

High density linkage mapping of genomic and transcriptomic SNPs for synteny analysis and anchoring the genome sequence of chickpea

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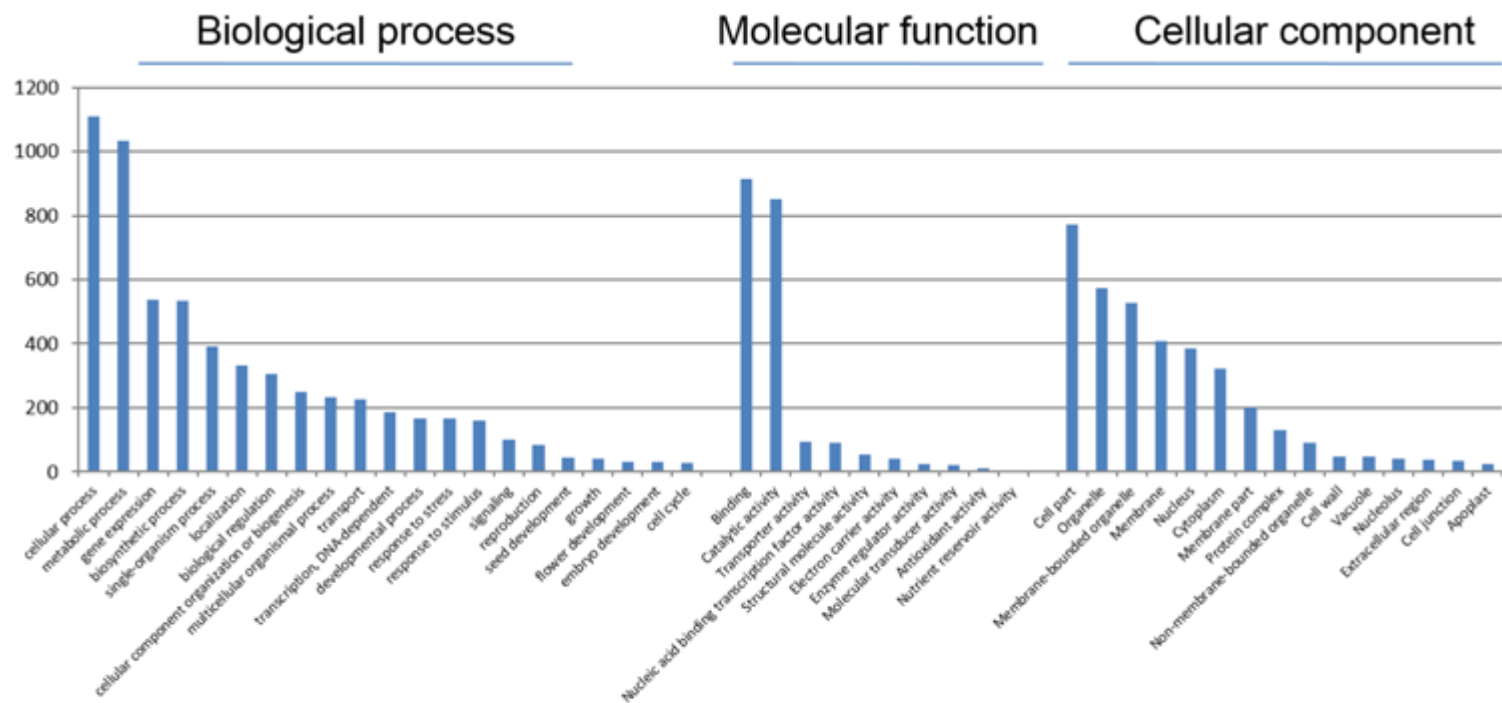


Figure S1. Functional annotation of the gene derived markers based on GO terms

Table S1: Characteristics of the 6144 SNPs which were used to design the chickpea Oligo Pool All (CpOPA-II and CpOPA-III) for use in the Illumina's GoldenGate Assay. Locus name, target SNP and sequence flanking the queried SNPs (in brackets) are mentioned.

S. No.	Locus	Sequence
1	CaSNP1919	CCTCACAACAGAATCTCTGACTAAAGGGCAATTGTTGTTCAAATAATCTCAAAGGATGCT [A/G] GTTACAAACAAAATAGTGATCCTACTCTGTAATCCGCTTATATAGATACAAACAACAAAC
2	CaSNP1920	TCTTTTTTTATCAACAATCTCATGTCCATTTATGCATCATGCACAAACTAAACTACCTA [A/T] GACAGTTGGACAGTGTACATTGCTCAATAACTTTTTATCCGATATATATTTTTATCTGAT
3	CaSNP1921	TTAATTTATAATTAACCCAAAAGAAAAATGGAAAACAGAATATGACACAAGCGACACTGT [A/T] CACTCATATAGAAGAATTGAAGTGTCCAATGAATTGTACCTAATTATATGTATGTATGTA
4	CaSNP1922	CTCAGTTTCAAACGGTCCAACATCAATACAGTTCCTAGATACTCCGGCTACACTTTGT [A/G] TCTCGGGAATTCCACGCGAATTGACTAACCGGTTGAAATATTAACCTTTGCATCCAACCTT
5	CaSNP1923	TGTTTATGCATAGGTTACATGAGGTGGATGAAACATATCTTTGCCTAATTTAGGAACCAA [A/T] CGTTAAATAATTTTCAGGCATTCTATCTTCCGTGGGCTATGCTTGCTTTGGATGTCATTT
6	CaSNP1924	GATAGCTAGCCAATAATCACGACGAGCGTGACCTTTAAGCTCTGGAAATCTAGTACAGC [A/T] GGTCTGATCTACATGAGAAATAACATTTGAAAGTTGATAGCAAGATAAACTTCTGCAGT
7	CaSNP1925	GATATTTCTAGATCAAATACTTAATTAATGCCAAAACCTGAGTATATGCAAATGATAC [A/G] TGTACTCTCGAATAGATTAATTGAATCAGTGTGGACTGTGAAGAGTTTATGCTTGCCAACT
8	CaSNP1926	GGATCCATCAACTGCATTTTCTGTCTTTGCGGTATTATTTATTTTCTGGTTACTTCTGT [T/C] ATTTATTTGAGTTGAGCAATTTAGTTTTAGGTCTTGTTTGGATAAAACAACCTATTAAGAGC
9	CaSNP1927	ATTAATCGGAGCTAGCTTTTTGTGTTTTCTTCTGGTCGCCAAATATATTGTATGACATTA [T/G] ACTCCCTATTTTCATCTTACTATTATTCTTAGTAGTTAGGTATATAAAGTGTTTTTCTAA
10	CaSNP1928	TTTTTATATCAATGTAGAATTCAAATTTGAATTATTATAGAATTTGAGTTGGAAATAGGC [A/G] AATACACACTAATTTATCTTTTATCTTTTGCATTCAAATCTTCTAGTATTGAAACATGT
11	CaSNP1929	TCTAAAATTACAACGGTTTACAACATGCGAGCTATATTTCACTAGGAGTTCAAAACACA [T/G] TCACATCGAAACAAGTGTAACCAAAGGAGTCGATGAGTATCACAAAGCAGAGAACATACT
12	CaSNP1930	AATTATGTCTAATGCACGTGTCTCACATGTATAATAAGCATCCAGCGAGTGTCAAGTTAC [A/T] ACAAAATTTAGGAACTTCGTCCAATCAAGTATTTAACATAAGTTGCAAAATGGACATGAC
13	CaSNP1931	AATGCTGACAAGGAGCACCTCCACTTCTGCAGCGGAAAAAGCTCATGCTACGAGGTAAT [A/G] GGATAATAGAATATAACAAGTAGAGGGAGGCATATACCTTACCTTGTTTGCGGCCAGAAA
14	CaSNP1932	GTTTTAGGTAACATATTTCCATAAGACATTACATCATTTCTATGACAGCTGATTGGGAGC [A/G] TTGTGGATTGTTTCAGTTCATCAGAAATGGTTACACTCTCCAACCTTGGCGAATTTGCGAGC
15	CaSNP1933	TGTTATTTCTGAAAGTGATTCTTAGGTCATATTGATGTGCTCACCTATAAACTAAGTT [A/G] GGTGCGTTGTTAGCCATACTAAGAACATTTATTTGTAGTAACTCTAACTTTATGGTAAAGT
16	CaSNP1935	AAAAGGAGCTAGCGATGGTAAATTAGTAGCTAGTGTGACTGCAGGAAGTGATACAGTTGG [T/C] GCCTTGTTTGGAAGTACTGTTGAAAGTTTTCAGGAGCTAGTGTAGCCGAAAGGTGCTGGA
17	CaSNP1936	GTACCTAAACCAATCATAAAATGACAAAATCCTTATTATTGCTGGTTAAAGTTCAGAAAC [T/C] AACTTAAAGTTGGTCATCATATACTGATGGTATGGAAATAGAAAATGAAAGTATAAGAA
18	CaSNP1937	AACTAACTCATGAATTGAGAGAATCTATCCCAAGACCCAATTACCTTCTTATGTTTAACT [T/G] CTTTTACCTACTAATTTCTAGCTTGACATAAATTCATGTTTTGCTTTTTTGTATGATGGAT
19	CaSNP1938	TCGATCTAGTTGGATATAATAATATAACTAACAAAATATTCGTACATGGCTATGGATCAC [A/G] TATGTGGTTCGTGCGAAGTTGATTATTATACGAAGATAAAACAATAGTAAACGAATAAATC
20	CaSNP1939	CACCTGCACAAGCAAATAATGCTTAAATTAATCAACTCTACGATGTATCAATAGTTTT [T/G] CTCCGTTTTTCTCTACCCCTCTTAATATGCAATGTTTCTTCCAAGATAAAATACTAACAA
21	CaSNP1940	CATGAACCCGGATTATCTATTCAATATAATTATTTACATTATTTTCTGGGATTTCTACC [T/G] GAATTACACGATACAACTCTCAGCACCAGCCCTTTTGGTCAATTTCTCCATCTTCATT
22	CaSNP1941	CATTTGCATCTTTTCAGCTGTACAACGAATCATCAAATACTTATTGGGTACTCCTAGTTCG [A/G] ATATCTTCTTCCCTAATAGTTCAACAATACAACCTCAAGCATAAATGATGCTGATTGGG
23	CaSNP1942	CAATTCCTAAAAATAAAAATCAAGAAAATGCATCTTAAATGTATTTCTATAATAACACCA [T/C] TAATTCAAAACCTTTGATTGAAATAGATTTTACCTATCACTACTTGATTAGCAAGAGTAG
24	CaSNP1943	TATGCATGTAACACAACCTAAGAAGTTAGGAAGAACAATAAGATGGTGGCGAAGAGGGAAG [A/G] GAACAGGATTCATTAATAAAGTGAAAAATATAACTGATCTCACTAGAAAGCAATTATCAT
25	CaSNP1944	CTAGAGAACTCAATTGCTTTGGCCTGGTCTTCGTTGATATTTCAACCTTTGCATCACACC [A/G] TGTTCTTTGCAGAAACCTTTAACCTTGAAGTTATTTATTTTAAAGCAGATTCCGGCATAG
26	CaSNP1945	CATTTGATTTGTGTGTGTGTTTAAAAACATGGCAACTTGAAACACTAGAAACCATTA [T/C] AAGATTAATTTGATGGAATGAGAAAAACCTTGCTGTTCTGGAACCTTCTGCAGCACCAT

