4S0740i	AB146415.1	D7S0634i	AB133095.1	G12394	G12394
D4S0741i	AB146416.1	D7S0635i	AB133096.1	G12395	G12395
D4S0742i	AB146417.1	D7S0636i	AB133097.1	G12397	G12397
D4S0743i	AB146418.1	D7S0637i	AB133098.1	G12398	G12398
D4S0744i	AB146419.1	D7S0638i	AB133100.1	G12399	G12399

D4S0745i	AB146420.1	D7S0639i	AB133102.1	G12405	G12405
D4S0746i	AB146421.1	D7S0640i	AB133104.1	G12406	G12406
D4S0748i	AB146423.1	D7S0641i	AB133105.1	G12410	G12410
D4S0749i	AB146424.1	D7S0642i	AB133106.1	G12412	G12412
D4S0750i	AB146425.1	D7S0643i	AB133107.1	G12413	G12413
D4S0751i	AB146426.1	D7S0644i	AB133110.1	G12414	G12414
D4S0753i	AB146427.1	D7S0645i	AB133112.1	G12416	G12416
D4S0754i	AB146428.1	D7S0646i	AB133113.1	G12417	G12417
D4S0755i	AB146429.1	D7S0647i	AB133114.1	G12420	G12420
D4S0756i	AB146430.1	D7S0648i	AB133115.1	G12423	G12423
D4S0757i	AB146432.1	D7S0649i	AB133116.1	G12424	G12424
D4S0758i	AB146433.1	D7S0650i	AB133117.1	G12425	G12425



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D4S0759i	AB146434.1	D7S0651i	AB133122.1	G12426	G12426
D4S0761i	AB146435.1	D7S0652i	AB129107.1	G12427	G12427
D4S0762i	AB146436.1	D7S0653i	AB133126.1	G12428	G12428
D4S0763i	AB146437.1	D7S0654i	AB133127.1	G12429	G12429
D4S0764i	AB146439.1	D7S0655i	AB133129.1	G12431	G12431
D4S0765i	AB146440.1	D7S0657i	AB133134.1	G12432	G12432
D4S0766i	AB146441.1	D7S0658i	AB133135.1	G12437	G12437
D4S0767i	AB146442.1	D7S0659i	AB133136.1	HUM575UT02	L26589
D4S0768i	AB146445.1	D7S0660i	AB133137.1	HUMUT1004	L18530
D4S0769i	AB146446.1	D7S0661i	AB133139.1	HUMUT1040	L17753
D4S0770i	AB146447.1	D7S0662i	AB133140.1	HUMUT1049	L17756
D4S0771i	AB146448.1	D7S0663i	AB133141.1	HUMUT1057	L18014

D4S0773i	AB146450.1	D7S0666i	AB133151.1	HUMUT1066B	L31156
D4S0774i	AB146451.1	D7S0667i	AB133155.1	HUMUT1079	L17761
D4S0775i	AB146452.1	D7S0668i	AB133157.1	HUMUT1091	L15538
D4S0776i	AB146453.1	D7S0669i	AB133159.1	HUMUT1115	L18564
D4S0777i	AB146454.1	D7S0670i	AB133160.1	HUMUT1151	L18568
D4S0779i	AB146456.1	D7S0671i	AB133161.1	HUMUT1152	L18569
D4S0780i	AB146457.1	D7S0672i	AB133164.1	HUMUT1158	L18570
D4S0781i	AB146458.1	D7S0673i	AB133165.1	HUMUT1171	L18572
D4S0782i	AB147072.1	D7S0674i	AB133169.1	HUMUT1207	L15539
D4S0783i	AB147073.1	D7S0675i	AB133170.1	HUMUT1208	L18536
D4S0784i	AB147074.1	D7S0676i	AB133171.1	HUMUT1209	L15540
D4S0785i	AB147075.1	D7S0677i	AB133172.1	HUMUT1211	L17764

D4S0786i	AB147076.1	D7S0678i	AB133173.1	HUMUT1219	L17766
D4S0787i	AB147077.1	D7S0679i	AB133180.1	HUMUT1222	L18538
D4S0788i	AB147078.1	D7S0680i	AB133181.1	HUMUT1223	L17768
D4S0789i	AB147079.1	D7S0682i	AB133183.1	HUMUT1224	L18539
D4S0790i	AB147080.1	D7S0683i	AB133187.1	HUMUT1228	L15543
D4S0791i	AB147081.1	D7S0684i	AB129108.1	HUMUT1232	L15544
D4S0792i	AB147083.1	D7S0685i	AB133189.1	HUMUT1234	L15545
D4S0793i	AB147084.1	D7S0686i	AB133191.1	HUMUT1235	L15546
D4S0794i	AB147085.1	D7S0687i	AB133198.1	HUMUT1237	L18541
D4S0795i	AB147086.1	D7S0688i	AB133199.1	HUMUT1239	L16371
D4S0796i	AB147087.1	D7S0689i	AB133202.1	HUMUT1254	L17779
D4S0798i	AB147089.1	D7S0690i	AB133203.1	HUMUT1258	L16377

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D4S0799i	AB147090.1	D7S0691i	AB133204.1	HUMUT1264	L16378
D4S0801i	AB147092.1	D7S0692i	AB133205.1	HUMUT1265	L16379
D4S0802i	AB147093.1	D7S0693i	AB133209.1	HUMUT1266	L17782
D4S0803i	AB147094.1	D7S0694i	AB133210.1	HUMUT1283	L17784
D4S0804i	AB147095.1	D7S0695i	AB133211.1	HUMUT1286	L16381
D4S0805i	AB129393.1	D7S0696i	AB133212.1	HUMUT1298	L16383
D4S0806i	AB147096.1	D7S0697i	AB133213.1	HUMUT1312	L16386
D4S0807i	AB147097.1	D7S0698i	AB133214.1	HUMUT1329	L16388
D4S0808i	AB147098.1	D7S0699i	AB133216.1	HUMUT1334	L17799
D4S0809i	AB147100.1	D7S0701i	AB133220.1	HUMUT1337	L18679
D4S0810i	AB129394.1	D7S0702i	AB133221.1	HUMUT1339	L17879
D4S0811i	AB147101.1	D7S0703i	AB133224.1	HUMUT1340	L16390

D4S0812i	AB147102.1	D7S0704i	AB133225.1	HUMUT1341	L16391
D4S0814i	AB147104.1	D7S0705i	AB133226.1	HUMUT1344	L18693
D4S0815i	AB147105.1	D7S0706i	AB133227.1	HUMUT1349	L17880
D4S0817i	AB147107.1	D7S0707i	AB133229.1	HUMUT1355	L17803
D4S0818i	AB147108.1	D7S0708i	AB133232.1	HUMUT1366	L16394
D4S0819i	AB147109.1	D7S0709i	AB133233.1	HUMUT1373	L18744
D4S0820i	AB147110.1	D7S0710i	AB133236.1	HUMUT1377	L17807
D4S0822i	AB147112.1	D7S0711i	AB133239.1	HUMUT1378	L16396
D4S0823i	AB147118.1	D7S0712i	AB133240.1	HUMUT1382	L17883
D4S0824i	AB147119.1	D7S0713i	AB133242.1	HUMUT1383	L17884
D4S0825i	AB147124.1	D7S0714i	AB129109.1	HUMUT1393	L17808
D4S0826i	AB147125.1	D7S0715i	AB133245.1	HUMUT1398	L16399

D4S0827i	AB147130.1	D7S0716i	AB133246.1	HUMUT1418	L17815
D4S0828i	AB147131.1	D7S0717i	AB133248.1	HUMUT1422	L17817
D4S0829i	AB147132.1	D7S0718i	AB133249.1	HUMUT1441B	L30906
D4S0830i	AB147133.1	D7S0719i	AB133251.1	HUMUT1451B	L30872
D4S0831i	AB147139.1	D7S0720i	AB133252.1	HUMUT1459	L17825
D4S0832i	AB129396.1	D7S0721i	AB133254.1	HUMUT1464	L18686
D4S0833i	AB147140.1	D7S0722i	AB133255.1	HUMUT1466	L16400
D4S0834i	AB147149.1	D7S0723i	AB133256.1	HUMUT1467	L16401
D4S0835i	AB147154.1	D7S0724i	AB133257.1	HUMUT1469	L17886
D4S0836i	AB147155.1	D7S0725i	AB133259.1	HUMUT1474	L18687
D4S0837i	AB147163.1	D7S0726i	AB133247.1	HUMUT1492	L18688
D4S0838i	AB147164.1	D7S0727i	AB133264.1	HUMUT1508	L16402

D4S1534	Z23406	D7S0728i	AB133265.1	HUMUT1521	L17847
D4S1535	Z23424	D7S0729i	AB133266.1	HUMUT1523	L17848
D4S1536	Z23426	D7S0730i	AB133268.1	HUMUT1529	L17850
D4S1537	Z23300	D7S0731i	AB133271.1	HUMUT1537	L17852
D4S1538	Z23301	D7S0732i	AB133275.1	HUMUT1544	L17856
D4S1539	Z23446	D7S0733i	AB133276.1	HUMUT1550B	L30886
D4S1540	Z23448	D7S0735i	AB133287.1	HUMUT1556	L17889
D4S1541	Z23302	D7S0736i	AB133289.1	HUMUT158	L29359
D4S1542	Z23454	D7S0737i	AB133290.1	HUMUT1581	L18743
D4S1543	Z23463	D7S0738i	AB133292.1	HUMUT1595	L17867
D4S1544	Z23476	D7S0739i	AB133294.1	HUMUT1606	L17869
D4S1545	Z23484	D7S0740i	AB133295.1	HUMUT1625	L17871

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D4S1546	Z23504	D7S0741i	AB133303.1	HUMUT1653	L18708
D4S1548	Z23520	D7S0742i	AB133304.1	HUMUT1670	L17894
D4S1549	Z23310	D7S0743i	AB133309.1	HUMUT1674	L16405
D4S1552	Z23593	D7S0745i	AB129111.1	HUMUT1685	L18191
D4S1553	Z23596	D7S0746i	AB133317.1	HUMUT1688	L30661
D4S1554	Z23661	D7S0747i	AB133323.1	HUMUT1690	L18745
D4S1555	Z23673	D7S0748i	AB133327.1	HUMUT1692	L16409
D4S1556	Z23698	D7S0749i	AB133329.1	HUMUT1699	L16410
D4S1557	Z23331	D7S0750i	AB133332.1	HUMUT1705	L16412
D4S1558	Z23746	D7S0751i	AB133335.1	HUMUT1708	L16413
D4S1559	Z23754	D7S0752i	AB133336.1	HUMUT1719	L16415
D4S1560	Z23785	D7S0753i	AB134164.1	HUMUT1731	L16417



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D4S1561	Z23790	D7S0754i	AB135454.1	HUMUT1772	L16419
D4S1562	Z23798	D7S0755i	AB136738.1	HUMUT1833	L17895
D4S1563	Z23804	D7S0756i	AB136743.1	HUMUT1837	L30923
D4S1566	Z23293	D7S0757i	AB136859.1	HUMUT186	L36685
D4S1567	Z23364	D7S0758i	AB136994.1	HUMUT1882	L17916
D4S1568	Z23294	D7S0759i	AB136998.1	HUMUT1885	L18081
D4S1569	Z23387	D7S0760i	AB136999.1	HUMUT1901	L17919
D4S1570	Z23399	D7S0761i	AB137002.1	HUMUT1917	L18015
D4S1571	Z23871	D7S0762i	AB137005.1	HUMUT1919	L17923
D4S1572	Z23876	D7S0763i	AB137006.1	HUMUT1936	L18738
D4S1574	Z23896	D7S0764i	AB137009.1	HUMUT1950	L16420
D4S1577	Z23949	D7S0765i	AB137013.1	HUMUT1959	L18713