27 CaSNP1946 TGAAAGAGTTTCAGTCTCACAACACCGATTACCCAAAAATCAACAATTCAAAACTATCT [T/C] CATTGTTTCATTGAGAAAGAACTTCATCCAGAAACCTGTTTGTTCGAAAGCATTTTAT
28 CaSNP1947 AAATAACCTTATAACCATCAGACTAACATCTATATCTGCATGTGTTTTTCATGACCTTGCA [A/T] TGAATTTTGCACAAGGTTGCACATCAAGATTGATAAACTAAATAGAGACAAACTACAGG
29 CaSNP1948 CAAGTGATTAAGTATCCAATCACATAGTTTTGTTTCGATGCACTAATTTGTCTATATGCCA [T/C] CGTCGTATCATAATATTGCTTCTCAAAATCCTAGCCCAACAATTTTGTATATAGATATAA
30 CaSNP1949 GCCAATCCAAGTTTGCAGCCACAAATAGTACGATTTCGTACTGAGTTAAGTTGGCTACTG [A/G] AGCAAATGTCTCTTCATAGTCTATGCCAGATGATTGGGTGAATCCCTTTGCTACTAATCG
31 CaSNP1950 GACACGCTTTCACCCACTGATATCAGTAAGGTTGGATTATCTTCATCCTCGTCAGCAGC [A/C] TCTAGTTCACCTCCGATCTGGTACATCGGTTGTAGCTGATGGAATGGTGTGTAGTTTT
32 CaSNP1951 TGCTCTAAAACATAACTGAAGCTAGCTGCTTAAAAGAAGCTAAAAAATTGAAGGGCAACT [A/G] TTAATAGTATTGTCTCCGTAAGTTATCACATTATTAGGATTGAGTTCAGAGCAAAGGAA
33 CaSNP1952 TCAAATCATAAGACAAATGCACAGGCGAGTCTCTACTCCTGGCACATTAGGAGATGCGA [A/C] TTTGTGATCTTTCAGCTTGCACTATTCATAATCTGATTGTGAGATTGATGTTACTCTTT
34 CaSNP1953 ACAATACCTTAATTTCTTCATTAACGGACTCATCGTTAGAATCAGAGTTAGGGTGTAGTAT [T/C] TGTCATCACAAACATGTTTGCATGTCTTCATCTTCATCAGATGATTCATCAGAGTCATC
35 CaSNP1954 ATTTTCTTGACAACACTGACTGCTGTGATATTAGAAATCGACTCTTACCAGCGTACCAAC [A/G] GAAAGAATGTGCGAGAGCATGTGCACATTAAGAGCCCGCCAAAATACTGGCAATACAG
36 CaSNP1955 AATCCAAATATCAACAAAAAGAACCAAAACATTTTCCATTAGAAAAGTTGGTTAATTGGA [T/C] CAAATGGCATCATGTCTATTGTATATTACGCCTAGAGAAAATTCATTTAAATAATGCTT
37 CaSNP1956 AACAGAATATTTGAAACAATAGCTGCTTGAGATATAACATTACAGCAAACATAACAAAAT [A/G] AAGACACTAATAAATGAGTGCAGTACAACGGACTATGTATATCATTCATAATCAAGATA
38 CaSNP1957 TCAATAATATTTTCTGATGTGATATATTAAGAATCATACTTGATGCCCTCCCAAGTAAT [T/G] AATTGAATTAGATTATGATGCTATTTGTTACTAATGTTGTTTGCCTTGACAGTTAAGCCG
39 CaSNP1958 CAAAAAACCAATTACTTAAAGTAATTTGGAGGGGTGACTCCTCTTACTTTATATTGAGC [A/C] TAATTCATTTTACAAAACCTAAGTGTGAAATGATGGGTGTCCTACTTTATAAATTATTA
40 CaSNP1959 TGAACATGCTGCACATGCTAGTGTAGAAAGTTAATCATTATTACAACCAACATGGTCTT [T/C] AAAGGAAGATTCTTCTCTTCCAAAAAATCTGATACTTCAAGTCCAGATGCTTCTTCAAAC
41 CaSNP1960 TTAGGTTTTGCATAGTAAATAATCACTGTTTGAATAATCCTTAGAAGTATTAATATCTTT [T/C] TTGTGATTTGGTGTACTAAGAGGATCATAAAAATTAACATAATTGAGCTAAACATCGAAAT
42 CaSNP1961 AAACGTGTATATATGCAGATCTTGATATAGAGACAAATGGGAGATCACTTGTTCGAGAA [T/C] TATCATAACAACCTCTCCAGCATTTTCTGATGAATTAGTAGCTTTGTTTAGTAGCAAGAC
43 CaSNP1962 GAACATTTACTACTGGCCAGTATTGTAAGTGTGTAACATGACGTAGTATATAGGAGA [A/C] ACAATTGCTGTGTTGAAAGTGTCAAGAGCCTGAAATGTTAATAATCATGTCCAGCGAAGCAT
44 CaSNP1963 TACTATGCTGCCACGTGTTATTATATCAATTAATTAATCCATGTATGTATGTCCCGGCG [T/G] ATTAATTTCCATATAACCGTTATGATTTGGGCTCCACCACATAAAAATGGGCTTCTATTCT
45 CaSNP1964 TATATAGATTTCTTCTCTACAAGCATAACAGGTAACCTCTATAATACATCAAGGCATCGTCT [T/C] CATGAGTAATGGAAGTTATTTTTCGCCCATCCTTAGTGAAGAATAATTTTCTCGTTTTA
46 CaSNP1965 CCATACATTTCAATTCTTTATTTTATTGATTTAATTGCCAAAGGATAGCAATCTCTGCAAC [A/T] CTTCTGCATAACCTTGATGTAGTCAATGGCAAAAAGCAGTGTGCATAAATATATAAGAAT
47 CaSNP1966 AATCTAATTCAAACATCAGAAATGGTGAATATAGAAATATTAACCGGACAACATGATGA [T/C] ACAAGATACTGGAGAAAAGTAGGATGCCTATATTTTCATACGGAACAAACTGAGCCAGATT
48 CaSNP1967 TCAGAATGTTGCTCCTGCACATGCTCCGGATATTGTCATATTTATAGATGCCATTACAAT [T/C] ATATTTGACGAAGCTACAAAACCTGGACCACCATCATCATTACCATTTGCATGTATTGAA
49 CaSNP1968 ACGTAATTTTGTGTTTGGTATCTAATTTTATTGATTTGAAACCTTCGAAACTCTCATGGCACTG [A/G] TGTTAGGTGAAAGTGCGAATAGTATTATTTGACGTGAAAACAAATTTTCTGCTTGTAC
50 CaSNP1969 TCGAATATAGTTTTTAAAAATACAACCTTAAGTTAAGTCCCGTGAAGGCAAAGATTCATA [C/G] ACTAGTATAAAAATAATGTCTCTAATTGATATGTGTATTAACAAATATGTACTGATAAGCG
51 CaSNP1970 ATTGCTCTTAGCCGAAATGATGATCCCCAAATCCTTCGTGATTATCACTGAGCACAAT [A/G] AGGATAACATGGTTTTGGCTAGGTGACAAGATGGATTGTTTATCGATCTCATCTACTTATA
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53 CaSNP1972 CCCATCCGGTTGACATGCCTTCATAAAACAAAATGCCATGAAATCGAAAAAGATTCCTGGA [A/T] ATGGTCTGCAATATTGATATGATATGATCCAACATAGTTGCCAAAAAATTCATCATGTAA
54 CaSNP1973 TCAGCCCATGGCATACTTCTGAGTCCAGCTGCGTGCAGTGGCTTCGTACTTAGCCGGTC [T/C] GTTTTGTACATATGAGCAATCTCGGGTACAAGCGGGTCATCAGGATTTGGATCAGTCAGC
55 CaSNP1974 AATCTCAAGTAGTATATACTTTTCAGCATATAAGCCATAGTAGTACATTACAGCCTATAAC [A/C] ACTCACTTTTGTCTTGAATGGTTAATAAACCAAATGCAAAATGGTTGTGTTACATTTCT
56 CaSNP1975 AGGTAAATTTAGCAAAATGTTGCCAAAATCACCATAGCACACAATGATTTCTGTCAAACCT [A/G] CCGCTAGCAAATGATTCCAAATAATATAATGTAACCTTAACAATAATGTTGAATGCAAG

57 CaSNP1976 ATAAGAATAGTATACGAATTACTATATGTGAATGGCAAAC TAGGTAGCTTCATCAGACAG [A/G] TTTATGTTAGAATTTAGTAAAAACAAC TGAAGTATAGACACCC TGTATAAATGGCATATA
58 CaSNP1977 GAATTATAATCAATTATCTACATCCTATTATGCTTTTGTGGCTTCCTTGGATTCTGTGTGC [T/C] ATTCGGAAAAC TACATGTGAAGCTATGTCTGATCCTTGC TGGCGACAAGCAATGATAGAT
59 CaSNP1978 GAAGAGTTACTGCAGAGAGACGTCGAAAAAGATGATTTTCGAATGGAGACTCGGCAGAC [A/G] GTCGACGATGATGACAAAGAAGCGGACCATGGAGGGACGTTG TCACTTTCTTTAGACCGA
60 CaSNP1979 GAGGAGTCTGTTTGAAGAAATGATTGACTCAGGGATAGCCCCGAATGAGAAGACTCTAAC [A/C] GCAGTAATTAAGATATATGGAAAGGCTAGATGGTCTAGAGATGCTCTAGAATTTG TGGAAA
61 CaSNP1980 TGAAAAAGAATCTCCCATTTACGTATATAAGAATCTACCATATACGAAAAAGAATCCTTG [T/C] AGGTGTGAATCGTCGCTCCTCTCAATCGGATGCTACTACTCCC GTGTTTGTGTCTCTG
62 CaSNP1981 CTATTGCGGATGTTGTTAGGAAAATACTTGATTAAGAACATGTTTCTGAATACAACCCAA [A/G] TAATTGCAGTCCCTGCATTATCTAAACACTGTCAATGATGCTATCCC ACCATTGTTTCAGCTT
63 CaSNP1982 CCATTACTTGGCATCTACACGATCCTCATAACAATACACTTTATGAAGGCTTTTTACCTA [A/C] CTCAAAAATATTTGTTTTCTTGTAGTAAATTGTACGTAAACATTCTGAATCTATCTTTT
64 CaSNP1983 AATTTAAATTTATTTATCTACTACATGACTACTGCGATTGATGTTATATTTTGAAGTTTA [T/G] CCTTTAGAATAAAAATATTAATGATTTTTATCATTTTTAATATACTAATTTATTGTTTGT
65 CaSNP1984 AAAACACAATCTATGCCGTAGTATCATAGAAACTTCAATTCTGGTCATATGTTGCACATC [A/G] TAGACACCAAAATTACAATAAGATGAAATACTTGTATCAAGATGAGTGTGATGCATATAG
66 CaSNP1985 CATAATAGAATTTCTATATTTAAAATATTTCAAGGAAATAATATCACATTTTTAACACCAAAAT [T/C] ACTCAAGTAAAATCAATATCTCATGTAATATCAAATCATCTAAAAGATATTATCATCAC
67 CaSNP1986 CAACACCAAGCCTATTGCACCAACCATTGTCAACCTATTCGTCGACTCATACCAAAATGA [A/C] TCCTATGACTTTTTCTCTCCCACTTTATCATTTTTGGCAATTGTCCACTCCACCCAGCCTTC
68 CaSNP1987 CTGGGAAACTGCAGGACTTGATGCCTGATGAGAGATCCTCCCTGGAAAAAGATACCGAGT [T/C] GTTGCAAGAGGGTTGGGTGCAATACACAGTTCATTATTGATTCAATTGACCAAAGTACCTC
69 CaSNP1988 AACAAAGTCACCATCAAAAACACGTATCCATTGCCACACATTGATGACTTGATGGACCAA [T/C] TCAAAGGAGCAATCATATTTTCAACGATTGATCTGAAGTCGGGGTACCATCAGATTCCGT
70 CaSNP1989 CTCATATGTTAATTACTGCACAATCTACTATACATTGCTGAATTTGCTCTGAAATTTCTAT [T/C] CTGTTTTGCATTTTATGCAGGAAATGATATAAAATGCTCTTCTTTGGATTTCTTGGAAATTA
71 CaSNP1990 TCTTCTTAGAGGATTGAGATGGTTGGGAATTAGGATATTCACAATATGTTGCATTAACAC [A/G] TTGAAAGTAAGAAGGGTCTCGATATACATCATATCCATCCGACTTCTTACACGTACTCTT
72 CaSNP1991 CCATCATCTGCATCATACGCTTCATCTGCATTTGTTTGTGCATCTACATCTGATCTACAT [A/C] TGTTTGTGCATCTAAGTGTGGTTTTGCATAACATTTGAATAGATGACAAGTACTTGC AA
73 CaSNP1992 CCCGCAGAAGGGCCCGGCACTCTGAAAGAGAGAAAACAAAATACATGAATCAGCTAAAAG [A/G] AATACAAGGTGAACACCAGTCCAATAACATTACACAGGTAAAGAAAAC TGAATCAAAAA
74 CaSNP1993 GATGATGCATAAGTGTCTTCTCTATAGTATATAGTATTCTGCTCGAGGTACATGAAAAGT [T/C] TTTACAAGACCGCGACACATAATGATTCAGCGTGAAGCTCAAATAACATTCA TCTGCTTGT
75 CaSNP1994 ATTACTTATGGATGGTCAAGTGACAAGGTATGAACGAGTTTGGGCCAAAACCCCAATCT [A/G] GCCTTTGAAAAGTATTACATATGCAACAATATTAAGTAGAATATTACTTGC GTTTTTAT
76 CaSNP1995 GTTCACTTTAGGAGAGTTGATCCCTAATTTGGTAGTTGAGTATCTGAGAGATAATCGTC [A/G] GGGGAATAAGAGGTCATACATTCAACTCTTCCACTAACAAAGGTA ACTATTAATGTGATA
77 CaSNP1996 CCTTCTTGTTCTCCTACCAGTACAGTCTACTCTGATGCATATGGGGTAGTTAGTTT [T/C] GTATCTTGCTGATCCACATCAGGTTTTTGCAGTTTTTAGGCTCATTTCTCACTGATTGAA
78 CaSNP1997 TCTCTAAAGAGCCGCAATTC AAGTTTAAACAATACTATGTTGAAAATGGCCAAGTCCATT [A/G] AAGGTTAATTCACCAACAAGAATGAAGTATGCTGGTTGAAAGAGAGGCGACCAAGTCAC
79 CaSNP1998 ATCAATCTGAAGAACTTACAATCTTAATCTAAACTAAAAGGAACATAATCAATTTAAAAA [A/T] TTTACAAATGCAATATGAACAAAATACAATTCAAAATTAACAAGGATAAAAATGAA TCT
80 CaSNP1999 AAAGTAGAAATGTGGGCCCCATCATTCATGTTTCGATGCTTATCGGAAAAC TTAATGTGCA [A/G] TGCACCAATACAGTAAGGCTCATATTGAATTGAATGGATGCTTCTAATGATTTTTAA
81 CaSNP2000 TGAGTATCTCCTGGTTGAGAAGCTTGAGAAATCAGACTCATTTGGACTTGCTGAGGCACAAA [A/G] TTGAACTTCTTGTGTTGCGGAGTTTTGTGCAGTGGACATTATACTTTATGTTGGTATGTC
82 CaSNP2001 ACTTACAATACATGTCCAACATGCATTC CCCATAATGGTCGTGAAATCCAATTCATTTG [T/C] GATATAACTGTGAATCTCCTTGCCAAGCTCCACATGCCTCAATGCCGCACAAGCGGTTAG
83 CaSNP2002 CCTAGACTTTTGGAGAACTAACCAACTTGACCCTACAAGCCAAGTCTTCTTCTAACAAACC [A/T] GACA ACTCTAGATTGAATAAGGAACTAGACCAATATTAGGTTGGATACAAAAGATTGGAA
84 CaSNP2003 AGTGTCTGTTTTGGCATCCTGCTGCACTTTTAGTTTCATATGTTCCTTTTGTTGGTTGT [A/G] TTTTAGTTGTTTAGTTTTTTTCAGCTCTTAAGGTTATCTTATCCTCACCTGTGGTTTGCTT
85 CaSNP2004 CATCAGACAAATATAAAGACTGAATGTCTTAGAATCACGCGGCCACCCTGTTTATGTCTC [T/C] GTATTGCTTTCATTCACCTGTGTACTGGCCATCTCTAGTTT GATTAGTTTTGAAATCA
86 CaSNP2005 GTATTTTCTGTAATTTGATTGTATTAATATATACCATATTACACAATTTTGATTATATAA [A/G] CAGTAGGCTGTTGATGTCAGGCTACTCTATTTATGTTATTTTACTGTTGCAGGCTC