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D4S1578	Z23953	D7S0766i	AB137014.1	HUMUT1962	L17927
D4S1579	Z23955	D7S0767i	AB137016.1	HUMUT1974	L17932
D4S1581	Z23989	D7S0768i	AB137017.1	HUMUT1988	L17938
D4S1582	Z24030	D7S0769i	AB137018.1	HUMUT1994	L17941
D4S1583	Z24031	D7S0771i	AB137020.1	HUMUT1997	L18716
D4S1584	Z24036	D7S0773i	AB137028.1	HUMUT2007B	L30943
D4S1586	Z24066	D7S0774i	AB137029.1	HUMUT2031	L18719
D4S1587	Z24070	D7S0775i	AB138096.1	HUMUT2032	L17952
D4S1588	Z24085	D7S0776i	AB138397.1	HUMUT2039	L18741
D4S1589	Z24090	D7S0777i	AB138428.1	HUMUT2042	L17956
D4S1593	Z24127	D7S0778i	AB139125.1	HUMUT2054	L18720
D4S1594	Z24129	D7S0779i	AB139135.1	HUMUT2069	L18038

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D4S1595	Z24146	D7S0780i	AB139403.1	HUMUT2079	L18723
D4S1598	Z24165	D7S0781i	AB139404.1	HUMUT2081	L18039
D4S1599	Z24169	D7S0782i	AB139408.1	HUMUT2084	L17966
D4S1600	Z24189	D7S0783i	AB139410.1	HUMUT2092	L18724
D4S1601	Z24208	D7S0784i	AB139413.1	HUMUT2094	L17972
D4S1602	Z24234	D7S0785i	AB139414.1	HUMUT2100	L18726
D4S1603	Z24246	D7S0786i	AB139416.1	HUMUT2103	L17974
D4S1604	Z24247	D7S0787i	AB139417.1	HUMUT2104	L18060
D4S1606	Z24274	D7S0789i	AB140124.1	HUMUT2106	L17976
D4S1607	Z24291	D7S0791i	AB141208.1	HUMUT211	L29911
D4S1608	Z24316	D7S0792i	AB141620.1	HUMUT2127	L18040
D4S1611	Z24355	D7S0793i	AB141621.1	HUMUT2139	L18083

D4S1612	Z24356	D7S0794i	AB141623.1	HUMUT2150	L17981
D4S1613	Z24414	D7S0795i	AB141624.1	HUMUT2152	L18727
D4S1614	Z24429	D7S0796i	AB141625.1	HUMUT2159	L17983
D4S1615	Z24442	D7S0797i	AB141626.1	HUMUT216	L29917
D4S1616	Z24562	D7S0798i	AB141599.1	HUMUT2186	L17986
D4S1617	Z24575	D7S0799i	AB141627.1	HUMUT2203	L17989
D4S1619	Z24604	D7S0800i	AB141628.1	HUMUT2211	L16421
D4S1625	G08328	D7S0801i	AB141633.1	HUMUT2218	L17997
D4S1630	G08400	D7S0802i	AB141634.1	HUMUT2219	L17998
D4S1647	G09195	D7S0803i	AB141635.1	HUMUT2234	L18062
D4S1649	G09162	D7S0804i	AB141638.1	HUMUT224	L29924
D4S2346	Z51165	D7S0806i	AB141644.1	HUMUT2269	L18006

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D4S2347	Z67825	D7S0807i	AB141645.1	HUMUT2271	L18729
D4S2348	Z67827	D7S0808i	AB141646.1	HUMUT2299	L18735
D4S2349	Z67765	D7S0809i	AB141650.1	HUMUT2305	L18019
D4S2361	G08322	D7S0810i	AB141651.1	HUMUT2330	L18088
D4S2362	G08325	D7S0811i	AB141652.1	HUMUT2336	L18021
D4S2365	G08329	D7S0812i	AB141653.1	HUMUT2346	L18022
D4S2373	G08359	D7S0813i	AB141656.1	HUMUT2347	L18046
D4S2374	G08361	D7S0814i	AB141658.1	HUMUT2351	L18047
D4S2379	G08404	D7S0815i	AB141659.1	HUMUT2358	L18024
D4S2381	G08405	D7S0816i	AB141660.1	HUMUT2399	L18027
D4S2382	G08408	D7S0817i	AB144750.1	HUMUT2402	L18732
D4S2383	G08307	D7S0819i	AB144770.1	HUMUT2404	L18071

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D4S2386	G08310	D7S0820i	AB144771.1	HUMUT2419	L18028
D4S2389	G08313	D7S0821i	AB144772.1	HUMUT2422	L18737
D4S2390	G08314	D7S0822i	AB144773.1	HUMUT2427	L18029
D4S2392	G08316	D7S0823i	AB144774.1	HUMUT2447	L18098
D4S2393	G08317	D7S0824i	AB144775.1	HUMUT246B	L29941
D4S2397	G08320	D7S0825i	AB144776.1	HUMUT2523	L18033
D4S2399	G08324	D7S0826i	AB144777.1	HUMUT2527	L18054
D4S2401	G09204	D7S0827i	AB144778.1	HUMUT2543	L18078
D4S2402	G09207	D7S0828i	AB144779.1	HUMUT265	L29365
D4S2405	G09391	D7S0829i	AB144780.1	HUMUT266B	L29947
D4S2406	G09379	D7S0830i	AB144781.1	HUMUT278	L29954
D4S2408	G08341	D7S0831i	AB144782.1	HUMUT405	L16244

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D4S2410	G08346	D7S0832i	AB144783.1	HUMUT406	L18257
D4S2412	G09145	D7S0833i	AB144784.1	HUMUT411	L18260
D4S2416	G09196	D7S0834i	AB144785.1	HUMUT415	L18262
D4S2420	G08374	D7S0835i	AB144786.1	HUMUT420	L18265
D4S2422	G09756	D7S0836i	AB129347.1	HUMUT426	L18270
D4S2427	G09972	D7S0838i	AB144788.1	HUMUT428	L18272
D4S2429	G09984	D7S0839i	AB144789.1	HUMUT430	L18273
D4S2460	Z51929	D7S0840i	AB144790.1	HUMUT431	L16246
D4S2461	Z53760	D7S0842i	AB144792.1	HUMUT433B	L29976
D4S2906	Z52045	D7S0844i	AB144794.1	HUMUT436	L16249
D4S2908	Z52062	D7S0845i	AB144795.1	HUMUT439	L16252
D4S2910	Z51011	D7S0846i	AB144796.1	HUMUT444	L18276

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D4S2912	Z52175	D7S0847i	AB144797.1	HUMUT446B	L29980
D4S2913	Z52236	D7S0848i	AB144798.1	HUMUT457	L18282
D4S2914	Z52247	D7S0849i	AB144799.1	HUMUT463	L16257
D4S2916	Z52292	D7S0850i	AB144800.1	HUMUT474	L18292
D4S2917	Z52308	D7S0851i	AB144801.1	HUMUT475	L18293
D4S2918	Z52329	D7S0852i	AB144802.1	HUMUT478B	L29992
D4S2919	Z52346	D7S0853i	AB144803.1	HUMUT479	L18295
D4S2921	Z52419	D7S0854i	AB144804.1	HUMUT480B	L29994
D4S2922	Z51051	D7S0855i	AB144805.1	HUMUT487	L16264
D4S2923	Z52459	D7S0856i	AB129348.1	HUMUT488	L18296
D4S2924	Z52460	D7S0857i	AB144806.1	HUMUT498	L18302
D4S2925	Z51055	D7S0858i	AB144807.1	HUMUT499	L18303



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D4S2927	Z50895	D7S0859i	AB144808.1	HUMUT5000	L18504
D4S2928	Z52577	D7S0860i	AB144809.1	HUMUT5006	L18507
D4S2930	Z52598	D7S0861i	AB144810.1	HUMUT5009B	L30978
D4S2931	Z51083	D7S0862i	AB144811.1	HUMUT5011	L18509
D4S2932	Z52672	D7S0863i	AB144812.1	HUMUT5021	L17656
D4S2933	Z52688	D7S0864i	AB144813.1	HUMUT5023	L16424
D4S2934	Z52697	D7S0865i	AB144814.1	HUMUT5024	L18515
D4S2935	Z52710	D7S0866i	AB144815.1	HUMUT5025	L17657
D4S2936	Z52740	D7S0867i	AB144816.1	HUMUT5026	L17658
D4S2937	Z51094	D7S0868i	AB144817.1	HUMUT5027	L16425
D4S2938	Z52768	D7S0869i	AB144818.1	HUMUT5029	L16426
D4S2939	Z52783	D7S0870i	AB129026.1	HUMUT503	L18305

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D4S2941	Z52801	D7S0871i	AB144819.1	HUMUT5030	L16427
D4S2943	Z52813	D7S0872i	AB144820.1	HUMUT5034	L16429
D4S2944	Z52838	D7S0873i	AB144821.1	HUMUT5035	L17662
D4S2946	Z52879	D7S0874i	AB144822.1	HUMUT5036	L16430
D4S2947	Z52899	D7S0875i	AB144823.1	HUMUT5037	L17663
D4S2948	Z52911	D7S0876i	AB144824.1	HUMUT5045B	L30984
D4S2949	Z52915	D7S0877i	AB144825.1	HUMUT5047	L17671
D4S2950	Z52925	D7S0878i	AB144826.1	HUMUT5048	L16431
D4S2952	Z51120	D7S0879i	AB144828.1	HUMUT5061B	L30998
D4S2953	Z52969	D7S0880i	AB144829.1	HUMUT5103	L17694
D4S2954	Z52974	D7S0881i	AB144830.1	HUMUT511	L16271
D4S2955	Z52984	D7S0882i	AB144831.1	HUMUT5114	L17698

D4S2957	Z53093	D7S0883i	AB144832.1	HUMUT5117B	L31046
D4S2960	Z53337	D7S0884i	AB144833.1	HUMUT5122	L18523
D4S2961	Z53347	D7S0885i	AB144834.1	HUMUT5123	L18524
D4S2962	Z53372	D7S0886i	AB144835.1	HUMUT5132	L16438
D4S2963	Z51173	D7S0887i	AB144836.1	HUMUT5135	L16439
D4S2964	Z53407	D7S0888i	AB144837.1	HUMUT5137	L16440
D4S2966	Z53423	D7S0889i	AB144838.1	HUMUT5150	L16443
D4S2967	Z51180	D7S0890i	AB144839.1	HUMUT5155	L17712
D4S2968	Z53455	D7S0891i	AB144840.1	HUMUT5157	L18525
D4S2970	Z53477	D7S0892i	AB129349.1	HUMUT516	L16272
D4S2971	Z53494	D7S0893i	AB144841.1	HUMUT5161	L17715
D4S2973	Z53543	D7S0894i	AB144842.1	HUMUT5171B	L31082

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D4S2974	Z53560	D7S0896i	AB144844.1	HUMUT5174B	L31088
D4S2975	Z53581	D7S0898i	AB144846.1	HUMUT5177B	L31092
D4S2976	Z53616	D7S0899i	AB144847.1	HUMUT5184B	L31102
D4S2977	Z53659	D7S0900i	AB144848.1	HUMUT5187	L16447
D4S2978	Z53667	D7S0901i	AB144849.1	HUMUT5197	L17725
D4S2979	Z53683	D7S0902i	AB144850.1	HUMUT5205B	L31126
D4S2980	Z53686	D7S0903i	AB144851.1	HUMUT520B	L30004
D4S2981	Z53708	D7S0904i	AB144852.1	HUMUT5210	L17731
D4S2982	Z53717	D7S0905i	AB144854.1	HUMUT5217	L16448
D4S2984	Z53748	D7S0906i	AB144855.1	HUMUT5219	L18528
D4S2985	Z53750	D7S0907i	AB144856.1	HUMUT5225B	L31138
D4S2986	Z53755	D7S0909i	AB144858.1	HUMUT5228	L18529