87 CaSNP2006 ACACCTTTATCTTTCCACCAGAATTTCTGAACTTTGTGGAGTCAAGAGTATCTAGAGTCA [T/G] ATAGAGCCTTCGCTTTCTTAACAACCCTGTTGTTTCCTTTCTAAAAACATTGTAATAGT
88 CaSNP2007 TATTCTACTTCTGTTGTAGACAAAGCAATAATCTACTCATTCCACAATAGTTGCTGAAGA [T/C] AGAGCAATAGTATACTCCTTCCACTATGTGCAGACAATTCCTCTATCTATGACATAATAT
89 CaSNP2008 ATAGGATTAATTTACTTCAGTAAATATGACAGACATATGAAGAGCTCCAATTAATTCCA [T/C] CGCCAAAAGCTACATAGGGATATTATTATTTTTTAATTAACAAAAGGCAGTAATTGGC
90 CaSNP2009 GTTGTATTAAATATCATCTATCATATAATGCAAAACGGCTAACAACTAAAGCAAAATCG [A/C] TTGACGGTTAAGTCACGTGGGTATCAAGTCTAAATGGGTATGAAGACCAATAAAGACTCT
91 CaSNP2010 ATTGAAGCTGTTGCAGAGTCAATGGGTCTTAAGGCCATTCTCGCAGTTACAAGGTATGA [A/C] TTTGCAATACATACTTTACACATAATTCATTCAGAGAACTAATTTTGTGATTAATCCT
92 CaSNP2011 ATGACATACAAGTGTAGTATCAAAATTCAGCGTGCCTGAGCCTAGGCCATGTGGCAAAG [A/G] TTTACTACAGAGATGTCAGTATAAAAAGGGTCAATTCCTTAGAATTAGAAACCAACAAAC
93 CaSNP2012 TATCAGAAAACAAATTAAGAATCATGACAACTTTATGCCAATTTAATTTAGACCATAGG [A/C] GAAGAAAACGTACCAAGAATAATGAAATAGACGATGAGGATACCAAGGTTAGTTGTGAT
94 CaSNP2013 AACCAATCCAATTCCAATCTTTGAAGGTGTCGAATTCGGTGTGATATACCTGTGATTCT [A/T] CGAGCGAGCGGGACAAAAACCCTGCTATAAAGGGATTAGGACAAACATGAACAATAGA
95 CaSNP2014 TGAGTATCTATTTATGGTCAACAAATACCTCTTCCAAATATAATTATAAAAGATATGTT [T/C] GATAATATGTCCATTAGCCAATTCCTTATTTCTGAATCTGATATGAGCAACTCTTCCAAA
96 CaSNP2017 AATTGGGAECTTAGCTGAATTCATGGTGGAGGTAAGTGTACTGCCATTGGATGTTAATT [T/G] TTGGATAGGTAAATGTTAGTTGTTAGTATGTTATGTTAGCTTCACTGATTGTGAATCTTT
97 CaSNP2018 CAGTCTCCTAGAGCTTGGTTTGGCAGGTTGAGCAGGTAGTACAAGAGTTTGGTATGATT [T/C] GTATTGAAGTCGATTACTTTGTATTTTATCGTCACCTAACCCAAAGGTGCATCTATCTTA
98 CaSNP2019 AGACTTTGAAAGCCACAAAACAGGAAATGAACTTTTCAAAAATAACCGAATTTGGTGGAGGA [T/C] TGGATGGTGTCTGTCTTCTCACATAATCCCACTAATATATATCTTAAGGCCCTCCGGCAA
99 CaSNP2020 CCTAGTCAAGCAACTTTGGCTAATGTGCGACCGTGGATAACCACTGTAGGCGCTGGAAC [A/C] TAGACCGTGATTTCCCTGCCTATATCACCCCTTGAAATGGGAAGAGATACAACGGAGTGT
100 CaSNP2021 TAATACATCGATCATAAACTAAATAGTGTATGTATATTTATTGTCAACTCACAACCATA [A/G] ATTTTGAATTTGTTATCATAACTAATTAGAATACAAGATCATAACTTCTAAATCTACT
101 CaSNP2022 CACTTTTATATAGTCTCTTAATGTAACCTAACCAAAATTTTATATAACCATGAGTAT [T/C] TTTTAACTACCTCTAATAGTCCCGCAGCAAGTTGAGACTGTGTAACAATATTTCCAACTTA
102 CaSNP2023 AAGGTAGGAGTAGTAATAGAGAAGATGCAATCATCTCGTATTAGGTGATTGAGCATGCA [T/C] GGAGAAGACTTGTAGAAACAATGTGTTAGAATTCAAAGTATGATTTATTATCTTTGACT
103 CaSNP2024 TAAGATATCTGTTTTTGGACACCGCATATTTCTAATTTATGCAGTAAAGTGTGAAGCCACA [A/G] TATCCCTCTAAGTTACTCTTCAGCAGTGAACATAAAATTTCTATGGTGTAAACAATGATTA
104 CaSNP2025 AAGATGGTAAAAAAGAGCAAGTGAAGAACTGTTAAAACAACCTAGCTAGCCTGTAATGAG [A/C] TTTATCGAGCCGGGCTTAAAAGCCGCTTTGAAAACGGGCTTAAGAATTAGTATCTGAGC
105 CaSNP2026 AACACTATAGAATAAACACATGACACATTTTAATCTTAGTCATTTATACACACCTAAATA [T/C] AAAGTGGCAACACTACACTCTACAAAAATTAATTTACATAAAAAAGATAAAATAAAAGGT
106 CaSNP2028 GCATACTAGATAATATAATTATATACATATGCTTAACATGTTTCATGAATTTTCTTGTG [A/G] TTTTGCAGGCAATTTGTGTCAGAGGAGGATGGGATGGAGTCAATAGCTCACAGATTTCTTT
107 CaSNP2029 CAAATAGAAAACATATAGACACATTTCTAGGAGTTTCTTAACCTAATACCCACTTCTAGATA [T/C] TTCCCATATTTTCTAGATTCTTACATAGAAGTTCTACATGGTTCTAGACTTATCTAATTT
108 CaSNP2030 TAGCTCATTAAAGATCATATGAAATTTAGCTTACAGAGGATGAGCCTAAGCATAAGTAGAA [T/G] ACTTTGGCTTTGAAATCCAAATAGAAGAAGGCTATGAAGATAACAACAAAATCAGAGGAT
109 CaSNP2031 TTACAAAAATATATCTAAAAATTTAAAGTGAACATGAATCATTGATCAAGATCAAAA [C/G] ATCTAGATCTGCAATAGTTGTGATTGTGTGACCTTAGATAATCTATTTCTTGTAAATAAA
110 CaSNP2032 CCAAGATTCGCACGGTATTACATTACAGACTCGTGAACCTCTATGAAGCATTCTATTA [A/G] GAAGATGGGAAATTTCTATTAAGCAAGATGGAAATATATTTACGCTTTTCTTGAATGA
111 CaSNP2033 TGTAAATTTGTTTTAGAAATATTACATAAGTGTAGATTTGAAAATTAACCATGTAGT [A/G] TACAATCGTATACTACTTTGGAGAAGGAAATTTGATTATAAAGTAGTATGTTTAGTGTAC
112 CaSNP2034 TGTATCCATGCTTTTTGGCACCGTTTTCAATTACTTTACAGAAAGATCAATGAATAAAAA [T/C] TTGAGTCAAGGTGCAACATCTAAGTAACTTGCCTTAAGAAGTGTATGCGATAAATGCGACT
113 CaSNP2035 TTCATGTTAAACATGAAACAGTCCATTCAAAATGCAAAAACCTAATACATAAAGAATGTC [A/C] GGAGCTTTCAGCTGTGCAATAAAGTCCCAACAACCAAAAATGCAAAAATGTCATGCAATT
114 CaSNP2036 TCGCCCCAGTCCCTTTGTTTATTTGACCGACTATCATTTTAGATATTCGACTGAATC [A/G] TTGTCAGCTGTATAGCGAAAAGGGATCCATTGGGAGACTCAAGTATATATATCTCAAAA
115 CaSNP2037 GCTTCAACCTGCATGTTTTATTTGTTCTTTGGTGCATGCTGTGTTAATAAGTTGGTGAAT [T/G] GTGATTTATACATATGAATAGGAACTTTGCATGAGGGAAGATGGACGGCAGCAAGTT
116 CaSNP2038 CTGTGATATATAATTAAGGAGATGATTTAGAAAATCATTAAGTTGTATGACGAACAAA [A/C] GATAACTCTTTTAGAGATATAAAACACTACATACCTAATGGCAGATCGAAGATAAAACAA