D4S2988	Z50912	D7S0910i	AB144859.1	HUMUT5230B	L31142
D4S2989	Z53783	D7S0911i	AB144860.1	HUMUT5231B	L31144
D4S2990	Z53791	D7S0912i	AB144861.1	HUMUT5239	L18542
D4S2991	Z53795	D7S0913i	AB129350.1	HUMUT5261	L18559
D4S2992	Z53805	D7S0914i	AB144862.1	HUMUT5263	L30802
D4S2993	Z53806	D7S0915i	AB144863.1	HUMUT5264	L30803
D4S2994	Z51227	D7S0916i	AB144864.1	HUMUT5296	L30824
D4S2995	Z53875	D7S0917i	AB144865.1	HUMUT530	L18317
D4S2996	Z53882	D7S0918i	AB144866.1	HUMUT5312	L18594
D4S2997	Z51235	D7S0919i	AB144867.1	HUMUT5319	L18602
D4S2998	Z53901	D7S0920i	AB144868.1	HUMUT533B	L30008
D4S2999	Z53904	D7S0922i	AB144870.1	HUMUT534	L18320

D4S3000	Z53922	D7S0923i	AB144871.1	HUMUT5342	L18622
D4S3002	Z54007	D7S0924i	AB144872.1	HUMUT5347B	L30844
D4S3004	Z51250	D7S0925i	AB144873.1	HUMUT536	L18321
D4S3005	Z54033	D7S0926i	AB144874.1	HUMUT537	L18322
D4S3007	Z51290	D7S0927i	AB144875.1	HUMUT539	L16276
D4S3008	Z51294	D7S0928i	AB144876.1	HUMUT5398	L18669
D4S3009	Z51326	D7S0929i	AB144877.1	HUMUT540	L18323
D4S3010	Z51332	D7S0930i	AB144878.1	HUMUT5428	L18103
D4S3011	Z51350	D7S0931i	AB144879.1	HUMUT5436	L18107
D4S3013	Z51421	D7S0932i	AB144880.1	HUMUT5438	L18108
D4S3014	Z51443	D7S0933i	AB144881.1	HUMUT544	L16279
D4S3015	Z51510	D7S0934i	AB144882.1	HUMUT5482	L18112

D4S3016	Z51550	D7S0935i	AB144883.1	HUMUT5494	L18114
D4S3017	Z51555	D7S0936i	AB144884.1	HUMUT553	L18325
D4S3018	Z51558	D7S0937i	AB144885.1	HUMUT5530	L30662
D4S3019	Z51579	D7S0938i	AB144886.1	HUMUT554	L18326
D4S3021	Z51585	D7S0939i	AB144887.1	HUMUT5541	L18116
D4S3022	Z51593	D7S0940i	AB144888.1	HUMUT5542	L18117
D4S3023	Z51603	D7S0941i	AB144889.1	HUMUT556	L18328
D4S3025	Z51613	D7S0942i	AB144890.1	HUMUT5576	L18125
D4S3026	Z51619	D7S0943i	AB144891.1	HUMUT5608	L18127
D4S3027	Z51633	D7S0944i	AB144892.1	HUMUT5619	L18129
D4S3028	Z51634	D7S0945i	AB144893.1	HUMUT5620	L18130
D4S3031	Z51661	D7S0946i	AB144894.1	HUMUT5627	L18133

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D4S3032	Z51663	D7S0947i	AB144895.1	HUMUT5630	L18134
D4S3033	Z51702	D7S0948i	AB144898.1	HUMUT5635	L18136
D4S3034	Z51717	D7S0949i	AB144899.1	HUMUT5649	L30535
D4S3035	Z51740	D7S0950i	AB144900.1	HUMUT5655	L18140
D4S3036	Z51741	D7S0951i	AB144901.1	HUMUT5677	L18145
D4S3037	Z51746	D7S0952i	AB144902.1	HUMUT5692	L18147
D4S3038	Z51777	D7S0953i	AB144904.1	HUMUT57	L29354
D4S3039	Z51791	D7S0954i	AB144905.1	HUMUT571	L16284
D4S3040	Z51795	D7S0955i	AB144906.1	HUMUT573	L16285
D4S3041	Z51797	D7S0957i	AB144911.1	HUMUT574	L18333
D4S3042	Z51804	D7S0958i	AB144912.1	HUMUT576	L18334
D4S3044	Z51824	D7S0959i	AB144913.1	HUMUT577	L18335



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D4S3045	Z51856	D7S0960i	AB144914.1	HUMUT5774	L18149
D4S3046	Z51862	D7S0962i	AB144918.1	HUMUT5779	L18151
D4S3047	Z51866	D7S0963i	AB144919.1	HUMUT5785	L18154
D4S3048	Z51900	D7S0964i	AB144923.1	HUMUT5798	L18161
D4S3049	Z51981	D7S0965i	AB144924.1	HUMUT5821	L18166
D4S3050	Z51995	D7S0966i	AB144925.1	HUMUT5824	L18167
D4S3051	Z51999	D7S0967i	AB144926.1	HUMUT583B	L30033
D4S3053	Z52027	D7S0968i	AB144927.1	HUMUT584	L18337
D4S391	Z16426	D7S0969i	AB146577.1	HUMUT5900	L18171
D4S392	Z16433	D7S0970i	AB146578.1	HUMUT5901	L18172
D4S393	Z16459	D7S0971i	AB146579.1	HUMUT5912	L18174
D4S395	Z16474	D7S0972i	AB146580.1	HUMUT592	L18340

D4S397	Z16625	D7S0973i	AB146581.1	HUMUT593	L16290
D4S398	Z16640	D7S0975i	AB146585.1	HUMUT5936	L30679
D4S400	Z16662	D7S0976i	AB146586.1	HUMUT5941	L18182
D4S401	Z16671	D7S0977i	AB146587.1	HUMUT5948	L18185
D4S404	Z16706	D7S0978i	AB146588.1	HUMUT5953	L18186
D4S405	Z16717	D7S0979i	AB146589.1	HUMUT5960	L30712
D4S406	Z16728	D7S0980i	AB146590.1	HUMUT5961	L18189
D4S407	Z16731	D7S0982i	AB146593.1	HUMUT5962	L18190
D4S408	Z16748	D7S0984i	AB146595.1	HUMUT597	L18342
D4S409	Z16794	D7S0985i	AB146596.1	HUMUT5980	L30681
D4S410	Z16796	D7S0986i	AB146598.1	HUMUT5999	L30682
D4S413	Z16837	D7S0987i	AB146599.1	HUMUT601	L16293

D4S414	Z16838	D7S0989i	AB129382.1	HUMUT6023	L30683
D4S415	Z16841	D7S0990i	AB146601.1	HUMUT6027	L30718
D4S416	Z16853	D7S0991i	AB146602.1	HUMUT603	L16295
D4S417	Z16879	D7S0992i	AB146605.1	HUMUT6039	L30719
D4S419	Z16935	D7S0993i	AB146606.1	HUMUT6044	L30685
D4S420	Z23614	D7S0994i	AB146607.1	HUMUT6077	L30687
D4S422	Z17010	D7S0995i	AB146608.1	HUMUT607B	L30045
D4S423	Z17012	D7S0996i	AB146609.1	HUMUT6097	L30705
D4S424	Z17023	D7S0997i	AB146612.1	HUMUT6128	L30726
D4S425	Z17043	D7S0998i	AB146613.1	HUMUT6129	L30676
D4S426	Z17062	D7S0999i	AB146614.1	HUMUT6131	L30692
D4S427	Z17128	D7S1000i	AB146615.1	HUMUT614	L18346

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D4S428	Z17152	D7S1001i	AB146616.1	HUMUT6142	L30754
D4S429	Z17158	D7S1002i	AB146617.1	HUMUT617	L16299
D4S430	Z17169	D7S1003i	AB146618.1	HUMUT6196B	L30745
D4S431	Z17175	D7S1004i	AB146619.1	HUMUT6211B	L30747
D4S432	Z17189	D7S1005i	AB146621.1	HUMUT623	L16300
D4S620	Z17244	D7S1006i	AB146622.1	HUMUT6245B	L30738
D4S622	Z17252	D7S1007i	AB146623.1	HUMUT6259	L30739
D5S0001i	AB129526.1	D7S1008i	AB146624.1	HUMUT626	L16301
D5S0002i	AB129530.1	D7S1009i	AB146625.1	HUMUT6279	L30677
D5S0003i	AB129531.1	D7S1010i	AB146626.1	HUMUT629	L18352
D5S0004i	AB129539.1	D7S1011i	AB129383.1	HUMUT6291	L30539
D5S0005i	AB129546.1	D7S1012i	AB146627.1	HUMUT63	L29856

D5S0007i	AB129827.1	D7S1013i	AB146629.1	HUMUT6304	L30711
D5S0011i	AB130140.1	D7S1014i	AB146630.1	HUMUT633	L18353
D5S0012i	AB130141.1	D7S1015i	AB146631.1	HUMUT6351	L30547
D5S0014i	AB130145.1	D7S1016i	AB146632.1	HUMUT635B	L30059
D5S0015i	AB130149.1	D7S1017i	AB146633.1	HUMUT636	L16302
D5S0017i	AB130154.1	D7S1018i	AB146634.1	HUMUT6360	L30549
D5S0018i	AB130155.1	D7S1019i	AB146641.1	HUMUT6372	L30553
D5S0019i	AB130156.1	D7S1020i	AB147150.1	HUMUT6384	L30558
D5S0020i	AB130157.1	D7S1021i	AB147191.1	HUMUT6385	L30559
D5S0021i	AB130160.1	D7S1022i	AB147208.1	HUMUT6393	L30562
D5S0022i	AB130161.1	D7S1023i	AB147217.1	HUMUT6396	L30597
D5S0024i	AB130163.1	D7S1024i	AB147226.1	HUMUT644B	L30063

D5S0025i	AB130165.1	D7S1025i	AB147234.1	HUMUT6478	L30582
D5S0026i	AB130166.1	D7S1026i	AB147235.1	HUMUT6485B	L30642
D5S0027i	AB130169.1	D7S1029i	AB147241.1	HUMUT6510	L30622
D5S0028i	AB130171.1	D7S1030i	AB147243.1	HUMUT6535	L29645
D5S0029i	AB130174.1	D7S1031i	AB147244.1	HUMUT6540	L30586
D5S0030i	AB130177.1	D7S1032i	AB147245.1	HUMUT655	L18359
D5S0031i	AB130179.1	D7S1033i	AB147246.1	HUMUT6554	L29648
D5S0032i	AB130182.1	D7S1034i	AB147247.1	HUMUT6562	L30606
D5S0033i	AB130183.1	D7S1037i	AB147253.1	HUMUT657	L18361
D5S0034i	AB130184.1	D7S1038i	AB147254.1	HUMUT6596	L29655
D5S0035i	AB130185.1	D7S1040i	AB147257.1	HUMUT6615	L30589
D5S0036i	AB130187.1	D7S1041i	AB147259.1	HUMUT6620B	L30572

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D5S0037i	AB130189.1	D7S1042i	AB147260.1	HUMUT6622	L30609
D5S0038i	AB130191.1	D7S1043i	AB147265.1	HUMUT6629	L30573
D5S0039i	AB133741.1	D7S1044i	AB147266.1	HUMUT6716	L30595
D5S0040i	AB133819.1	D7S1532	Z51093	HUMUT6724B	L30579
D5S0041i	AB135285.1	D7S1778	Z67766	HUMUT673	L16309
D5S0043i	AB135300.1	D7S1779	Z67855	HUMUT6730B	L30633
D5S0044i	AB135303.1	D7S1791	G08587	HUMUT6744	L30596
D5S0045i	AB135304.1	D7S1792	G09294	HUMUT6755	L29662
D5S0046i	AB135312.1	D7S1797	G08599	HUMUT677	L18368
D5S0047i	AB135313.1	D7S1799	G09385	HUMUT685	L16312
D5S0048i	AB135314.1	D7S1800	G08613	HUMUT6870B	L29675
D5S0049i	AB135317.1	D7S1802	G08618	HUMUT6880	L30580

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D5S0050i	AB135318.1	D7S1803	G09632	HUMUT6886	L29676
D5S0051i	AB135320.1	D7S1804	G08619	HUMUT692	L16313
D5S0052i	AB135322.1	D7S1808	G08643	HUMUT6930B	L29681
D5S0053i	AB135323.1	D7S1813	G08588	HUMUT6932	L29682
D5S0054i	AB135324.1	D7S1817	G08603	HUMUT6950	L29683
D5S0055i	AB135325.1	D7S1818	G08605	HUMUT6976	L29690
D5S0057i	AB135328.1	D7S1820	G08606	HUMUT7014B	L29698
D5S0058i	AB135329.1	D7S1826	G08622	HUMUT7024B	L29704
D5S0059i	AB135330.1	D7S1828	G09649	HUMUT7035	L29707
D5S0060i	AB135331.1	D7S1830	G08625	HUMUT7041	L29712
D5S0061i	AB135333.1	D7S1832	G09913	HUMUT7056	L29715
D5S0062i	AB135334.1	D7S1834	G08629	HUMUT7073	L29717



D5S0063i	AB135336.1	D7S1841	G09451	HUMUT7078B	L29719
D5S0064i	AB135337.1	D7S1873	Z51830	HUMUT7081	L29722
D5S0065i	AB135338.1	D7S2250	Z50962	HUMUT7093	L29726
D5S0066i	AB135339.1	D7S2251	Z51549	HUMUT7098	L29728
D5S0067i	AB135340.1	D7S2409	Z52456	HUMUT7103	L29730
D5S0068i	AB135342.1	D7S2410	Z52550	HUMUT7129	L29739
D5S0069i	AB135343.1	D7S2415	Z52040	HUMUT7131	L29740
D5S0070i	AB135344.1	D7S2416	Z52079	HUMUT716	L18380
D5S0071i	AB135347.1	D7S2417	Z52088	HUMUT7161B	L29747
D5S0072i	AB135349.1	D7S2418	Z52155	HUMUT7162	L29748
D5S0073i	AB135351.1	D7S2421	Z52184	HUMUT7164B	L29750
D5S0074i	AB135352.1	D7S2422	Z52189	HUMUT7170	L29752

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D5S0075i	AB135353.1	D7S2423	Z52217	HUMUT7182	L29753
D5S0076i	AB135356.1	D7S2426	Z52266	HUMUT7188	L29757
D5S0077i	AB135357.1	D7S2427	Z52270	HUMUT721	L16320
D5S0078i	AB135358.1	D7S2428	Z52274	HUMUT7213B	L29762
D5S0079i	AB135359.1	D7S2429	Z52301	HUMUT7222	L29765
D5S0081i	AB135361.1	D7S2431	Z52343	HUMUT7232	L30408
D5S0082i	AB135362.1	D7S2433	Z52403	HUMUT7257	L30415
D5S0083i	AB135363.1	D7S2434	Z52463	HUMUT726	L16322
D5S0084i	AB135365.1	D7S2437	Z52490	HUMUT7277	L30419
D5S0085i	AB135366.1	D7S2440	Z52517	HUMUT733	L18391
D5S0086i	AB135367.1	D7S2441	Z52527	HUMUT7354	L30429
D5S0087i	AB135368.1	D7S2442	Z52551	HUMUT7380	L30435

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D5S0088i	AB135369.1	D7S2443	Z52562	HUMUT739	L16324
D5S0090i	AB135371.1	D7S2445	Z52591	HUMUT7403	L30438
D5S0091i	AB135372.1	D7S2447	Z51082	HUMUT7406	L30439
D5S0092i	AB135373.1	D7S2448	Z52680	HUMUT7415	L30442
D5S0093i	AB135374.1	D7S2450	Z52739	HUMUT7418	L30443
D5S0094i	AB129147.1	D7S2451	Z52741	HUMUT7429	L30445
D5S0095i	AB135377.1	D7S2452	Z52754	HUMUT744	L18395
D5S0096i	AB135379.1	D7S2453	Z52790	HUMUT745	L18396
D5S0097i	AB135380.1	D7S2454	Z52799	HUMUT746	L16325
D5S0098i	AB135384.1	D7S2455	Z52804	HUMUT7460	L30448
D5S0099i	AB135386.1	D7S2456	Z52821	HUMUT7465B	L30473
D5S0100i	AB135387.1	D7S2457	Z52837	HUMUT748	L18398

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D5S0102i	AB135389.1	D7S2458	Z52848	HUMUT7488	L30283
D5S0103i	AB135391.1	D7S2460	Z51113	HUMUT7493	L30478
D5S0105i	AB135395.1	D7S2461	Z52941	HUMUT751	L16327
D5S0106i	AB135396.1	D7S2463	Z50903	HUMUT7510	L30483
D5S0107i	AB135398.1	D7S2464	Z51122	HUMUT7515	L30486
D5S0108i	AB135399.1	D7S2465	Z52966	HUMUT7520	L30487
D5S0109i	AB135401.1	D7S2467	Z52981	HUMUT7521	L30488
D5S0110i	AB135402.1	D7S2468	Z52992	HUMUT753	L18399
D5S0111i	AB135404.1	D7S2470	Z53005	HUMUT7543	L30284
D5S0112i	AB135405.1	D7S2472	Z53057	HUMUT7544	L30499
D5S0113i	AB135407.1	D7S2473	Z53096	HUMUT7556	L30285
D5S0114i	AB135408.1	D7S2474	Z53098	HUMUT7582	L30513

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D5S0115i	AB135409.1	D7S2475	Z53103	HUMUT7589	L30515
D5S0116i	AB135410.1	D7S2477	Z53171	HUMUT7594	L30517
D5S0117i	AB135411.1	D7S2478	Z53195	HUMUT760B	L31179
D5S0118i	AB135412.1	D7S2480	Z53247	HUMUT761	L16331
D5S0119i	AB135413.1	D7S2483	Z53340	HUMUT7613	L30525
D5S0120i	AB135414.1	D7S2484	Z53345	HUMUT7622	L30528
D5S0121i	AB135415.1	D7S2486	Z53373	HUMUT763	L18402
D5S0122i	AB135416.1	D7S2487	Z53392	HUMUT7642	L30280
D5S0124i	AB135422.1	D7S2488	Z53402	HUMUT7651	L30288
D5S0125i	AB135426.1	D7S2491	Z53438	HUMUT7655	L30291
D5S0126i	AB135427.1	D7S2492	Z53499	HUMUT7663	L30293
D5S0127i	AB135428.1	D7S2494	Z53567	HUMUT7665	L30294

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D5S0128i	AB135429.1	D7S2495	Z53569	HUMUT7667	L30296
D5S0129i	AB135430.1	D7S2496	Z53579	HUMUT767	L18404
D5S0130i	AB135431.1	D7S2497	Z53597	HUMUT7672	L30298
D5S0131i	AB135436.1	D7S2498	Z51209	HUMUT768	L18405
D5S0132i	AB135439.1	D7S2499	Z51211	HUMUT7691	L30305
D5S0133i	AB135444.1	D7S2501	Z53735	HUMUT7708	L30332
D5S0134i	AB135445.1	D7S2502	Z53757	HUMUT7726	L30336
D5S0135i	AB135446.1	D7S2504	Z53797	HUMUT7729	L30312
D5S0136i	AB135451.1	D7S2505	Z53808	HUMUT7739	L30313
D5S0137i	AB135455.1	D7S2506	Z53815	HUMUT7757	L30314
D5S0138i	AB135456.1	D7S2507	Z53832	HUMUT7818	L30350
D5S0139i	AB135462.1	D7S2509	Z51237	HUMUT7838B	L30355

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D5S0140i	AB135463.1	D7S2510	Z53911	HUMUT785B	L31197
D5S0141i	AB136665.1	D7S2511	Z53920	HUMUT786B	L31199
D5S0142i	AB136678.1	D7S2512	Z53927	HUMUT7875B	L30364
D5S0143i	AB136679.1	D7S2513	Z53958	HUMUT7912	L30378
D5S0144i	AB136680.1	D7S2514	Z53975	HUMUT7926	L30384
D5S0146i	AB129172.1	D7S2516	Z54001	HUMUT7927	L30385
D5S0147i	AB136682.1	D7S2517	Z54004	HUMUT792B	L31206
D5S0148i	AB136684.1	D7S2519	Z54039	HUMUT7934	L30389
D5S0149i	AB136688.1	D7S2520	Z54051	HUMUT7943	L30399
D5S0151i	AB136690.1	D7S2521	Z54057	HUMUT7950B	L30401
D5S0152i	AB136691.1	D7S2524	Z50926	HUMUT7952	L30403
D5S0154i	AB136695.1	D7S2525	Z51354	HUMUT7954	L30158

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D5S0155i	AB136697.1	D7S2527	Z51390	HUMUT7968	L30161
D5S0156i	AB136699.1	D7S2529	Z51408	HUMUT7972	L30162
D5S0157i	AB136702.1	D7S2530	Z51410	HUMUT7989B	L30169
D5S0158i	AB136704.1	D7S2531	Z51452	HUMUT7993	L30170
D5S0159i	AB136705.1	D7S2534	Z51494	HUMUT7995	L30171
D5S0160i	AB136706.1	D7S2536	Z51521	HUMUT801	L18422
D5S0161i	AB136707.1	D7S2537	Z51543	HUMUT802B	L31208
D5S0162i	AB136708.1	D7S2538	Z51547	HUMUT8049	L30181
D5S0164i	AB136711.1	D7S2539	Z50943	HUMUT8057	L30326
D5S0165i	AB136712.1	D7S2540	Z51567	HUMUT8063	L30185
D5S0166i	AB136713.1	D7S2542	Z51583	HUMUT8076	L30192
D5S0167i	AB136714.1	D7S2544	Z51664	HUMUT8081B	L30195



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D5S0169i	AB136716.1	D7S2545	Z51681	HUMUT8091	L30199
D5S0171i	AB136719.1	D7S2546	Z51692	HUMUT8098	L30201
D5S0172i	AB136720.1	D7S2547	Z50961	HUMUT8106B	L30207
D5S0173i	AB136721.1	D7S2548	Z51706	HUMUT8112	L30327
D5S0174i	AB136725.1	D7S2549	Z51722	HUMUT8114B	L30214
D5S0175i	AB136726.1	D7S2550	Z50966	HUMUT813	L18429
D5S0176i	AB136731.1	D7S2552	Z51799	HUMUT8138B	L30230
D5S0177i	AB136852.1	D7S2553	Z51806	HUMUT8147	L30234
D5S0178i	AB136951.1	D7S2554	Z51807	HUMUT8159	L30240
D5S0179i	AB136952.1	D7S2555	Z51811	HUMUT8162	L30243
D5S0180i	AB129174.1	D7S2556	Z50975	HUMUT8173B	L30254
D5S0181i	AB136955.1	D7S2557	Z51841	HUMUT8184	L30277

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D5S0182i	AB136957.1	D7S2558	Z51865	HUMUT831	L18439
D5S0183i	AB136958.1	D7S2559	Z51875	HUMUT851	L18448
D5S0184i	AB136959.1	D7S2560	Z51898	HUMUT862	L16340
D5S0185i	AB136960.1	D7S2561	Z51919	HUMUT864B	L36706
D5S0186i	AB136963.1	D7S2563	Z51984	HUMUT866	L16341
D5S0188i	AB136965.1	D7S2564	Z52023	HUMUT868	L16342
D5S0189i	AB136966.1	D7S478	Z16455	HUMUT869B	L31255
D5S0190i	AB136967.1	D7S479	Z16460	HUMUT871	L16344
D5S0191i	AB136968.1	D7S481	Z16478	HUMUT876	L22960
D5S0192i	AB136969.1	D7S482	Z16519	HUMUT878B	L31261
D5S0193i	AB136970.1	D7S486	Z16567	HUMUT880B	L31263
D5S0194i	AB136971.1	D7S487	Z16582	HUMUT882	L18455