117 CaSNP2039 ACGTATTACCTGCGGAATTAATTGCTTCGGAACATCCGCAGGTAAAACAACATTTATAG [A/T] AGTGATATTAGTATATAACTTTTTGTAATTATGATTTTATGGTCCAAATTAATTTTATG
118 CaSNP2040 AATTTGTCAAGTTTGACTAAAATATAGTAGTTATTTGCATCTTCATTGGTACTGCTGATA [C/G] CCTTTATACCTTACGCATAAATGTTGCTCAATTGTTGCTGTTTTCTGTGATTGATCTTT
119 CaSNP2041 AAACTTTGAACCAGAAAGCCAAGCACCACGCCTGCTGAAGTTGGTAGAGATATGGTTAG [A/T] GAGTTTGCAGAGTTGTATATGCTGATGCCTCAGTTCTTCAAAGTTCCATTTACATTTGT
120 CaSNP2042 AAATGATATAGAATGCCTTGACCATTGCCTTATTGTATCCTTCGGTGTAAATGACTTGG [A/G] TGGTAATGCTTGCAAGTTGACAGATCTGGTTTCTTATGGTTAGAG
121 CaSNP2043 AGATCATAAGTATTGTTACTGTGTACCATTTTGGGATGAAAAACTGACGCAAAATTCGA [T/C] GAGGACGGTTACTTCGGTTGTGTCTAGTGCGTCGATTGAACGAACAAGGTAGAGTAGAGG
122 CaSNP2044 CTTTCGTCTACACTCATCCCTTCCTTTTAAATAGTGCATGTCTTTCTTTTTCTCTAATACA [T/C] CCATTCCTAATTTTTATCTTAATTTTCATATCTCTCCAGTCCTCTATCACAACACTCCTAA
123 CaSNP2045 AAAGAAATGACTTGTACATTTTAGACGGTCTACCATAATGCACAAGCTTCAATGCTA [A/G] CTCTAGTTTGCATTTATCTACTAGAATATGACATATGAGGTTAGGACATGTAAGTAAAA
124 CaSNP2046 AATATTCAGGTGGTTTTTAGTGCCGAATATAATCCAACAATTGATAACATATATTCAAC [A/C] TTTGTAAATGATATGTCATGTTCCAGGTGGTTTTTAGTGCCGAATATAATCTAAGGGCTT
125 CaSNP2047 GATATCGGAGGGGGGGGAAACCCTCTATGTATGGAGTGGTTGGACTTCGTTATGTTG [T/C] TATTATTTTTAAGATGACTGTTGATACAATGTGGAGTTGTCATTACTTAAGACATAATTG
126 CaSNP2048 CAAAACCTCAAAACAGATTGGCAGAAACGTTCTACAAACTTGCCTCAACTTTCCTATTTAT [A/T] TCATGTTACATCATGTTATTCAAAAAATTAGTGATCAAGTCATTAACCTGTTAAAAAT
127 CaSNP2049 ATATGTGTAGAGGATCCAATTTTAGGTTCAACCATGTGCACCACAATGCTGATTTCACTT [A/G] CCGAACTACGTGATAACCGAACATTGCAATGAACAGGCAACGGTAGAGGAAGATTTTACT
128 CaSNP2050 ATAGCTATATTATAAGTAGTTGACACTAGTCAGCTATTAATTTGTGGAGCCATAAAGCAA [T/G] CACAAAGCGAAGTATTTCTTCGCCTTTTACTAAAGAATACCGTGTGCTTACTTTTCATAAG
129 CaSNP2051 GATATTTTAGGTTGGTCTTTGAGATGTTGGCCTGGTGGCTTGTGCCCTTTCACGATCTAT [T/C] GGAGATATGGATATTGGTGAATTTGTTGTCCTGTACCATATGTAACAAGTGAAGGTT
130 CaSNP2052 TTTATTAGTCATTTCTCAGTGCAATAATCAATCTTAGCAATTTTCAATGCATTTAATTTT [A/G] ATTTATTTTCATTGCATCATTAAATGCCTCATTAAATGCACCATTAATATTCAGTCATTTCTC
131 CaSNP2054 TGTATCTGTAATGACAGAGAACAAGAAACAGAATCATAGCAGAATACAGAAGAATAATG [C/G] AGACAATATCAATATAAAATGTCATGCACATAGAAAATATGAAGCACCTGAATTTTGGGA
132 CaSNP2055 AACCTGAATATATCGTTCCCATGGCTGCAATTGCAAAAACGTTGTGCACATTTACACAA [A/T] ATCATGACTGTGCAGGAGAATAAACTTTCTGCAGTTTGCAGAAAGTGTGTTGACCGGTGC
133 CaSNP2056 TCCAATGGCCGAGATCTCTAACTGCTGTGGCGCATGGAGTTTCGACGCCAGAGACAATC [T/C] GAATATGGGCGGCTAGTACTGTATATAACATGATTTTCATATCATTTTGATACATTTATC
134 CaSNP2057 ATTTTGAATCTAATCCAGGACATGCAATTTGCTTGTTTTTTATTACATCTACCACACTT [T/C] CAGGTATACTGTCTGATTTACATGTTGGATGTGGTGTGTTGTGACTTAAACCAACCTAAA
135 CaSNP2058 ATTTGTGGAGAAGATAATAGAATCTCACAGTAAGTATTGGGCAAGTGTAGAAGCCGCT [T/C] GTATGGAGAGTAGATTAATGAAGAAGGGAAGTCTACTAGTTAGAGGTAGAGGGAGACAT
136 CaSNP2059 ATGCGTAATTTCTTATCTATGAGTAGACAACAACAAAACCTGATTAGCTTTAGTAATGTGA [A/T] AGGCATAATCGACTTTGGTATTTGATGAAGTATTATCACTCCCTTTGGCAAGCCTTAGGG
137 CaSNP2060 TGCAATTATTAATCTCGCTACATGACAGATACAGATATACATAATGAACCATCCGTACG [C/G] AAATGTTCAATCCCACTACAAGATAAAATTCAGACATCATGTAAGGATCATCTATACGA
138 CaSNP2061 TTCTCTCTTTTCCAAGTCTTTCCCTCCCTCCTCTAAAGATGCTATTATGAATTAATG [A/C] AATACGTTTGTATAGCTAGTAAAAACACAGGAAAGAATTGGATTTGTTTAAAGTTCCA
139 CaSNP2062 AAAATAAACCGATAAACTGCTACAAAACCAATAAAAACCGACAAAACCGATGGTTCAAGC [A/G] ATTAGACCGTGTGTTCTCATTTGTTTGCATGATCTTGTATGGCGTAGAAGAAGCTATTG
140 CaSNP2063 AATATTCAAATGAGTAAACATCGTGCAGAGAATTGCTTACTTTGGACCGTGAACCAGAA [A/G] GCGAGATCTTTGGTCACTTTCTGACTCCACTGTCTCAACACATGCAGCCTCTAACTTA
141 CaSNP2064 CACTTGACTTTTATTATATTATAGACATAAAATATGTTGTTGATTGTGCTATATATTAG [T/C] TTGAATATTGTAATTTGTTTACAAATTAATTTCTTTTGTATTTGGTGACTTTTAATTTG
142 CaSNP2065 TTGGAACCTCATGGTCAGGCCACTCAGGATACTGAATATGCAAAACAGATAATGGCGCAT [T/C] TTCTACTGCAACAATATCAATCAAAAATTAATATGAACCAAAATGCGGACATCTTGATG
143 CaSNP2066 TGATAGAGGAAATTAATACTAATGGAAAAAGGAGAGAAATTTGAAAATGTTGAACTTG [T/C] TCGTCGTCTTCCAGATGTTGAGCGTTAACGGAAGAAGATTTCATGGATTTAGTTATGATTA
144 CaSNP2067 GGTGAGAAAGTATCACTGTAATCAAGACCAAAAACCTGAGTATAACCTTTAGCTACCAGA [T/C] GAGCTTTCAGACAATCAATATGTCAATATGACCAACTTTGACTGTGTATACCAACGACA
145 CaSNP2068 GAGTGCTAATCCCTTGAGCATGACTTCTCAGAAGATAATTTGAAGGGACACTCTGGTTCA [A/G] AGCTATTTCCGAGCTCCTATTTGTTCAAGTTTCTGGGAGTTCCATCACTAGAGCCGAGAAC
146 CaSNP2069 AGGGTTTACATCTCATTGATAACCATCTCCTCTTAAGGATACATTTCTCATTGGGGTGAC [A/C] TCCATCTAACAGGTAACCTACCCAAATAAAAACGATGTAGCTAGGTGCACCTACCTTTGCT

147 CaSNP2070 CGACTAGCTTACACAAGTCAAACAATTTGTGTATCATAACAACAAAAATGTACTCACAGA [A/C] ACTATCCAATCTTACCAGTAACATGAAATACATTTAACCCATGAACGTATTTTTTTACAA
148 CaSNP2071 GATGCAGACTAAGAAGGATAGGAATTATTAGAACTATAATCATAATCCATATTGTTTCTT [T/C] ATTTTGATTTTGGAGTTGCTCTAATTATGGAAGCACTTTCCCTTTCCCTTTCCCTTTCCCC
149 CaSNP2072 TAATCTCTTTTCAATACACTACTACTTATAGTTGAGTTCACATGGGTCACTCATGCTAA [A/G] TAACATTTTGGCAGCTACTCTCTATTTAGTGGGACCCATTGGAGAATCTTGCTTTGGAAG
150 CaSNP2073 CTACTTGCTCCTCATATGTTCTCCGAGATTAATCAATGAGAAGTCTCTAGAGTCAATAG [A/G] CACATACATCCAACATTCGTCATAAAGTGAATAGCTTATTCCAACAAAAAGTGGTCCG
151 CaSNP2074 ATTTTCTGATTAAGCTAGTCTAATTTTATTATAAATAAATAGGTGGTGTAGTATTTACCT [T/C] CGTACAATCATTGCAACACGTCCACAAGAATCATCTTGTGATGTTTACATTACAGCTCTT
152 CaSNP2075 ATCCACTTCATCTTCTCTAGGAGCTTGAATATTGAGATCTACCGAACACCTAGAAAAACA [A/T] TAGCACTGGTACGAGCATTAGCAACCATAGTATTGGGAAAGTGTACCTTCTTGTGTCCAC
153 CaSNP2076 AACAAATCAAAATAAGGTACATCGCACACCCCTACCAACCAAGCACAATCTAATAAATTTGTT [C/G] GGGAAACAACCTGGGGTAGATGATGGTCTCTGCATCCAGTCCAGGATCTGGATTTTAA
154 CaSNP2077 GTGATGACCACTCAAGAACTCACAAATGAACAAATTAAGAGACAATGTCACAATGCAATG [T/G] AGATCATAGTACTCGTCAATTTCCCTGTCTTGCCAACTGCTGTTGTCAAATTTAGTTCTC
155 CaSNP2078 GCAATTTCTAAATTTATTATATTTATATACATGAGACGCTGGGCCCTAGACATAACAATACA [T/C] GTATCAAATGCCAAGATGAACTTTCTACAACAGAGGACTTTGCACTTTCAATATTTCTAC
156 CaSNP2079 TTAATAAAAAACCCGACAGCATGATCCCAATACTGTAAGAAAAGTGCATTTATGCATTTA [A/C] AAATTTAATGGTATGACTTTATGTGCTCTTTGTATTATGTTTACTAAGTCTAAATGAAG
157 CaSNP2080 ATACAGTTATGTTATTTTCAATATGTCATATAACTATTCTAGTAGTTGTTCCCTTACTATGA [A/T] TACTGCTCTCTGATTTTGTAAATGTTTGGTGTGTTACAGCTATCAGAAATGTAACAACAAG
158 CaSNP2081 GGACATTTTATGGCAATTTTCTTGCTATGATAAAGAAATGGTTGATGTTCAACACAACAAC [A/G] AATCTTCAGTGATTTCCGTGAGATATTTATAATGTCATGCTCATTTGTTCTTTTGTGAT
159 CaSNP2082 TTCTCTTCTTACCATAACCACCATCGCTTCCCTTTCTCTTTCCGTTCCAAACCTTCACT [T/G] TCCGATAATTCTAACTCACACTCACAATCACAATCTATCTCTTTCTCTAAATCGCTATCT
160 CaSNP2083 TTACCGCCACAAATTTCTAGTTTCTTGTAATGATGAAACTGGAACCTTGTGATTTCTTCTT [A/G] TTCGAGTTGGGAGTGATGAACTTGTAGATGAGAAATCACTTTTTATTTGGAAGCAAACT
161 CaSNP2084 GTTAGGTAACCCCTCTACCTGTTTACTTGAGTCCAAACCACTTCAAATTAATATTGC [T/C] AACCATTTGTTGGTTTGTAGCGGCTACATTTATATTGATAGTGTACTCAAATCTATAGGA
162 CaSNP2085 TACTAAGCCCTTAGGAAATTAATCTTGAACCTCCTCAGTTAGTTATCTCTATTTTCGCC [T/C] AGTCTTGTCTCTCAAACCTGTTGAGTTTGCCCTTAGCTACCTCTACGGTTGATCCCA
163 CaSNP2086 AAAATGCAATAAACGCCAGACATAAGATGTTGTGCATTGGAGCTCAAGTTCATGTACCTA [A/G] GGGTCATCTCTGCAATATTTTGTAAATTTCTTCTGTCTAGGAGGGTTGAGCATTCGTG
164 CaSNP2087 GGTTAGACTCCTCTCTATATATGTATATAAATAGCGATAATTGTGCGGTGAGTTTGGTGC [A/G] ACGGCGTCAAGATAGCAGTGAAGTGGGAATGGCAGATTGGAGCAGTTAGAAGTTGTGGGA
165 CaSNP2088 TTTATGCTCAGCTAGAACTACATTTATTATATTTGAATTACTCTAAATCAAACATATCT [A/T] TTCCTAGAACAAAATCTCTCATTCAAGTCTGGTCAATTTCTACCCAGTTAACTACATACT
166 CaSNP2089 TCACAATATCCCTTATTTTCTCTTTGATATGGATTTTACTTTTTAATTTAATCAGGAGA [A/G] TATTATTAATTAAGAAACTGTTGAGCAGGCATTACGCACCTGATATAATACAATCCACA
167 CaSNP2090 GTTTTGTAGTGGTGATGATGGAGGTATGAGATGGTGGTCAATAGTGATGGCAGTGGTCCAG [A/G] GGTGGATGATCCGAGATTGTGATGGCAGTTGTCAAAGTTGGGTGGTTAGTGGTCTGGTA
168 CaSNP2091 TAACAAGAATATAAAGGAGAACTAAAATCTTTGTTTTGGGATCGAGAATCAAAAAACA [C/G] GATAGTGTGGCAACTACTTGTGTTGTGGCAGTGCCAGCAAAATTTGAGGATGTTCAACTT
169 CaSNP2092 GATGAATCAATATTCGTAAGTCTCTTCAATTTAGAAATCCTAATTTCTCAAATTTAAT [A/G] TATATAATACGTAGTTGGTTTGTCTTCGTTTTTGCAAATTTGATAAACCCATATTAGTACA
170 CaSNP2093 TCTCTTCTCTCAATCCTCTAATTCGCATATGTTGATCGGTCTCAAGACAACGTTGTATT [A/C] CATGTGATGCTCGTTTCTCTGTCTCAGCCCTAGGCAATCTCCACGCGTTAGTTTCTCAT
171 CaSNP2094 GCCACTTAAAAATCAATGAAGAAAAAAAATGATGTAGAAAGAGCGAGATAGATAACAAA [A/G] AGAAATGATAGAAATACATAAGAGGGAGATAGAAAATAGAGAGATAAATGTGAGGGAAAG
172 CaSNP2095 TTTTCCACCCTTACGCATAACCTACAAGTTAATAAATGTTGCCCTATTATCTGCATTTG [T/C] CGAACAATGGCATAAGGAGACTAGCTTCTTTCATCTTCTTATTGGTGATATGACAATGAC
173 CaSNP2096 TAACAAATAAGCAAGCAGCCATGTAGCCATGTGATTCTATGGTTTTATTCCCATCCAC [A/C] AACATGTGACCATCGTCCCTGTACGTATTCGTTAACCACATAAACCTTTTTTCCAAGTCC
174 CaSNP2097 TTGGCTTGTGCTCCTAAGTTCTATACACGTGCAATGTCTTCTAATGTAGTTAATGAGTT [A/G] GTTGACTTTACTTTTAGAGTTCTATCTTATTAGCAATGAGAATTACTCCTATGTTAGCT
175 CaSNP2098 GTTTGATGACTTTTAGAAAGATTCTAAGGAATAAAGAAAGTCAAAGCAAAATATGCGTCTC [A/C] TAACAATAGGAATCAACAAAATATGTTTGTGTTGAGAGTTCAGCAGAGGAGAGTAGAGGG
176 CaSNP2099 TATCTTGGTATGCTTAGTTCTCATAAAGATTGAATTTGATGCAAAACAACCTTGACTATG [T/C] CGAATGAGTGTCAACTCTGTACCATTTTCAAATCTAAGCTCTTGAATAACACTTAAAAA

177 CaSNP2100 AAAGTGAAGCTGTCACTATGTATTAGACTTCAAACAATTTTATAGTGATCATAAGAAA [A/T] ACTTCCTGAGTGTATGACAAATTCAAATATTCACCACACTAACTTCAATTAAGTTATCA
178 CaSNP2101 ATGCCAAAGAGAGAGCAAAACAAGAACCAACTAATAAGGCTGATGGAAGTCTTACACTG [C/G] CCAGGAAGAGTGTACAGCAAGAAACAAACAGGACAGTAGAGTTGGGCAAAATGAGGTTTT
179 CaSNP2102 TTGCAGGAAATAATGCCTCTAAGACGCATTTCCGGTGCTAGTGATGCCACTAATGGGATC [A/C] ATGAAACAGGGATGGTGCAATGGCTCAAGCTATGGTACAGATGGCTGTTGCTATCGCCG
180 CaSNP2103 ATGGATATGATTGTTACGTCACGAAGGAAAGCTTGAAACAATGGGATTATTGAACTCAGA [T/G] TAACTAAATATGTGATTTAGATACTACATTTTTACCAAAAAATTTAAATATTAAGTCAT
181 CaSNP2104 TTGAGGTGGTCCGACCAAATAAACACCATGTCCACCTAAACCTAGATTTCAGTCACCCTA [T/G] GTATAATTATGAAAAAATGATGCTATATGATATGAAGATATTTTACATGAGACTATATA
182 CaSNP2105 ATATTCCTCACTCAATTTTCGTTAAGAAGAGAAGAGACTTGGACTCCAAAAGTCAAATGTC [T/C] AATTTGAGGGATAATCATCCCAATCTTTTAGATGGGCCGTTAAGAAGATTGCAAGAGAT
183 CaSNP2106 CTTAAAAATGGGGACTTAGGGTGCCTATATGGAACATTTTCTAAGGGTATAATGTTTTT [A/G] GGTGGCACGTAGCCTAGAGGAGATGGGATTTGTGATTGGTTTAGGTTTTGGGGTTGATA
184 CaSNP2107 TTTAGTTTGATGCATATTGGTTCACATATATATTGTTACTACCTATGAAGCACAAATACT [A/G] ACATGGACACCAGATACGACATTGACACGTCACATTGGTAATCATATGAGAAAAATGATT
185 CaSNP2108 TTAACCTGGAGAGGTACTATAAAAAATCTACTTAAGAGACAAGTGAAGCCAAACTTCTTA [T/C] GAAATCGAGATGCTATACTTTTGGTTGAATGTTGAAACATTATAATATAGAGGTGCTTGA
186 CaSNP2109 ACGCGGGGAATAACATTATTGGAGCATCACTTCAGCATAGGTGTATGCCGCGAGTACCCA [C/G] GGTATGAGCAATGTCTCAATGGTCTCATATTTCTGATGTATTTACTAGTTGTATACTTTG
187 CaSNP2110 GCAAACCTCTGTATCATTCGCTCTCGCACAATATTCCTTCTACAGACGTATTCGGAGCAGAT [A/T] TGGTCAATCGCAGGGACAAAAAGGCATAGCTATAGAATGAGAAATCACTTGCAGATCT
188 CaSNP2111 GATTACTACTAATAGCAAGATTAAAAATAGATAACCACCCTAATAAACTGACAAATGTCAA [A/G] CTTGCCAGAAAATTAACCTTGTGTTTTATTCTAATGTAAGCCTCCTAATATGCACCTAATTTCT
189 CaSNP2112 TAACCTTTGTTTTATTTTCATCAAACATGTTGTAGTTATATTAGGGCTTAGTTGAGGATGG [A/T] GCATACCTACAAGATCAGCTCGTGCCTTACAATTATCTTTGGATTTTCCCTCTTTTGT
190 CaSNP2113 GTGAAAGCTTCACTAAATAGAAAGGCCAATAGACCATTTTCATCATAAGAGTATCCATATA [A/G] GCCACCAAAAAGAATACCTCATATATTTTACATTCATTCACTCAACAATAATTTCTAC
191 CaSNP2114 TCGGTTGGCAAAATCGCACGGCCCTCCAACACAACCTGTGACAGCAGGAACAACCTGCGGATA [A/C] AAGATCTTCACTCTTCTACTCCAAGGAACCCCTCAATTTTGTATACTTTCCCGTATTTGT
192 CaSNP2115 TCGCCTCTTAGGTGAACCTGGAGTTGCCTTTTTTACACTATCCTTATTTACACAAATTT [C/G] GGAGTACTACTCTGCAACTTATCAGTAGATGATTTCCAGTATTTGTGCCTTGTGATA
193 CaSNP2116 CCAGTGCATCTCTTGATCGCACCATAAAGGTTTAGACGTGTTCTTTTTGTGACGTGTTCC [T/C] GGCATTTTCTTTATTTATTTCTTACCTATAACAATAGTATTATGCATAAACACTGTTA
194 CaSNP2117 AGTAATGCACAAATTGCAGGAACAAGACCTAAGCCCAACCTTGTGATTGAAGGAGGAAAC [A/T] GAACTAGCTTGAGCTGTGGAGAGACATCTGCATTCATCATTTAAATTGTATTGTATGAGA
195 CaSNP2118 CTTCAAAAATGAAATAGCGGTTGGCTCAAAAACCTGCCACTGCAATCCATCATGGCACC [A/G] CCATCGCCACTTTTTAACATTACTTGTGTGCGTTGCACAGTTGCAGACTAACACAAGTAT
196 CaSNP2119 ATGTGTTGTGCATATGTTTCATATTAACGTTAGCACAAGTAAAGATAAAGTATTGGTAC [T/C] GTGAACACACATGTTTTCTTTTACTCATGAGTCACGATTAATGTTCAAACATGGAAAATG
197 CaSNP2120 AACCACACCTCATTCTTAAGCTTAAACCAACAACAATTTGACCAGGGCTTAAAGGCTCTT [T/C] GCTCTAATTTTATAAGTGGAAAACCTCTATAAGCTCTTAAGTCCCTTGTTCGTCACACT
198 CaSNP2121 TAATACACCACATAATTCATCATGCAACCTAAGCCTAAATTTCTTAAAACTAATTTGTT [T/G] TCTGTTTGCAGCACTCTGCATCAGAAAGATAATGCTGACAATTGCTTTAGGCAAGACCAG
199 CaSNP2122 AATGACCCAATCCCTCTACTCCACCCTAATGAACATGAAATATATCTTCACTGTCACAC [T/C] GAGTCTGTTAGGGTTAGGTCACATGCCAAAAGCTAAAATATAAATACACAAGCCACTT
200 CaSNP2124 AGTCATTTTGAACATAGTGAACCTCACGAGTTTGTGAAGAACTTGACGTAACCCATTTT [C/G] GGTGAACCAATATAAATTTACGCATGTCCTCTTTATATTTTGTGTTTTCTGTTTCATAC
201 CaSNP2125 AGATGATCGACCATCTGACAAGACAATTTTGAAGGATATTTCTCTCCCATCAACTGATAG [A/G] AATTTCTCGTAAAAAATTTACATCCCTCCCATATATATATGCCAAAAGAGATGATGTTATC
202 CaSNP2126 CCGAGCCTCACCTGTGCTACAAGAAATGTCTTCATGCACTTATCGGAAGTTTGTGCTAC [T/C] GAGTCTGAGAATTAATCAACCAATGAAGGAACTGAATAGCATATAAACAACCTGAAG
203 CaSNP2127 TTGCAGAAGTTGTGAGCGAAAAGCGAATAGAAAAGGGGAAAATAGGAAATAGCGAGGGTT [C/G] GGGTATACCTTGGCGGTGATAATGTTACGAGCGCGAAGATATTAGCGATGGATTGGGC
204 CaSNP2129 CTTCTCCTATGTAGAGTTTCTTATCCATGTTTCATAGGCAATCCAGAATAAAATGGCAGT [A/G] TAATGAGTATATATGCCAGCTTCATTTTGAAGTTTTTGTAGACCTAAATGATAGAGCAAA
205 CaSNP2130 AAAGTCATCCATGGAGAATGTGGGAGGATCATCACGAGAAATAAACTGATAACTGGTTGA [T/C] ATGGGAAGAGCATAATTGGAAGTAGCTTCAGCCTTAAATTTTCTTCACTTCTTACAAA
206 CaSNP2131 ACACATTAACACCTATGGTTTTACTTTTAGGTGACGGTTTGTCCACCAACGAAATTTTCAA [A/T] GACACTTGCACAAGTTTGCACAACTCCACATTAACAGAGTTGTGATCTCTTCCATTTAAT