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D5S0195i	AB136972.1	D7S488	Z16593	HUMUT886B	L31271
D5S0196i	AB136974.1	D7S490	Z16675	HUMUT890	L18459
D5S0197i	AB136975.1	D7S491	Z16679	HUMUT892	L31272
D5S0198i	AB136976.1	D7S492	Z16704	HUMUT893	L16348
D5S0199i	AB136977.1	D7S494	Z16756	HUMUT894B	L31274
D5S0200i	AB136978.1	D7S495	Z16760	HUMUT896	L16349
D5S0201i	AB136980.1	D7S496	Z16766	HUMUT900B	L31280
D5S0202i	AB136981.1	D7S497	Z16776	HUMUT901	L16351
D5S0203i	AB136984.1	D7S498	Z16797	HUMUT902	L18462
D5S0204i	AB137725.1	D7S500	Z16866	HUMUT904	L16352
D5S0205i	AB137728.1	D7S501	Z16867	HUMUT909	L16354
D5S0206i	AB137729.1	D7S503	Z16870	HUMUT912	L18465

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D5S0207i	AB137731.1	D7S504	Z16873	HUMUT918	L18470
D5S0208i	AB137732.1	D7S505	Z16877	HUMUT920	L18471
D5S0209i	AB137733.1	D7S506	Z16883	HUMUT921	L16356
D5S0210i	AB137734.1	D7S507	Z16885	HUMUT925	L16357
D5S0211i	AB137735.1	D7S509	Z16899	HUMUT952	L16362
D5S0212i	AB137736.1	D7S510	Z16936	HUMUT963	L18485
D5S0213i	AB137737.1	D7S511	Z16955	HUMUT974	L16367
D5S0214i	AB137738.1	D7S514	Z16990	HUMUT979	L16369
D5S0215i	AB137739.1	D7S515	Z16999	HUMUT995	L18499
D5S0216i	AB129184.1	D7S517	Z17022	HUMUT996	L18500
D5S0217i	AB137744.1	D7S518	Z17029	Z23473	
D5S0218i	AB137746.1	D7S519	Z17061	Z23595	

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D5S0219i	AB137747.1	D7S520	Z17080	Z66570
D5S0220i	AB137748.1	D7S521	Z17093	Z66580
D5S0221i	AB137749.1	D7S522	Z17100	Z66581
D5S0222i	AB137750.1	D7S525	Z17106	Z66584
D5S0223i	AB137751.1	D7S526	Z17112	Z66586
D5S0224i	AB137753.1	D7S528	Z17114	Z66589
D5S0225i	AB137755.1	D7S530	Z17136	Z66592
D5S0226i	AB137756.1	D7S531	Z17146	Z66593
D5S0227i	AB137761.1	D7S550	Z17261	Z66599
D5S0228i	AB137762.1	D7S629	Z23419	Z66600
D5S0229i	AB137763.1	D7S631	Z23439	Z66601
D5S0230i	AB137765.1	D7S636	Z23585	Z66602

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D5S0231i	AB137766.1	D7S638	Z23645	Z66605
D5S0233i	AB137773.1	D7S639	Z23668	Z66607
D5S0234i	AB137774.1	D7S640	Z23671	Z66609
D5S0235i	AB137775.1	D7S643	Z23691	Z66612
D5S0236i	AB137777.1	D7S646	Z23758	Z66613
D5S0238i	AB137779.1	D7S647	Z23760	Z66615
D5S0239i	AB137781.1	D7S648	Z23334	Z66616
D5S0240i	AB137783.1	D7S649	Z23771	Z66618
D5S0241i	AB137784.1	D7S650	Z23782	Z66621
D5S0242i	AB137785.1	D7S652	Z23826	Z66622
D5S0243i	AB137786.1	D7S655	Z23863	Z66623
D5S0244i	AB137788.1	D7S656	Z23867	Z66624

D5S0245i	AB137789.1	D7S659	Z23968	Z66627
D5S0246i	AB137790.1	D7S660	Z23973	Z66629
D5S0247i	AB137791.1	D7S662	Z23992	Z66630
D5S0248i	AB137792.1	D7S663	Z23996	Z66635
D5S0249i	AB137793.1	D7S664	Z23997	Z66638
D5S0250i	AB137794.1	D7S665	Z24024	Z66641
D5S0251i	AB137795.1	D7S666	Z24028	Z66642
D5S0252i	AB137796.1	D7S667	Z24040	Z66643
D5S0253i	AB137797.1	D7S668	Z24045	Z66644
D5S0254i	AB137798.1	D7S669	Z24049	Z66645
D5S0255i	AB137799.1	D7S670	Z24065	Z66648
D5S0256i	AB129185.1	D7S671	Z24073	Z66649

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D5S0257i	AB137800.1	D7S672	Z24075	Z66654
D5S0258i	AB137801.1	D7S673	Z24093	Z66657
D5S0259i	AB137804.1	D7S674	Z24135	Z66659
D5S0260i	AB137805.1	D7S675	Z24161	Z66666
D5S0262i	AB137808.1	D7S676	Z24229	Z66667
D5S0263i	AB137809.1	D7S678	Z24263	Z66673
D5S0264i	AB137812.1	D7S679	Z24273	Z66675
D5S0265i	AB137816.1	D7S680	Z24286	Z66676
D5S0266i	AB137817.1	D7S684	Z24317	Z66679
D5S0267i	AB129186.1	D7S685	Z24334	Z66682
D5S0268i	AB137820.1	D7S686	Z24384	Z66683
D5S0269i	AB137821.1	D7S687	Z24392	Z66684



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D5S0270i	AB137822.1	D7S690	Z24551	Z66686
D5S0271i	AB137823.1	D7S692	Z24606	Z66689
D5S0272i	AB137824.1	D7S798	Z23544	Z66690
D5S0273i	AB137825.1	D8S0001i	AB129536.1	Z66691
D5S0274i	AB137828.1	D8S0002i	AB129538.1	Z66693
D5S0275i	AB137830.1	D8S0004i	AB129541.1	Z66694
D5S0276i	AB137831.1	D8S0005i	AB129544.1	Z66697
D5S0277i	AB137833.1	D8S0006i	AB129545.1	Z66700
D5S0278i	AB137834.1	D8S0007i	AB129914.1	Z66702
D5S0279i	AB137835.1	D8S0008i	AB130616.1	Z66706
D5S0281i	AB137837.1	D8S0009i	AB130617.1	Z66707
D5S0282i	AB137838.1	D8S0010i	AB130618.1	Z66709

D5S0283i	AB137839.1	D8S0012i	AB130622.1	Z66711
D5S0284i	AB137841.1	D8S0013i	AB130624.1	Z66713
D5S0285i	AB137843.1	D8S0014i	AB130626.1	Z66715
D5S0286i	AB137849.1	D8S0016i	AB130628.1	Z66716
D5S0287i	AB137850.1	D8S0017i	AB130629.1	Z66718
D5S0288i	AB137852.1	D8S0018i	AB130631.1	Z66724
D5S0289i	AB137853.1	D8S0019i	AB130632.1	Z66725
D5S0290i	AB137854.1	D8S0020i	AB130636.1	Z66727
D5S0291i	AB137856.1	D8S0021i	AB130638.1	Z66730
D5S0293i	AB138108.1	D8S0022i	AB130639.1	Z66731
D5S0294i	AB138109.1	D8S0023i	AB130644.1	Z66734
D5S0295i	AB138110.1	D8S0024i	AB130647.1	Z66739

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D5S0296i	AB138111.1	D8S0026i	AB131033.1	Z66740
D5S0297i	AB138112.1	D8S0027i	AB133754.1	Z66749
D5S0298i	AB138114.1	D8S0028i	AB134054.1	Z66750
D5S0299i	AB138115.1	D8S0029i	AB134066.1	Z66751
D5S0300i	AB138116.1	D8S0030i	AB135417.1	Z66753
D5S0301i	AB138119.1	D8S0031i	AB135418.1	Z66756
D5S0304i	AB138123.1	D8S0032i	AB135419.1	Z66763
D5S0305i	AB138124.1	D8S0033i	AB135420.1	Z66766
D5S0306i	AB138125.1	D8S0034i	AB135432.1	Z66769
D5S0307i	AB138126.1	D8S0036i	AB135435.1	Z66770
D5S0308i	AB138130.1	D8S0037i	AB135440.1	Z66771
D5S0310i	AB129193.1	D8S0039i	AB135448.1	Z66773

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D5S0311i	AB138132.1	D8S0040i	AB135449.1	Z66775
D5S0312i	AB138136.1	D8S0042i	AB135459.1	Z66776
D5S0313i	AB138137.1	D8S0043i	AB135460.1	Z66777
D5S0314i	AB138138.1	D8S0044i	AB135461.1	Z66778
D5S0315i	AB138139.1	D8S0045i	AB135466.1	Z66779
D5S0316i	AB138140.1	D8S0046i	AB135469.1	Z66782
D5S0317i	AB138142.1	D8S0047i	AB135470.1	Z66783
D5S0318i	AB138144.1	D8S0048i	AB135471.1	Z66784
D5S0319i	AB138145.1	D8S0049i	AB135458.1	Z66785
D5S0320i	AB138146.1	D8S0050i	AB135474.1	Z66786
D5S0321i	AB138148.1	D8S0051i	AB135476.1	Z66787
D5S0322i	AB138149.1	D8S0052i	AB135478.1	Z66789

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D5S0324i	AB138151.1	D8S0054i	AB135481.1	Z66790
D5S0325i	AB138152.1	D8S0056i	AB135485.1	Z66793
D5S0327i	AB138155.1	D8S0057i	AB135491.1	Z66794
D5S0333i	AB138164.1	D8S0058i	AB135493.1	Z66797
D5S0334i	AB138166.1	D8S0059i	AB135495.1	Z66798
D5S0337i	AB138172.1	D8S0060i	AB135497.1	Z66799
D5S0340i	AB138177.1	D8S0061i	AB135498.1	Z66800
D5S0341i	AB138178.1	D8S0062i	AB135500.1	Z66802
D5S0342i	AB138179.1	D8S0063i	AB135501.1	Z66804
D5S0344i	AB138182.1	D8S0064i	AB135506.1	Z66807
D5S0345i	AB138183.1	D8S0065i	AB135507.1	Z66811
D5S0346i	AB138184.1	D8S0066i	AB136068.1	Z66814

D5S0347i	AB138185.1	D8S0067i	AB136736.1	Z66816
D5S0348i	AB138186.1	D8S0068i	AB136739.1	Z66817
D5S0350i	AB138193.1	D8S0069i	AB136740.1	Z66820
D5S0351i	AB138195.1	D8S0070i	AB136741.1	Z66821
D5S0353i	AB138197.1	D8S0071i	AB136744.1	Z66823
D5S0354i	AB138198.1	D8S0072i	AB137021.1	Z66826
D5S0355i	AB138199.1	D8S0073i	AB137023.1	Z66829
D5S0356i	AB138201.1	D8S0074i	AB137024.1	Z66830
D5S0357i	AB138202.1	D8S0075i	AB137025.1	Z66835
D5S0358i	AB138203.1	D8S0076i	AB129175.1	Z66836
D5S0359i	AB138204.1	D8S0078i	AB137032.1	Z66841
D5S0360i	AB138207.1	D8S0079i	AB137033.1	Z66847

D5S0361i	AB138208.1	D8S0081i	AB137035.1	Z66855
D5S0362i	AB138209.1	D8S0082i	AB137036.1	Z66856
D5S0363i	AB138210.1	D8S0083i	AB137037.1	Z66858
D5S0364i	AB138212.1	D8S0084i	AB137039.1	Z66859
D5S0365i	AB138213.1	D8S0085i	AB137040.1	Z66863
D5S0366i	AB138214.1	D8S0086i	AB137041.1	Z66865
D5S0367i	AB138215.1	D8S0087i	AB137042.1	Z66867
D5S0368i	AB138216.1	D8S0088i	AB137043.1	Z66869
D5S0369i	AB138218.1	D8S0090i	AB137046.1	Z66870
D5S0370i	AB138219.1	D8S0091i	AB137047.1	Z66871
D5S0371i	AB138220.1	D8S0092i	AB137048.1	Z66872
D5S0372i	AB138221.1	D8S0093i	AB137049.1	Z66873