207 CaSNP2132 ATTTATGTTAAATAACCAAATGCATATTTACCTTACCATGTCACAAACAGAAGATTGCAG [T/C] GGCACATATACCATAGAATATTACACATCAACAAAAACATGACTAACAGAAAAAGGGTAG
208 CaSNP2133 AAATATAAACATGTACAAGTGCAATAGAAAAGAAAGAGATATTAAGAGGGTGAGAGAATA [A/T] TAAGCTCACTTTTTTGACAGTTAAACAAGTAATATTTTATGTTTCAGCTATATACCTGTGA
209 CaSNP2134 TTAATGAGTTGTCACACATTGTTATATTCATTAAACATCAAGTGAATGTAATTAACCACA [T/G] ATAAATAACGTTAACCATCTAAATTGTTGTCAAATTTTCTTATCATTTCTCTTGGGAAGA
210 CaSNP2135 AGTTGTTAGACACAAAAGAAAGATCTGCTATACAATATACAGAAAAATAAGGCTGGAC [A/C] ATAAGGAAAATGTAGCTTTAGTCACCAACATAATTACTTATAGAAGTTAATTTCTACAC
211 CaSNP2136 AGACCATATAATTGAGTATGTAATCATTAAACAACCTTAACTCTCTTACTTATTATAGTTT [T/C] TATTTCTCCTTGTATGTTGCTTTCAGTGTTCCTCGCCACAAGAACATGACTTGGTTTCGCT
212 CaSNP2137 AGATTAAGCAATTATTTGAATTGACAGTGAATTTGGTAGAATCACGGATTTCGCAATGTAT [A/T] ACACGGGGATTCTGGCAAAAGCTAAACTTTGGAGCTTCAGCAAAATTGCTCTATCCACCT
213 CaSNP2138 AATTGTGTCGAAAACATAGTGGTAGAGTCAGATCGAAATAGAGGGAGCAAATCGGTATCA [A/G] TAGCAAAACGGGTCATACAAAGCTCTTTACAGTAGATCACTTTACAGTAGATCCTAAAAA
214 CaSNP2139 CTACCCATATAAATGTCAATTTTTATCGAAATTTTACACACACCAAATGCATGAACCGTC [T/G] GTCGATTTAGTTATTTAGATGGTGCATAGTAGTAGAACCATCAAATCTAGTGAGAGAAA
215 CaSNP2140 TTAATCACCATTAGTTATCTAAGTATATATATATCCCTTTTTTCCAACCTAAGTCCATACA [A/G] TATATAAAAATAAAGTATTTCTTAAACTATATGAAATATGTCAAATTAGTCTCTACACC
216 CaSNP2141 CGGGAGAGAAATGGGACATGGAGTTGGGATAGGATTGAAGTATTTAAAGAGCTGTAGTTC [C/G] TTGCTTGAAAAGTTGATGAAACACAAGCATTGTTGGGTGTTAATACTCCAGTTGATGTT
217 CaSNP2142 TCTGGGACAATTTTCTATGTTGTAGTACTATTTATTAATGGCATGTTGTATGCATGTATT [A/G] AGAAAGTTGCAAAATGATGATTTCTTCTGTAATGGTGAATGGGTTGAAGGCTTCTTAG
218 CaSNP2143 AATGGATAGGAGAAGGAGTCTATTGCAACAACGTTCAATAGAAACGATGGTAAATACTC [A/G] GAAATTTACTCAATATAGATAATAGATGAGAGTGTCAACTTCATTGTTTCATTGCATACA
219 CaSNP2144 AAAGCACTCTCTATATGTTCTGTAAGTTGATTGTACTTTATATTTTGATTATATTTGGG [A/T] ATCAGTAGAGTTAGCATTTATTTTTATCATTCTAGTTTTGAGTACATAACTGTTGATTC
220 CaSNP2145 TCATATCTGAGCTAAGAGCTTGCGAACGAACCTGGTTATCTGACAACCTCACACTGAAATA [A/G] TTCCTTCGCTAGCATAGGAGACAGAGAGATACCATGTCCATGATTGTATTCACTACCAGA
221 CaSNP2146 TCTTGATGCACTGCTTGGTCTACTCAAACCTCAAGTTGTACATTATCCTCATGTTGTTCA [A/G] CCACATAATGTTCCCTCTGATGCTCAATCTCAAGTTGTGTCTCTGTTGCATCTCTTCGT
222 CaSNP2147 GCCTCAACTACTTACCCGATTAGTTGCAGAATTGGGCCACTTATTCCCTCAGGTATAAAC [A/C] CTGTTAATTGGGGGGTCTGCTAACAAGTCCCACTAATGGGATACATGATTGAGTTGA
223 CaSNP2148 ACTTGAATAAAAATTGCTGATAACTATTTTGCTTAAAGGAAATAAGAAACAACACTTGCAGT [A/G] CAAATACCTAAACAACCATGGTTTTATGATGTCTTTGCAACCGCGTGTCCGACGCATCATT
224 CaSNP2149 GCAGACCACCAGATCAAGCTCATTGAGTTGACTTTTCCAGAATCTTTATGCTTGAAG [A/G] CCCTACCTATATGATGACAAAATAATCCACTTCACAAATTCCTCAATATTTATTTCTC
225 CaSNP2150 CCACGGTCTTTAACTTCAAATTCCTTAGCAAGTGCTTTAATTTCTAATTCATTTCTGAT [A/C] ATCGTTAGTGATGATGATGCATCTACATAAACAATGAAGATAGTCATCTCTCTCTTT
226 CaSNP2151 GTGAAAATTCATCCATTAGTCCCTAACATCTTAACACCAGGAATAACACGACGAAGTTT [T/C] GTATATTTTAAGAACATGTATACTTATATGGACAAAGTAAAAGAGAAGTAATACCAGAGT
227 CaSNP2152 GGCCTATGCCATGATGAGAAAATAACTCTTATAATAAGCTGGTTGCCCGTAAACTTTC [T/C] GATAGACAAAAGAGTGAAGTTTCAGTTAAAATTGACAATGAGATAGAGACCCATCACTG
228 CaSNP2153 TGCAAAATGCCCCCATTTTTTACAATTGTAACATTGGATCCCTTTGTTGTTGAATTTCTT [T/C] TTGCCATTGCAATCTTGTGTTATCATTCTGTTTTGGTTTCTTGAATTTCCATCCCT
229 CaSNP2154 TCCCCATTAGTAAAGGGCGCTTTTCTAATTATGGATGTACTTTGTTGCACATCCACCTA [T/C] GGATTTGGTCTGCATGTGGATTTGTTTGATTCAATTAATTTTGGGACATTATAAAAC
230 CaSNP2155 ATTTTTCATTTAAATTTTGATACTCAGTCATCCACAATGAGTGCCTGCTGAGCTGAAAA [T/C] CCTAATAGGCATCACCAGAAGCTTTAATCTCCCGTCTGTATTCTTAGAATAATCTAACCT
231 CaSNP2157 GTACCCATAATATTATAAATCATGTCCATTTTCTTCTCTTTCAATTCCTATCGAC [T/C] AGACCAGTTTCTCGATTTCCACTGATTAAAGGTAAGATGATTGGTGTGTGGTAAGAGTTG
232 CaSNP2158 TGGATTCCAGGGCTCTCTATACGCTTGCATGCAAGATTCGCTTTCGTTTTTGCAATGC [A/G] GGGCAATCGATCCACAAAACCAGAACCAACATTTGTCAAGGTATGATTTTTAAGTAAT
233 CaSNP2159 GGAATCACTCGCTTTGCATGAGATGGTGGCAGCAAGTGGTGGGATCCAGGGGCACGCAT [T/C] GAGAAGATGTCAATGTTATGAAGAAGATAAAGGATCATGTGCAAAATAGAAAACCTAGTC
234 CaSNP2160 TATTGTGATTATGAAGGAGATTTTTGATATGAATCAAAATATAATCTAGAAAACGGTAC [A/G] TTATTTTTATTATATTTTGATTTTCATATATAAACTATATATATATATATATATATAT
235 CaSNP2161 ACTTCTTCATGCTTATCGGAGTTTCATATGGTATTTTCAATTGATGTTGAACTATAATTA [C/G] TTTTCATTGTTAGATATGGTAATAGCCTATTACAGTGCTCTTGAAGAGCGCTGAAAA
236 CaSNP2162 TACTTATGATAGGAATTTTATGGATTTGTCGTCGATTTGAATTGCTAGTCAAGATCAGA [T/C] GGCCACAATTTGATTTAATATCTTGGTCTGATTTACAATTTGAAACAATGATTTGATT

237 CaSNP2163 TAATACCAAATCATTTTTAAGCAAATCATTTTAGGACAAGTTAGAGAGAGAGAGATTATAT [T/G] CTCCTAACTAGTTAAGCTTAGAGCCACAATGCATGAACAACATATGCTAACCTAATTATT
238 CaSNP2164 ATTATATAAAAACAAATTCATTTGCTACCATCTGATTTCTTCTGCGAGTCTGGAACATCTGT [A/C] GCAGCAAGTTCAGTATTGTTGGGTCTGATACTTCTTGGAGAGCGGCGTTTGTTCCTCCC
239 CaSNP2165 TGTGTGTGTGTGCAGAGACTCATTAATGAATTATTGACTTTGATGTGGTGTAGAGGAA [T/C] AACTCATCCAAGTGGAAACAAGCATAATGGAAGCAATGGCGCATGACTTATCATGGGAT
240 CaSNP2166 AGAATGGATCTGAATTTTACAGATTAATTGCACAACATGTGTTTTAATTAGTGCAGGTA [C/G] TTTACACACTTTGTAGATTACAAAATTTATACAGACTTTGTATTTTCTATAACTACTAAA
241 CaSNP2167 ATGACATGCATCATATAGATTGGTAGTGTAGATCACATATAGATTGGTACGTGAATTAAT [A/C] TAACCAAATGACATACATCATGTAGATTAGTACGTGTAGATCACATATACCTCTCTATGA
242 CaSNP2168 CCGAAGTATAGTGGTATGGTGGAGGATTGTTGTTGTGATTACGAAATTTGGGATCGGCTT [A/C] ACAAGGAAGTGTGTATCCATCTCTACAAGAACTGTGAAAACCTCATTTCTTCGGTATT
243 CaSNP2169 GAATGAGATTGAAGTGTCTGGTGGTGTAACTGCACCGGTTGGTTAATCCGTTACGATA [A/G] CCCTAACATTAGAGAGAGAGTGGATTGTGATGATGAAATGGAATGAATGGATGAAAGAAA
244 CaSNP2170 TTGAGAATACAAACCAAAGTAACTAAGAGTCAATAAACCAAGAGGAAAGGTTATGCCAGG [A/G] ACTATCAATGAGGTAGAATCCCCTTACAATGAACCAATTCAAATAGCATGAGAATTTCC
245 CaSNP2171 CATATTCTCCACTTTCTATGATGCAGTCAACCTCCAAGCCCAACAAGAATATCCTCTGTA [T/C] ATGCAATGCAAAGATAAGTTTCTCATACAAAGTACAGCAGTGGATTCAAACACTGATGTT
246 CaSNP2172 TATCATAGCAATGAATTACTCTTCTGTCTATGTTAGCCTGATTAGAAGGGTTCAGGCTTGTCT [A/T] CTACACTTGTGTGCCATATGACCCCTCTTTCCCAATAAAAACAGAGAAAAGGTGGGCGA
247 CaSNP2173 CAGTCTAAATACAAATCAAAGCCCAATAAACACAAACTATATTGAGACTGCATAGAAAA [T/C] TATATCCACACCCCCAATTGTACCTCTCACCTCTATTTTTTCATTAAGACTATTTTGTCT
248 CaSNP2174 GTTGGTGCCAGCAAAAGTCTCCGGAGATGCTAATGCTGTGACCCCACTGTTAATCCAAA [T/G] GAAGAAACAGAAAAGATACATGTAATTAGAATGATCATGTTGACAGCATATTGAAGTAAA
249 CaSNP2176 ATTATAGCTGTAAC TAGTGTGATGTGAAACATAATACGTTGATGGTGTTTTTGGTCTATA [T/G] GGAGTGGTAGTGTGTGAGAAGCTGCTGGCGGTAACGATGAGAATGATCTTTTTTCAGCAAAG
250 CaSNP2177 CACTTACCAATTACGGCACAATCACAACAACAACCTGAGTATGTATATACAATCATCACA [A/G] TATATAAAACATGACTCGCGTGCCAAACACCCCTATTGCAATGCGTATATGCCAAAATGCA
251 CaSNP2178 AGAGAGGGAAATTGAGAGAAACCTTCCACCTTATTTGAGAGAGTATTTTGTAGAGAATG [A/G] TTAGATAATCTTTTTGATTAATATTTTATTTTTTAGAGTATTATAACATGGAAAGGATTTG
252 CaSNP2179 TACACAATCAGCATTAACTGTAGCACTGCGAACATTTTGCATCATCATTGAGTCTAACTT [A/G] TGCCTTTGTCTCTGTAGAACACCAGGAGTATCATAAAGTATCATCTGCAAGAGATTACACA
253 CaSNP2180 AATTTCAATTCAATATAACCTACAATCATTTCAATTTGCAAAAATGCAAAGCAAGAAACAC [A/T] AGAGTAGTTAGTTACAAAGCATACCTACGATACTGAAGAGGCATGTTACCAGCTTTCCAT
254 CaSNP2181 ACGAAGATAAGAGGAATTCACAAGAGAGAGGTGGCTAGATTATGACATAACCTTGTTTG [A/T] AGCATTGGAAGTTGAAATAGTTTTATTTTATATTAGAAATTGACAATAGTAACTACAAT
255 CaSNP2182 TACGGGACCATATATATATGACATACTTATATATCAAATAAAGTTATGGTACATATGAG [C/G] ACATGCACACACATTTCTCGATTGACTAGAAGGAAACGCCCCATTTCTACTTTCCATCA
256 CaSNP2183 AAGTTTTCAAGACCAATCCCAATCTAAAGAAAAATAAGGAATAAATTGACAACCATGTGT [T/G] TGTGTGTGTGATATCAATAAATTTCCCAAATTGAGAAACATATAGAGCTGTCATAAATAAA
257 CaSNP2184 TTACAGTATGCGGCGACATATTGGTCAAAGTGTGAAATGCAACACTAATTGCAGAGTACA [A/G] TTGTACAAATAGCCTTATAATACCATTGCATTCAAGAGATTAGACAGCAATTTCAATTTT
258 CaSNP2185 AGCATGTGGTGAAGTTGAATCCAACACACTAATAATGATGTTATTAATTTTGCAGGCTG [A/C] GAGAGCTACACACTCAAGGACATGTTGAATCAGTTGTCAAGTTGAAGGGTCTTGACA
259 CaSNP2186 CATTACTGATAGTTTGAAGAAAACAAATGAACTTTTGAATCAAGAAGTGTGAAGTTGCG [T/C] TCTCAGGTATATTATGCTTCCCTCGTTTCCCTCTTAAAACCATGTAAATCATATATAGCT
260 CaSNP2187 AAATGGAAAAGATTACCAAATCAACAATTTGAGTACATCTCTGCATCAAAAACCTATG [T/C] GATTAGTAAACAAGTTCATATTATGAGACCAACCTTGGCAAATTTATTAAGTCACGGAG
261 CaSNP2188 AAATTCCTCTATGGTACAGTGTATAGCGCAAGCTGCACAAGTAAAGCCGCTATTTGAAA [A/C] CATTTTGTACTAAATATCGTTTTCACAGAACAATAGTGTGTTGTTGATGATAACGTTACGCTG
262 CaSNP2189 AATGTATATGTGTTAAGTGAATTTATGTGTCTGTTAGCTTATCATGTTAAGTTAAATG [A/C] TTTTGTGACATGTTGTGCTTAATTGGAGAGTGAATGCTTCTATATATTTATAGACTAAGT
263 CaSNP2190 AGAAGTTGCGACATACTTATCTGTTTTTGGATATGCAGGACTTTGAGGCAGTGTGTAA [T/C] CCAATGTTGTGTCTGTAGGATATATACACAAAATCGATGGGTCTATTTTTTATTCATTC
264 CaSNP2191 ACCGTGCTTGTGATAGGGGATACACTTTATGTTGCTAATGTTGGCGATTCAAGGGCCGTG [C/G] TAGCTGTTAAGGATGGTAATAGAATTTGTTGCTGAGGATTTGCTCTGATCAGACACCAT
265 CaSNP2192 GAGACATTTAGTTTTATGAACTCTTTTGACAATAGATTCTCCAACGATTTTTCAACTCT [A/G] AAAATTTGGATGGAGACATGTATATGGGGTAATAAAAATAGACCTTGTACCAAGAGTCA
266 CaSNP2193 ATATGGAAGAGGATGTCCTTGAGCCTCCATATATGGTGCAGGCTGAGGAGTTGTATGTTG [A/C] ACATGTTGATGATGCTGATGAGCAGAATCAAGATCCAGATTCCTCGGAGGATCGGTGGT

267 CaSNP2194 CGTCGAGTGGAGTTGGGGTTTTCTAGAGTTGACATTGAATACAGTGTATCAGGTGGAAC [T/G] GTCAGATAGTTGGTCTTGTGAGCCACTAGAGAATAAACCTGAGTAATATAGGGTAATG
268 CaSNP2195 AAGTTGTATTTCATATAAGGAATGGAGTTACAATTTTTACTTCTGAATAATCAATTTGGTC [T/C] CTTGATAAAGAATAACCTGATATACTCAAGGATGCGGTCAACACACTTAGGACTACATTC
269 CaSNP2196 CAAGTCCATTATAAGCAAGTGGTGCCTACATCCACATATCATCAGAGCTCAAAGCTACA [T/C] AAAAAACAACATGAAAAATGGTTATGATAAGTAATAGTTTTTAAACAAATAAATATATTA
270 CaSNP2197 GTGGTGGGTAGTCACCCTAAAAGCCAGTTTTGTGGGGTTGTGTTAGTCTCAAACCAAATT [T/C] TAAGATGGTATCTGTTAGAATAATAGAAAAATCTTATAATATCTATTATATTATATTAG
271 CaSNP2198 AGCAAATACGTAATTAAGCCTTTTTTATGGAGCTTTTGAAAAATATCATCTTTACTAT [A/G] TAACAGGTCCGATGTTGATACTAGGATATTATAAACTTTACTTGAGCTTTAAAAGAGCT
272 CaSNP2199 TAGGTTTTGCTAACCTCGATCTACATGTGCTTTAGACTTGAATTGATTTGTATTCTCCTC [A/G] GCCAATGAAAGCACCTTCTTACCCTCTCCATTTTTTCTGGTCTGGAAATTTTCCAAATTG
273 CaSNP2200 ACTTTACCAGACTTCATGAAGCTTAAACCTCATACTTTTTCTAGGTCTAGCGCAACTGGA [T/G] ACCACAACAATTCATTGATAGTCTAGAGTGGCTTTGGAGAGCATTGAGTTGTTCTGATG
274 CaSNP2201 GTGGTTAAATTCAACTACTTCTATTTTTCTCAAATTATTATCGGTATCTGAGTAACTTAGA [T/C] CAGTCATTTTACTTATTTAACTATCAACAATATCACATCTGATACTCATAACAAAAATGT
275 CaSNP2202 CATTTCAATTATGAAATGTTTTCAATTTTTTAATCAAAGATTTTTTTAAACCTCCGG [A/G] TCATAAGGAAAAAGTCAATAGTAATATGGAGTTCAGCCAGGATTGGAACCTTTGAGTTTT
276 CaSNP2203 CACCATAATTTAACATGAACATTTTTATCTGAATGTAACAAGAACCACCAACCTTCTCT [C/G] ACTAAATTTCTATTATCTCCACTTGATTCTATTGCTCTTAATTTTTCTCGCTTTCTTCAA
277 CaSNP2204 CCTGTGAAAGACTCAAGTTATTACCTCTATTTACATTTTATCAATTTGATTTGACCCGT [A/G] TGCAGACGGATCACTAGTAGATCTTTTATTTTATATATTTATTTATTTTGTATA
278 CaSNP2205 CCTCTGGTTCTAGTTTTGAATTAGGAACCTTAGGATTAATTTATGATTTAGTATATT [T/G] CTAAGTTATTTAAAATTTGTGTGGATGAAGGATGATTGCATACATGACAAAAATAAGAC
279 CaSNP2207 TACCAGTTTCTCCGTTGTACGACGTGTTACTCAGAAGTGGTTCAAGAGGGAAATTCGCAG [A/G] ATTGTGAGATGCTTCAGCACCAACCCGTAATAATATGATTCAAAGGGATTGGACCTCT
280 CaSNP2208 ATTTGCCATAAGAATGAAGTCAAATACAACACAATAAATTTAGTGATTTGAACCAATCTGA [T/C] TTCTAATTTGTTACAAAAATGTAATAAATATATGTGTAGCCATGCTATGCTGGCTTTGC
281 CaSNP2209 TGTTGTTGTTATAATTATAATTATTTAATTTGATTAGATTAACCGAGTATTTGAGAC [C/G] CCAATATATTTCTAGCTTGCAATTTAGGTGAACCTCTGATGGCAATGCTTGATAATTTG
282 CaSNP2210 AGGTGTCAGTGTCTGAGTCATGTCCGACATGACTCAGACACTAGGACACACATTTGACTA [A/G] AGGTGTCATGTTAGAGAGTCCAGATCCCATAGAATTGAGTAACACTGAAGAACATAGTA
283 CaSNP2211 CATTGCTTCTTTCCATAAGGGTCTTGTGTGAGCTTCTTTGGCATTATAGTTTCCATTGT [A/G] TCTTTGTAGGTCTCAATGAGTCCAAATGTAAGGTAGCTTTGGTTTGTAAATGCTTGACTTG
284 CaSNP2212 TATTCTGGGCTTAAGAAAAGTCCATAGGTAACACATCAGATGAATCTTAGGAAGCCTG [T/G] TTATCAATGATATTTAAATCAATAAGTTGACAAACATAACAAAAGTGTAAACAGAAAGA
285 CaSNP2213 TACAGTGCAATTTAAAACCTCTCAGGTATATTAATTATAAAACACAATGAATATAATAATT [A/G] GCATGTACGCTCTATAATGTCCCATAAAAAAGTAAATATATCGTTATTAACCTCACATC
286 CaSNP2214 TATATTAGTTTCTCAATCTTACTCTTAATGTCACCTAAGTTTCCCATCTCCAACCTTTAC [T/C] ATTTGTTAATATTGTATCCAATGGTAATATTGGTTCTGGTAATGACTTATCTGCTAGTTC
287 CaSNP2215 TATTTATTTTGGAGACAATTTCCCTAATGTTATTCAACCATACATTGATGACATATTTAAT [A/G] TCATAACAGATGGAAATTTGGGCTATCACACTATTGCATCATTGCTTGAACACAATGAAG
288 CaSNP2216 GAAAACCTCCAGTGCAGGAACATTATACCTAGAGTTCACATTATTAACAAGTGAAGAAG [T/C] ATTACTATCAGCATCAGCATTACATCCTTACCCTTCTTCTGTTCAACAGATACATTCTC
289 CaSNP2217 TAACTTTGTGATCAAATTTCTGTGATCTGTTTTCTTTGAAATCAGTGCAGCTGTTCTAG [T/C] ACTTTGTATTTGCAACAAGCTAATGAAACATGTTAATTTACTTTATTAATACAGGGCTAT
290 CaSNP2218 AGCATTATTTACTACTAATCTCGTCCATGCGAGTCTGCAATTTTTCTGTCTTCATGGC [T/C] TGAGACAACTACTTTGAGCTACTATATCCGCTCTGTCAACATTTTCAATGAAAACAACT
291 CaSNP2220 GTTTTATTTGGATAATCGGTTAATCAACTACATATGTGTTAAGAGTCTCACATGAGATA [A/T] ATAAGGTCTGATAAAAGGTTTATAAGTAGTAGGTTAGTTAGTGGGAGTTATGTATGGCCC
292 CaSNP2221 CTATACTAGCACTTCTATGTAGAAAGTTATGCATGCTTCTTATCACATGTACCAACTGAC [T/G] TTTTACACCTCATTATCACACTTATTCACTTTTTTCTTACCAACAGACTTTTCGACAGCTC
293 CaSNP2222 CCACGAAATAAGACATCCACCGCCACTTTCTTTCCCGTTTTCAATTTAGAACATGCAACA [A/G] TTAGCATTACAGTACAACACAAGATCCAGCAAATCTAAACTTTAGGCAGATTATAAAAAAC
294 CaSNP2223 AACAAAAATAATTGCAATCCAAATGACAGACTTCATAACCATGTATAACTATAGTCCAG [T/C] AAACCTGCGTATATGTTAAGAAATGGTGTGATGAGTGTATTTCATGTCGCTAATGAAAAA
295 CaSNP2224 TGCCAAGTTGAAATGGTAGGTGAAAGACCTTACATTGTCTGCTGAAAGATAAAGACAAA [C/G] TGAAGGAGAAAGAAAGGAGAAGGATAAATCATTGGAGAAAGACAAAATACAGAATAGTG
296 CaSNP2225 GACAAGTTCTCATACCCTCAATACTTAAACAAGTTCCCAACTTGGTATCATTCTCTGTG [C/G] CAATGGTTTAACTCATCTTCAATTATAAGTGGACTTTTTACATAATTGTTTAGACCAAT