D5S0373i	AB138222.1	D8S0095i	AB137051.1	Z66874
D5S0375i	AB138226.1	D8S0096i	AB137053.1	Z66876
D5S0376i	AB138227.1	D8S0097i	AB137054.1	Z66879
D5S0377i	AB138229.1	D8S0098i	AB137055.1	Z66880
D5S0378i	AB138230.1	D8S0100i	AB137058.1	Z66881
D5S0379i	AB138231.1	D8S0101i	AB137059.1	Z66883
D5S0381i	AB138233.1	D8S0102i	AB137060.1	Z66885
D5S0382i	AB138234.1	D8S0103i	AB137061.1	Z66886
D5S0383i	AB138235.1	D8S0104i	AB137062.1	Z66887
D5S0384i	AB138236.1	D8S0105i	AB137064.1	Z66888
D5S0385i	AB138237.1	D8S0106i	AB137065.1	Z66889
D5S0386i	AB138238.1	D8S0107i	AB137069.1	Z66890



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D5S0388i	AB138240.1	D8S0108i	AB137071.1	Z66891
D5S0389i	AB138242.1	D8S0110i	AB137074.1	Z66892
D5S0390i	AB138243.1	D8S0112i	AB137078.1	Z66895
D5S0391i	AB138244.1	D8S0114i	AB137080.1	Z66899
D5S0392i	AB138245.1	D8S0115i	AB137083.1	Z66901
D5S0393i	AB138246.1	D8S0116i	AB137614.1	Z66902
D5S0394i	AB138249.1	D8S0119i	AB137847.1	Z66903
D5S0396i	AB138252.1	D8S0120i	AB137851.1	Z66905
D5S0397i	AB138253.1	D8S0121i	AB137855.1	Z66907
D5S0399i	AB138255.1	D8S0122i	AB137858.1	Z66912
D5S0400i	AB138256.1	D8S0123i	AB137859.1	Z66914
D5S0401i	AB138257.1	D8S0124i	AB137860.1	Z66917

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D5S0402i	AB138258.1	D8S0125i	AB137861.1	Z66918
D5S0403i	AB138259.1	D8S0126i	AB137862.1	Z66919
D5S0404i	AB138261.1	D8S0129i	AB137865.1	Z66922
D5S0405i	AB129195.1	D8S0130i	AB137866.1	Z66924
D5S0406i	AB138263.1	D8S0132i	AB137868.1	Z66925
D5S0407i	AB138264.1	D8S0133i	AB137869.1	Z66926
D5S0408i	AB138265.1	D8S0134i	AB137870.1	Z66934
D5S0409i	AB138266.1	D8S0135i	AB137871.1	Z66935
D5S0410i	AB138267.1	D8S0137i	AB137874.1	Z66937
D5S0411i	AB138268.1	D8S0138i	AB137848.1	Z66941
D5S0412i	AB138269.1	D8S0140i	AB137877.1	Z66945
D5S0413i	AB138272.1	D8S0141i	AB137878.1	Z66952

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D5S0414i	AB138274.1	D8S0143i	AB137881.1	Z66953
D5S0415i	AB138279.1	D8S0145i	AB137882.1	Z66954
D5S0416i	AB138281.1	D8S0149i	AB138362.1	Z66956
D5S0417i	AB138282.1	D8S0151i	AB138366.1	Z66957
D5S0418i	AB138283.1	D8S0152i	AB138370.1	Z66959
D5S0419i	AB138285.1	D8S0153i	AB138371.1	Z66960
D5S0420i	AB138288.1	D8S0154i	AB138375.1	Z66962
D5S0421i	AB138289.1	D8S0155i	AB138376.1	Z66963
D5S0422i	AB138290.1	D8S0156i	AB138377.1	Z66964
D5S0423i	AB138291.1	D8S0157i	AB138378.1	Z66965
D5S0424i	AB138292.1	D8S0159i	AB138386.1	Z66966
D5S0425i	AB138293.1	D8S0160i	AB138387.1	Z66971

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D5S0426i	AB138294.1	D8S0161i	AB138388.1	Z66972
D5S0427i	AB138295.1	D8S0162i	AB138389.1	Z66976
D5S0428i	AB138297.1	D8S0165i	AB138398.1	Z66978
D5S0429i	AB138299.1	D8S0166i	AB138400.1	Z66980
D5S0430i	AB138300.1	D8S0167i	AB138408.1	Z66985
D5S0431i	AB138303.1	D8S0168i	AB138409.1	Z66987
D5S0432i	AB138304.1	D8S0169i	AB138410.1	Z66989
D5S0433i	AB138307.1	D8S0170i	AB138412.1	Z66990
D5S0434i	AB138308.1	D8S0171i	AB138414.1	Z66996
D5S0435i	AB138309.1	D8S0172i	AB138415.1	Z66998
D5S0436i	AB138311.1	D8S0174i	AB138393.1	Z67001
D5S0437i	AB138313.1	D8S0175i	AB138440.1	Z67005

D5S0438i	AB138314.1	D8S0176i	AB138441.1	Z67007
D5S0439i	AB138315.1	D8S0177i	AB139205.1	Z67008
D5S0440i	AB138316.1	D8S0178i	AB140078.1	Z67012
D5S0441i	AB138317.1	D8S0180i	AB140080.1	Z67014
D5S0442i	AB138319.1	D8S0181i	AB140081.1	Z67015
D5S0443i	AB138321.1	D8S0182i	AB140082.1	Z67019
D5S0444i	AB138324.1	D8S0183i	AB140083.1	Z67021
D5S0445i	AB138325.1	D8S0185i	AB140085.1	Z67022
D5S0446i	AB138326.1	D8S0186i	AB140087.1	Z67024
D5S0447i	AB138327.1	D8S0187i	AB140088.1	Z67025
D5S0448i	AB138328.1	D8S0188i	AB140090.1	Z67028
D5S0449i	AB138332.1	D8S0189i	AB140091.1	Z67030

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D5S0452i	AB138340.1	D8S0190i	AB129230.1	Z67032
D5S0453i	AB138342.1	D8S0191i	AB140092.1	Z67033
D5S0454i	AB138354.1	D8S0192i	AB140094.1	Z67039
D5S0455i	AB138403.1	D8S0193i	AB140097.1	Z67043
D5S0456i	AB140221.1	D8S0196i	AB140102.1	Z67044
D5S0458i	AB141526.1	D8S0197i	AB140103.1	Z67046
D5S0459i	AB129259.1	D8S0198i	AB140105.1	Z67047
D5S0460i	AB141530.1	D8S0199i	AB140106.1	Z67051
D5S0461i	AB141534.1	D8S0202i	AB140110.1	Z67056
D5S0462i	AB141540.1	D8S0203i	AB140111.1	Z67058
D5S0463i	AB141541.1	D8S0204i	AB140112.1	Z67059
D5S0464i	AB141542.1	D8S0205i	AB140113.1	Z67060

D5S0465i	AB141544.1	D8S0209i	AB140117.1	Z67064
D5S0466i	AB141546.1	D8S0210i	AB140118.1	Z67066
D5S0467i	AB141547.1	D8S0211i	AB140119.1	Z67067
D5S0468i	AB141548.1	D8S0212i	AB140120.1	Z67071
D5S0469i	AB141549.1	D8S0213i	AB140121.1	Z67072
D5S0470i	AB141550.1	D8S0214i	AB140122.1	Z67074
D5S0471i	AB141551.1	D8S0215i	AB140123.1	Z67076
D5S0472i	AB141552.1	D8S0217i	AB140126.1	Z67077
D5S0473i	AB141553.1	D8S0218i	AB140129.1	Z67082
D5S0474i	AB141554.1	D8S0219i	AB140130.1	Z67084
D5S0475i	AB141555.1	D8S0220i	AB140131.1	Z67085
D5S0476i	AB129260.1	D8S0221i	AB140132.1	Z67087

D5S0477i	AB141557.1	D8S0222i	AB140133.1	Z67090
D5S0478i	AB141558.1	D8S0223i	AB140134.1	Z67093
D5S0479i	AB141559.1	D8S0224i	AB140135.1	Z67094
D5S0480i	AB141560.1	D8S0225i	AB140137.1	Z67098
D5S0481i	AB141561.1	D8S0227i	AB140139.1	Z67099
D5S0482i	AB141562.1	D8S0228i	AB140140.1	Z67100
D5S0483i	AB141563.1	D8S0229i	AB140142.1	Z67101
D5S0484i	AB141564.1	D8S0230i	AB140143.1	Z67103
D5S0485i	AB141565.1	D8S0231i	AB140144.1	Z67104
D5S0486i	AB141566.1	D8S0232i	AB140145.1	Z67107
D5S0487i	AB141567.1	D8S0233i	AB140146.1	Z67108
D5S0488i	AB141568.1	D8S0234i	AB140147.1	Z67111



D5S0490i	AB141570.1	D8S0238i	AB140151.1	Z67114
D5S0491i	AB141571.1	D8S0239i	AB140152.1	Z67115
D5S0492i	AB141572.1	D8S0241i	AB140154.1	Z67120
D5S0493i	AB141573.1	D8S0242i	AB140155.1	Z67121
D5S0494i	AB141574.1	D8S0245i	AB140159.1	Z67127
D5S0496i	AB141576.1	D8S0246i	AB140160.1	Z67128
D5S0497i	AB141577.1	D8S0247i	AB140161.1	Z67131
D5S0498i	AB141578.1	D8S0248i	AB140162.1	Z67132
D5S0499i	AB141579.1	D8S0249i	AB140163.1	Z67133
D5S0500i	AB141580.1	D8S0250i	AB140164.1	Z67140
D5S0501i	AB141583.1	D8S0251i	AB140165.1	Z67141
D5S0503i	AB141588.1	D8S0252i	AB140166.1	Z67142

D5S0504i	AB141589.1	D8S0254i	AB140169.1	Z67143
D5S0505i	AB141590.1	D8S0255i	AB140170.1	Z67144
D5S0506i	AB141595.1	D8S0256i	AB140171.1	Z67145
D5S0507i	AB141596.1	D8S0257i	AB140172.1	Z67157
D5S0508i	AB141601.1	D8S0259i	AB140174.1	Z67158
D5S0509i	AB141604.1	D8S0260i	AB140175.1	Z67159
D5S0510i	AB141605.1	D8S0261i	AB140176.1	Z67161
D5S0511i	AB141608.1	D8S0262i	AB140177.1	Z67162
D5S0512i	AB141609.1	D8S0263i	AB140178.1	Z67163
D5S0513i	AB141613.1	D8S0264i	AB140179.1	Z67164
D5S0514i	AB141614.1	D8S0266i	AB140181.1	Z67165
D5S0515i	AB141615.1	D8S0267i	AB140182.1	Z67172

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D5S0516i	AB141616.1	D8S0269i	AB140184.1	Z67174
D5S0517i	AB143611.1	D8S0271i	AB140187.1	Z67176
D5S0518i	AB144268.1	D8S0272i	AB140188.1	Z67178
D5S0519i	AB144269.1	D8S0274i	AB140190.1	Z67181
D5S0520i	AB144270.1	D8S0275i	AB140191.1	Z67182
D5S0521i	AB144271.1	D8S0276i	AB140193.1	Z67183
D5S0522i	AB144275.1	D8S0278i	AB140196.1	Z67188
D5S0523i	AB144276.1	D8S0279i	AB140197.1	Z67193
D5S0524i	AB144279.1	D8S0280i	AB140198.1	Z67196
D5S0525i	AB144282.1	D8S0281i	AB140200.1	Z67197
D5S0526i	AB144286.1	D8S0282i	AB140203.1	Z67199
D5S0527i	AB144292.1	D8S0283i	AB140204.1	Z67200

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D5S0528i	AB144293.1	D8S0284i	AB140205.1	Z67206
D5S0529i	AB144294.1	D8S0285i	AB140206.1	Z67212
D5S0531i	AB144295.1	D8S0286i	AB140207.1	Z67213
D5S0532i	AB144296.1	D8S0287i	AB140208.1	Z67215
D5S0533i	AB144297.1	D8S0288i	AB140209.1	Z67216
D5S0534i	AB144298.1	D8S0289i	AB140210.1	Z67217
D5S0535i	AB144299.1	D8S0290i	AB140212.1	Z67218
D5S0536i	AB144300.1	D8S0292i	AB140214.1	Z67220
D5S0537i	AB144301.1	D8S0293i	AB140216.1	Z67221
D5S0538i	AB144302.1	D8S0294i	AB140217.1	Z67222
D5S0539i	AB144303.1	D8S0295i	AB140218.1	Z67224
D5S0540i	AB144304.1	D8S0296i	AB140219.1	Z67226

D5S0541i	AB144305.1	D8S0297i	AB140220.1	Z67227
D5S0542i	AB144306.1	D8S0298i	AB140222.1	Z67228
D5S0543i	AB144307.1	D8S0299i	AB140223.1	Z67229
D5S0546i	AB144310.1	D8S0300i	AB140224.1	Z67234
D5S0547i	AB144311.1	D8S0301i	AB140225.1	Z67235
D5S0548i	AB144312.1	D8S0302i	AB140226.1	Z67237
D5S0549i	AB144313.1	D8S0303i	AB140227.1	Z67238
D5S0550i	AB144314.1	D8S0304i	AB140228.1	Z67240
D5S0552i	AB144316.1	D8S0305i	AB140229.1	Z67241
D5S0553i	AB144317.1	D8S0307i	AB140231.1	Z67244
D5S0554i	AB144318.1	D8S0308i	AB140232.1	Z67245
D5S0555i	AB144319.1	D8S0309i	AB140233.1	Z67247

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D5S0556i	AB144321.1	D8S0310i	AB140234.1	Z67248
D5S0557i	AB144322.1	D8S0311i	AB140235.1	Z67250
D5S0558i	AB144323.1	D8S0312i	AB140236.1	Z67251
D5S0559i	AB144324.1	D8S0313i	AB140237.1	Z67252
D5S0560i	AB144325.1	D8S0314i	AB140238.1	Z67253
D5S0561i	AB144326.1	D8S0315i	AB140239.1	Z67254
D5S0562i	AB144327.1	D8S0316i	AB140240.1	Z67255
D5S0563i	AB144328.1	D8S0317i	AB140241.1	Z67256
D5S0564i	AB144329.1	D8S0318i	AB140242.1	Z67262
D5S0565i	AB144330.1	D8S0320i	AB140244.1	Z67264
D5S0566i	AB144331.1	D8S0321i	AB140245.1	Z67265
D5S0567i	AB144333.1	D8S0322i	AB140246.1	Z67266

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D5S0568i	AB144334.1	D8S0323i	AB140247.1	Z67267
D5S0569i	AB144335.1	D8S0324i	AB140251.1	Z67268
D5S0570i	AB144336.1	D8S0325i	AB140252.1	Z67269
D5S0571i	AB144337.1	D8S0326i	AB140253.1	Z67270
D5S0572i	AB144338.1	D8S0327i	AB140254.1	Z67271
D5S0573i	AB144339.1	D8S0328i	AB140256.1	Z67281
D5S0574i	AB144340.1	D8S0329i	AB140257.1	Z67282
D5S0575i	AB144341.1	D8S0330i	AB140258.1	Z67283
D5S0576i	AB144342.1	D8S0331i	AB140259.1	Z67285
D5S0577i	AB144343.1	D8S0332i	AB140260.1	Z67288
D5S0578i	AB144344.1	D8S0333i	AB140261.1	Z67289
D5S0579i	AB144345.1	D8S0334i	AB140262.1	Z67290

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D5S0580i	AB144346.1	D8S0335i	AB140264.1	Z67292
D5S0581i	AB144347.1	D8S0336i	AB140265.1	Z67293
D5S0582i	AB144348.1	D8S0337i	AB140267.1	Z67294
D5S0583i	AB144349.1	D8S0338i	AB140269.1	Z67295
D5S0584i	AB144350.1	D8S0339i	AB140270.1	Z67300
D5S0585i	AB144351.1	D8S0340i	AB140271.1	Z67306
D5S0586i	AB144352.1	D8S0341i	AB140272.1	Z67307
D5S0587i	AB144353.1	D8S0342i	AB140273.1	Z67309
D5S0588i	AB144354.1	D8S0343i	AB140275.1	Z67311
D5S0589i	AB144355.1	D8S0344i	AB140276.1	Z67312
D5S0590i	AB144357.1	D8S0347i	AB140279.1	Z67314
D5S0591i	AB144358.1	D8S0349i	AB140281.1	Z67315



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D5S0592i	AB144359.1	D8S0351i	AB140283.1	Z67316
D5S0593i	AB144361.1	D8S0352i	AB140284.1	Z67318
D5S0594i	AB144362.1	D8S0353i	AB140285.1	Z67321
D5S0595i	AB144363.1	D8S0354i	AB140287.1	Z67323
D5S0596i	AB144364.1	D8S0355i	AB140288.1	Z67329
D5S0597i	AB144365.1	D8S0357i	AB140291.1	Z67330
D5S0598i	AB144366.1	D8S0358i	AB140292.1	Z67331
D5S0599i	AB144367.1	D8S0359i	AB140293.1	Z67332
D5S0600i	AB144368.1	D8S0360i	AB140294.1	Z67333
D5S0601i	AB144369.1	D8S0361i	AB140295.1	Z67335
D5S0602i	AB144370.1	D8S0362i	AB140255.1	Z67336
D5S0603i	AB144371.1	D8S0363i	AB140296.1	Z67339

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D5S0604i	AB144372.1	D8S0364i	AB140297.1	Z67340
D5S0605i	AB144373.1	D8S0365i	AB140298.1	Z67341
D5S0606i	AB144374.1	D8S0366i	AB140299.1	Z67342
D5S0607i	AB144375.1	D8S0367i	AB140300.1	Z67343
D5S0608i	AB144376.1	D8S0368i	AB140301.1	Z67344
D5S0609i	AB129334.1	D8S0370i	AB140302.1	Z67345
D5S0610i	AB144377.1	D8S0371i	AB140303.1	Z67347
D5S0611i	AB144378.1	D8S0372i	AB140304.1	Z67348
D5S0612i	AB144379.1	D8S0373i	AB140305.1	Z67350
D5S0613i	AB144380.1	D8S0374i	AB140306.1	Z67354
D5S0614i	AB144381.1	D8S0375i	AB140307.1	Z67356
D5S0615i	AB144382.1	D8S0376i	AB140308.1	Z67360

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D5S0616i	AB144383.1	D8S0378i	AB140309.1	Z67361
D5S0617i	AB144384.1	D8S0379i	AB140313.1	Z67364
D5S0618i	AB144385.1	D8S0380i	AB140314.1	Z67366
D5S0619i	AB144386.1	D8S0381i	AB140315.1	Z67367
D5S0620i	AB144387.1	D8S0382i	AB140316.1	Z67368
D5S0621i	AB144388.1	D8S0383i	AB140317.1	Z67370
D5S0622i	AB144389.1	D8S0384i	AB140318.1	Z67377
D5S0623i	AB129335.1	D8S0385i	AB140319.1	Z67379
D5S0624i	AB144390.1	D8S0386i	AB140320.1	Z67384
D5S0625i	AB144391.1	D8S0387i	AB140321.1	Z67385
D5S0626i	AB144392.1	D8S0388i	AB141629.1	Z67389
D5S0627i	AB144393.1	D8S0389i	AB141630.1	Z67390

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D5S0628i	AB144394.1	D8S0390i	AB141636.1	Z67391
D5S0629i	AB144395.1	D8S0391i	AB141640.1	Z67392
D5S0630i	AB144396.1	D8S0392i	AB141641.1	Z67393
D5S0631i	AB144397.1	D8S0393i	AB141642.1	Z67394
D5S0632i	AB144398.1	D8S0394i	AB141647.1	Z67396
D5S0633i	AB144399.1	D8S0395i	AB141648.1	Z67400
D5S0634i	AB144400.1	D8S0397i	AB129266.1	Z67401
D5S0635i	AB144401.1	D8S0423i	AB144723.1	Z67402
D5S0636i	AB144402.1	D8S0424i	AB144896.1	Z67403
D5S0637i	AB144403.1	D8S0425i	AB144897.1	Z67406
D5S0638i	AB144404.1	D8S0426i	AB144903.1	Z67411
D5S0639i	AB144405.1	D8S0427i	AB144907.1	Z67417

Hypertension 77354 Supplement

D5S0640i	AB144406.1	D8S0428i	AB144908.1	Z67418
D5S0641i	AB144407.1	D8S0429i	AB144909.1	Z67421
D5S0642i	AB144408.1	D8S0430i	AB144915.1	Z67423
D5S0643i	AB144409.1	D8S0431i	AB144916.1	Z67424
D5S0644i	AB144410.1	D8S0432i	AB144921.1	Z67427
D5S0645i	AB144411.1	D8S0433i	AB144922.1	Z67429
D5S0646i	AB144412.1	D8S0434i	AB144928.1	Z67430
D5S0647i	AB144413.1	D8S0435i	AB144929.1	Z67436
D5S0648i	AB144414.1	D8S0436i	AB144931.1	Z67437
D5S0649i	AB144415.1	D8S0437i	AB144932.1	Z67441
D5S0650i	AB144416.1	D8S0438i	AB144934.1	Z67442
D5S0651i	AB144417.1	D8S0439i	AB144935.1	Z67443

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D5S0652i	AB144418.1	D8S0440i	AB144936.1	Z67445
D5S0653i	AB144420.1	D8S0441i	AB144937.1	Z67446
D5S0654i	AB144421.1	D8S0442i	AB144938.1	Z67448
D5S0655i	AB144422.1	D8S0443i	AB144939.1	Z67452
D5S0656i	AB144423.1	D8S0444i	AB144940.1	Z67457
D5S0657i	AB144424.1	D8S0445i	AB144941.1	Z67459
D5S0658i	AB144425.1	D8S0447i	AB144943.1	Z67463
D5S0659i	AB144426.1	D8S0448i	AB144944.1	Z67465
D5S0660i	AB144427.1	D8S0449i	AB144945.1	Z67466
D5S0661i	AB144428.1	D8S0450i	AB144946.1	Z67467
D5S0662i	AB144429.1	D8S0451i	AB144947.1	Z67468
D5S0663i	AB144430.1	D8S0452i	AB144948.1	Z67469

D5S0664i	AB144431.1	D8S0453i	AB144949.1	Z67471
D5S0666i	AB144433.1	D8S0454i	AB144950.1	Z67472
D5S0667i	AB144435.1	D8S0455i	AB144951.1	Z67475
D5S0668i	AB144436.1	D8S0456i	AB144952.1	Z67479
D5S0669i	AB144437.1	D8S0457i	AB144953.1	Z67480
D5S0670i	AB144439.1	D8S0458i	AB144955.1	Z67483
D5S0671i	AB144440.1	D8S0459i	AB144956.1	Z67484
D5S0672i	AB144441.1	D8S0460i	AB144957.1	Z67485
D5S0673i	AB144442.1	D8S0461i	AB144958.1	Z67486
D5S0674i	AB144443.1	D8S0462i	AB144959.1	Z67489
D5S0675i	AB144444.1	D8S0463i	AB144960.1	Z67490
D5S0676i	AB144445.1	D8S0464i	AB144961.1	Z67494

D5S0677i	AB144446.1	D8S0465i	AB144962.1	Z67495
D5S0678i	AB144447.1	D8S0466i	AB144963.1	Z67497
D5S0679i	AB144448.1	D8S0467i	AB144964.1	Z67501
D5S0680i	AB144434.1	D8S0468i	AB144965.1	Z67502
D5S0681i	AB144449.1	D8S0469i	AB144966.1	Z67503
D5S0682i	AB144451.1	D8S0472i	AB144969.1	Z67505
D5S0683i	AB144452.1	D8S0473i	AB144970.1	Z67506
D5S0684i	AB144453.1	D8S0474i	AB144971.1	Z67507
D5S0685i	AB144454.1	D8S0475i	AB144972.1	Z67508
D5S0686i	AB144455.1	D8S0476i	AB144973.1	Z67511
D5S0687i	AB144456.1	D8S0477i	AB144975.1	Z67512
D5S0688i	AB144457.1	D8S0478i	AB144977.1	Z67514



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D5S0689i	AB144458.1	D8S0479i	AB144978.1	Z67515
D5S0690i	AB144459.1	D8S0480i	AB144979.1	Z67516
D5S0692i	AB144461.1	D8S0481i	AB144980.1	Z67518
D5S0693i	AB144462.1	D8S0482i	AB144981.1	Z67519
D5S0694i	AB144463.1	D8S0483i	AB144982.1	Z67521
D5S0695i	AB144464.1	D8S0484i	AB144983.1	Z67522
D5S0696i	AB144465.1	D8S0485i	AB144984.1	Z67523
D5S0697i	AB144466.1	D8S0487i	AB144986.1	Z67524
D5S0698i	AB144467.1	D8S0488i	AB144987.1	Z67525
D5S0699i	AB144468.1	D8S0489i	AB144988.1	Z67528
D5S0700i	AB144469.1	D8S0490i	AB144990.1	Z67532
D5S0701i	AB144470.1	D8S0491i	AB144992.1	Z67540

D5S0702i	AB144471.1	D8S0492i	AB144993.1	Z67541
D5S0703i	AB144472.1	D8S0493i	AB144994.1	Z67544
D5S0704i	AB144473.1	D8S0494i	AB144995.1	Z67545
D5S0705i	AB144474.1	D8S0495i	AB144996.1	Z67547
D5S0707i	AB144475.1	D8S0496i	AB144997.1	Z67550
D5S0708i	AB144476.1	D8S0497i	AB129352.1	Z67552
D5S0709i	AB144477.1	D8S0498i	AB144999.1	Z67555
D5S0710i	AB144478.1	D8S0499i	AB145000.1	Z67556
D5S0711i	AB144479.1	D8S0500i	AB129353.1	Z67557
D5S0712i	AB144480.1	D8S0501i	AB145001.1	Z67559
D5S0713i	AB144481.1	D8S0502i	AB145002.1	Z67560
D5S0714i	AB144482.1	D8S0503i	AB145003.1	Z67562

D5S0715i	AB144483.1	D8S0504i	AB145004.1	Z67566
D5S0716i	AB144484.1	D8S0505i	AB145005.1	Z67569
D5S0717i	AB144485.1	D8S0506i	AB145006.1	Z67570
D5S0718i	AB144487.1	D8S0507i	AB145007.1	Z67572
D5S0719i	AB144488.1	D8S0508i	AB145008.1	Z67576
D5S0720i	AB144489.1	D8S0509i	AB145009.1	Z67577
D5S0721i	AB144490.1	D8S0510i	AB145010.1	Z67578
D5S0722i	AB144491.1	D8S0511i	AB145011.1	Z67581
D5S0723i	AB144492.1	D8S0512i	AB145013.1	Z67582
D5S0724i	AB144493.1	D8S0513i	AB145014.1	Z67584
D5S0725i	AB144494.1	D8S0516i	AB145017.1	Z67586
D5S0726i	AB144495.1	D8S0517i	AB129354.1	Z67587

D5S0727i	AB144496.1	D8S0518i	AB145018.1	Z67588
D5S0728i	AB144497.1	D8S0519i	AB145019.1	Z67591
D5S0729i	AB144498.1	D8S0521i	AB145021.1	Z67592
D5S0730i	AB144499.1	D8S0523i	AB145024.1	Z67593
D5S0731i	AB144500.1	D8S0525i	AB145027.1	Z67594
D5S0732i	AB144501.1	D8S0526i	AB145028.1	Z67598
D5S0733i	AB144502.1	D8S0527i	AB145029.1	Z67599
D5S0734i	AB144503.1	D8S0530i	AB145033.1	Z67600
D5S0735i	AB144504.1	D8S0531i	AB145034.1	Z67601
D5S0736i	AB144505.1	D8S0532i	AB145035.1	Z67603
D5S0737i	AB144506.1	D8S0533i	AB145036.1	Z67604
D5S0738i	AB144507.1	D8S0534i	AB145037.1	Z67605

D5S0739i	AB144508.1	D8S0535i	AB145038.1	Z67609
D5S0740i	AB144509.1	D8S0536i	AB145039.1	Z67614
D5S0741i	AB144510.1	D8S0537i	AB145040.1	Z67618
D5S0742i	AB144511.1	D8S0538i	AB145041.1	Z67619
D5S0744i	AB144513.1	D8S0539i	AB145042.1	Z67620
D5S0745i	AB144514.1	D8S0540i	AB145043.1	Z67621
D5S0746i	AB144515.1	D8S0541i	AB145044.1	Z67622
D5S0747i	AB144516.1	D8S0542i	AB145045.1	Z67623
D5S0748i	AB144517.1	D8S0543i	AB145046.1	Z67626
D5S0749i	AB144518.1	D8S0545i	AB145049.1	Z67630
D5S0750i	AB144519.1	D8S0546i	AB145050.1	Z67633
D5S0751i	AB144522.1	D8S0547i	AB145051.1	Z67635

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D5S0752i	AB144523.1	D8S0548i	AB145052.1	Z67640
D5S0753i	AB144527.1	D8S0549i	AB145053.1	Z67642
D5S0755i	AB144529.1	D8S0550i	AB145054.1	Z67645
D5S0757i	AB144537.1	D8S0551i	AB145055.1	Z67649
D5S0758i	AB144542.1	D8S0552i	AB145056.1	Z67652
D5S0759i	AB144548.1	D8S0554i	AB145059.1	Z67653
D5S0760i	AB144553.1	D8S0555i	AB145060.1	Z67654
D5S0761i	AB144554.1	D8S0556i	AB145061.1	Z67656
D5S0762i	AB145512.1	D8S0558i	AB145064.1	Z67658
D5S0763i	AB145520.1	D8S0559i	AB145065.1	Z67660
D5S0764i	AB145524.1	D8S0561i	AB145068.1	Z67661
D5S0766i	AB145529.1	D8S0563i	AB145070.1	Z67664

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D5S0767i	AB145532.1	D8S0564i	AB145071.1	Z67666
D5S0768i	AB145535.1	D8S0565i	AB145073.1	Z67669
D5S0769i	AB145539.1	D8S0566i	AB145074.1	Z67670
D5S0770i	AB145542.1	D8S0567i	AB145075.1	Z67671
D5S0771i	AB145543.1	D8S0568i	AB145077.1	Z67672
D5S0772i	AB145887.1	D8S0569i	AB145078.1	Z67674
D5S0773i	AB146431.1	D8S0570i	AB145079.1	Z67678
D5S0774i	AB146438.1	D8S0572i	AB145082.1	Z67679
D5S0775i	AB146444.1	D8S0573i	AB145083.1	Z67685
D5S0776i	AB146459.1	D8S0574i	AB145084.1	Z67686
D5S0777i	AB146460.1	D8S0575i	AB145085.1	Z67687
D5S0778i	AB146461.1	D8S0576i	AB145086.1	Z67688

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D5S0779i	AB146462.1	D8S0577i	AB145089.1	Z67691
D5S0780i	AB146463.1	D8S0578i	AB145091.1	Z67693
D5S0781i	AB146464.1	D8S0579i	AB145092.1	Z67694
D5S0783i	AB146466.1	D8S0580i	AB145093.1	Z67695
D5S0784i	AB146467.1	D8S0581i	AB145094.1	Z67698
D5S0785i	AB146468.1	D8S0582i	AB145095.1	Z67699
D5S0786i	AB146469.1	D8S0583i	AB145096.1	Z67701
D5S0787i	AB146470.1	D8S0584i	AB145057.1	Z67702
D5S0788i	AB146471.1	D8S0585i	AB145097.1	Z67704
D5S0790i	AB146473.1	D8S0586i	AB145098.1	Z67705
D5S0791i	AB146474.1	D8S0587i	AB145099.1	Z67706
D5S0793i	AB146476.1	D8S0588i	AB145100.1	Z67708



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D5S0794i	AB146477.1	D8S0589i	AB145101.1	Z67709
D5S0795i	AB146478.1	D8S0590i	AB145102.1	Z67711
D5S0796i	AB146479.1	D8S0592i	AB145104.1	Z67712
D5S0797i	AB146480.1	D8S0593i	AB145105.1	Z67713
D5S0798i	AB146481.1	D8S0594i	AB145106.1	Z67715
D5S0799i	AB146482.1	D8S0595i	AB145107.1	Z67716
D5S0800i	AB146484.1	D8S0596i	AB145108.1	Z67717
D5S0801i	AB146485.1	D8S0597i	AB145110.1	Z67718
D5S0804i	AB146488.1	D8S0598i	AB145111.1	Z67720
D5S0805i	AB146489.1	D8S0599i	AB145112.1	Z67725
D5S0806i	AB146490.1	D8S0600i	AB145113.1	Z67726
D5S0807i	AB146491.1	D8S0601i	AB145115.1	Z67729

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D5S0808i	AB146492.1	D8S0605i	AB145119.1	Z67730
D5S0809i	AB146493.1	D8S0606i	AB145120.1	Z67731
D5S0810i	AB146494.1	D8S0607i	AB145121.1	Z67732
D5S0811i	AB146495.1	D8S0608i	AB145123.1	Z67758
D5S0812i	AB146496.1	D8S0609i	AB145124.1	Z67761
D5S0813i	AB146497.1	D8S0611i	AB146635.1	Z67768
D5S0814i	AB146483.1	D8S0612i	AB146636.1	Z67776
D5S0815i	AB146498.1	D8S0614i	AB146638.1	Z67780
D5S0816i	AB146499.1	D8S0615i	AB146639.1	Z67788
D5S0817i	AB146500.1	D8S0616i	AB146643.1	Z67797
D5S0818i	AB146501.1	D8S0617i	AB146644.1	Z67830
D5S0819i	AB129381.1	D8S0618i	AB146645.1	

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Table III. Redesigned primers of microsatellite markers for individual typing

Registered ID	Dye	5' primer sequence	Amplicon Size	Unit	Repeat number
		3' primer sequence			
D17S0351i	FAM	TGAGTTATGTAAGAGGCAGTTGGTTT  GCCTGCATAATTGAATAAGTCAGTTT	260	ATAG	12
D13S0183i	FAM	CAAAAGTCAATTTACAAAGATGGGTAGA  CCCAGAGACACATGCATTAAATTTA	290	TATC	13
D4S0818i	FAM	TTTGTCTGTGGTGCAAGGTTAGG  CACAAATGGTGCTGATCAATTGA	158	TTCT	22
D20S885	FAM	TTGTGCCCAGCTTATTTCACTCAG  CGGAAACAACCTAAGTGTCCATCTA	187	TG	17
D3S0865i	FAM	GGTGAAAGGAGGGCAGAAGG	212	GATA	12

TTAAGTTTCTGTGGTATTATGATGTCTGTC

D3S0046i FAM CTGGGTGACAGAGCTAGACTCTTGTCAG 260 TTCT 9

GCATATGAACATAAATGCATGTAATAGTGGAAA

D4S0370i FAM CCTGCGAAGCTAAGCACAAATTATAA 92 TG 15

TGATTTAGCCAGTTGGGTTAGGTTTA

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For individual typing of 54 MS markers which remained statistically significant in association with essential hypertension in all three screening steps, PCR primer pairs of 7MS markers were redesigned in order to improve the efficiency of PCR.