297 CaSNP2226 CACTATCAAACATATTTATTTTACCATGATTCATCTTCATTGAGTATCCCATGTAGTTAC [T/C] TTCCTATTACCTGCAAATTTGGTCTCTGTTTTTACCTTCTCATTAAATGCTTACAAACCAA
298 CaSNP2227 TCGATACAGGCATGTATATGATAAAAAAGAAACAATAATCCAACAATACTAACACAACA [T/C] GGAAAGTACCATAGCTCATTATATGCATTGAACAGTAATTAATTATGAAAAAGAGGATG
299 CaSNP2228 TTGGATTCTATTAGAGTATATGCCAATTGTCTACATCACTCTGCTTTCTCATTTATATTTT [A/T] TTGTATTAGTATTTCCCTTCAGATAGTCTAGAGTATTCTATTTTCAATTATTGCTTCTGT
300 CaSNP2229 CAATTCCCTCCCTAACCCCTAACCAATCCTCGCTTCTTCTTAATCGCTCACACTACTTTCCT [A/C] ATTGGCGTTTGGTCTTCTCTTCAATTCAAATTCCTCCTAATGGAAAACCCCTCTGTCTGTC
301 CaSNP2230 AGAGTTGTACGAGTTAATATATACATACGTCTACCTGAAGGATGTCGGGGATGAGAGAA [C/G] TTGCACGGTGAAAAATGTCTTGAACAACATTCAATAAAGGTCTAACATCAACATGCTCTT
302 CaSNP2231 ATAATATGTTGATGGATATTGCTAGTGTGTTGGATCCTAGGTGCAAATTTTCATATGGTAC [A/G] TATATGTTTTCCCTTGATGTATCAATCTAAAGAAGTTGTTGATGAGAATATAAAAAAGGT
303 CaSNP2232 TCATCAAAATCATGAGGGCTAGCTAAGCCTGAAGCCACTCTTGATAAGGTATCAACAATT [A/G] CATTAGCCCATTTCTTAGGGAACCTACC GGCAATAAAAAATTTGCACACTCTGAGTTTACA
304 CaSNP2233 TACTCACCGATTATCCATGGACACAGGTTTCATAGCTATTTTCGCTCGTAGAAAAATATTTA [T/C] CTACAGTAAAAACAGTGGGATACATTTACTTAAGGCATATCCATGTATAGTATGACTCAC
305 CaSNP2234 CATGCATTTACAGGAACATTTCTCTGATGCATGCTTTGTCTTTATGTTTAACTAAGCAGAA [T/C] TTCAGACAATATCAGTGGACTTGACATTAGTATCAAACTAAGATTAACGAGATATCTTAA
306 CaSNP2235 GTATGATAAGTTATATAAAAAATTTATAATAGTATAGTATGCATGTTGATTGGGGGATCAG [A/G] CTAACCCCTTACACTAGCCCTCGGTGTGGCAATAATATCTGAGTTGACAGGAAAAATAA
307 CaSNP2236 AGCAATTTCCAAGGCTCTGAACATGAAATCTCCAGAGAGAGAGAAGCGACACAGACACAA [T/C] TTTTCATCATGTAACAACCCACACTGCTCAGGAATGGGCAGAAACTTTTGTGAGGTACT
308 CaSNP2237 CATGAACCGAGTGTGAGTGCATGAGAAGTGGTAGAAACATGGAGGAAGGTGTCGCACGTT [A/G] CGGTCTTGAATCATGACTTATATATATATATATATAAAAAAGATTAGAAGTATAAGTCAT
309 CaSNP2238 AGTTACATAATCCACCCACCAAACTGAAATAGCTGTGAAATCACACACAATCATACTGAG [A/G] TATAAATGCTGGGAATTCAGGTGTAAGTGGTAGAAATTCCTCTGTTTGTAAATAGGAAT
310 CaSNP2239 AATAAACATAGTTGCTTCGGCGCCAAGAAAGTCCATAGCAGCAAAATTTGTTGGTGAAGCG [T/C] GCCGTTCGAGCATGGAAGTACAAGTATCCAGGATCAAAGTTGATGATTGTGTCAGTCATA
311 CaSNP2240 AATAACACAAATGCATATGCAAACCGAACAGGCGAAAGCTTTCCATCGCACACTCTACTT [A/C] ATGCATATCTCCCTTATTACTCAACTCTTCCACTTACTGACTCCGCTACTATGTCCATA
312 CaSNP2241 AGTTGAGTAGATGGTTAATTTAGATCAAGTTGAAAATTTATGATTAATTTATGCAGTTGAAT [T/G] ACCACATTTTGTGCTGATTTGAATTAACCATTTACTCAACATTAACCACATTTTGTAC
313 CaSNP2242 ATACTAACACGTGTTGAACCACTGATATATATTTTCGATCAAAAGTGTGACTACTACAGA [T/G] AAATCTATAAAATTTGGCCAAAGCAATACCATCACGACATTAGTGAAATCTATAAAATCGG
314 CaSNP2243 TCCATTTATAGAAAAGCTTTTGTAGTCCATTAGGGTTTTTGTACTGTTGTTGTAATTCATGTA [A/G] ATCAACATATGAAATAAATACTCGTATCAAATCTTCAAATATATTGAGTCAACATTAACA
315 CaSNP2244 GCCCATAACTCCTGAAAGTGCAGTAAACTCAGTGACAACCGATGTGGATAGATCAGACAT [A/G] GCAAGTGAGGCAGCTTCTGGATAATTTGTTGCATCTCTTTCATCAATATCCAACATGCAA
316 CaSNP2245 TTCCATAAACAAATCTAACAGATCAACTTATCGTGATGTGCTAGCTAATGAAATGTGTAC [T/C] TATTTATAATCATCAGAAGAATCAATCTCATAATTAATATATTTGACTATATTAATAA
317 CaSNP2246 TATTACATACTACAATATTAGCGAAAGAGAGTAGCTGAACTCATTGAACAGATACACTA [T/C] TACACAAAAATGTTGGACACTGCAATATCAAGAGATGCAAATAAAAAATGAGGTTAGGGTG
318 CaSNP2247 TGCCATAAAGAAATGGCTTCTTTTCCCATGTTGTCACTTTCAGTTCCCATGCAATGTAATGCA [A/G] AATATAAAGAAATTTGGTCTCCTATAAAATGAGAATAGTTATATCCATCACATCTATGAT
319 CaSNP2248 TTCATAATTAGGGCATTTGACACGAAGTATTCTCACAATTTAGGTGATTTTGTACCCGTA [A/C] GGGACTAATATTCACTCGGATGATTAGGTACAGCTTAAGATTTTTTGGCTCTCCACAAG
320 CaSNP2249 TGTCAGCATTGATAGCCATTCTATTGGTTCTGTTATGATTGATGAGAATATGAGTTTGT [A/G] GTGTTGTTCTTTGTTTCTTTGTTGGGTTAGGTGAATGATCTTCTTCTTGTGAGCTGTTGAC
321 CaSNP2250 GTCTTTATTTCGGGTTGTAACATGGCCAAGGTTATGGTGAGATCATCTAAGGAGACTAGG [T/G] CTGAAAAATCAAAGAGGATAAATGAGTAATGATTAAAGAGAGAAAAACAGGATTAAGAAATA
322 CaSNP2251 ACTCAAATCTCACCATTTGAATTATCTTTCTTTGTAATTAGCGTTGCATTTGCTAGACAC [A/G] TTTACATCTAACAGTAGTCACTCAAAAAAGTTCACCATATGAGCAATGATGGCTCACCTG
323 CaSNP2252 CACCCAATGATTAGGGAGTTCTCTGACTTCCATTTTTGATATGTTGGATTAGTCTACTCT [A/G] GTTGGAGAGTGTCTCCAGCCAAGTAGCTTAACTTTCCCTTGCATCAAGAGCTAACTTCA
324 CaSNP2253 AGTGGATTGTTTTGAATATTTTCTCTCTAACACTAGATCACTCTAAGAACCAACAATT [T/C] AGAAATCTAGATATTGATGATCCTCATATACATGATTTGTGTTAGCTGAACTAGATAAGC
325 CaSNP2254 CCTCAACAAAACGGTGTGCTAAGAGAAAGAACCGACACTTGGTGAAACGGCTCGTACC [A/G] TGCTCCTTCAACAATAATGTACCTCCTCGTTTTTGGGGAGATGCAATTTCTCACAGCCTGCT
326 CaSNP2255 CAAGAATGATACTTGTGAGTTATTTATTAGAAAGTCAAGAGTCAATCTCATACTT [A/C] GTGGAAAACATGAGAGTGCAGGTGGAAGAAAACGTTCCTATAATTTGGATGTTTTCTGTT

327 CaSNP2256 TCATT CAGGACTATTGTAACATTGTTTTGCACATTTAGGGACCAAATGACCGTTACT [T/C] GTATCCGGATGCTAGTTTTCTGATACATTTCACTTTTAATGGAATGTATTCTATTCTGATT
328 CaSNP2257 AATAATCTTTTTTCAAAGGAAAATGGTAGGGGAAATAAGCAGAGATTGTAATATTGCAAA [A/G] CATCTAAAATTTGCAGCACTAATTTTTGTTAGGGCCCGGGTTATAGGGATTTGTATTGAG
329 CaSNP2258 CAGCCTAACAAATCAATATGGGCTGCACCTATACTACATTACCTTATTTGTGCAAGCTCCA [T/C] TATGCAATCGTGTGTTGTTCTGTGGGATTTGAACTGAACTGTTTCTGATTGCTTGCTCGCTGG
330 CaSNP2259 AATAGAAGGATATTTGGCTGCCATTTACTACAACAACACTTCCATTTAAAATTGATGGT [A/G] ATACCAACAATCTTTACAATAAATTTTCATTCTTGAGCGTGCAACCATTACTGTAAGGA
331 CaSNP2260 TGTGGGCTCTCCAATTAATTTGGATCATATGTGTGAACTGCTTTAGTTATTTAAAGAAGT [A/G] GTCAATTTTGTACTTCATTCTCATTTATTTACGAGACTTTATGGCAATTTTACGGATA
332 CaSNP2261 ATACTTATTTTTTCGTGCATCTTTTTATACAGGTACATAATGCACCAAGAAGCTTTTTTGG [T/C] GTAGAGGATTTTCATCGATGATGATAACAGCCGACCTTATACATAACAAAAAGGGAAGAAG
333 CaSNP2262 TAAAAACAATTCATAACAAGTGCATGCACATTATGTTTTTAATAGTGCATTTATAAG [A/G] ACATGTTCTAATGTCTAAGAAGCTCTATTAAGAATTGCATCTGTTACGAAAATGCAATGT
334 CaSNP2263 TTCAAAAGACATGCCAAAATTCATAATAATTATAAAAAGGTCGTTTTAATTTCAATCGAACT [C/G] GTGTATAGATGGTATAGTTGGAAAAATAATTAATATTACATAAAAAATAGCATTCCTTTT
335 CaSNP2264 AAGGTATTACATTTACATTGCTATCATCAAATCCATGGATATAGTTCCAATATTAATAA [A/C] TATTGTTGTTTTTAGCAGTTTTCAAGAATGATCTACCTAAGATGATAGGCACCTTGTGAA
336 CaSNP2265 GGGTGTGCAATGCTCGTCCTGCACAGGTTGAACAAACAATCTCGACCTTCTCTATAA [A/G] TAATAAATAAATGAGTGTGTTACTGTGCCATATATAGAATAATATAATTGAAATGTCCA
337 CaSNP2266 CAATTAATGAACACGCATACAAATACTACTGTAGTGAAATCGACATAGTAAACCGAAAGA [A/C] TATAAGATGTCTAGACAACATACCAGGAAAAATGGGATTTTGATGGAGATAACCGTTGG
338 CaSNP2267 GTGTACAAATGATGGGTTAGGTCGGATTTAATGTCTCTTACCCGGTCTCAATATTTGATC [A/G] GACCAATTTTTTAGACTCTAAGTCTTCTTAAACCCGATCAAACCTCGATTAGTTATGGGTC
339 CaSNP2268 CTAATTAACCTTCATTTTTATGAAACAAAGAGTTATCTATGAACTTTTGTATTTTAAAAT [T/C] ACTTGAAAGTATATTTATGGTATCACAACTCCAAAGTGTGGAAATGTCACCTTTATTGTA
340 CaSNP2269 TATATATCTCTTTGCATCAATTTTTATTTGTTGATTCCTGCGCGCATGTTATTGGATTTA [A/T] TTTTATTATGTCATGCTGCTCTGGCAGGACACTTTCCACTGACGTTTCCAGAACTCCTCCAG
341 CaSNP2270 CTTCTCGCTCTCTCCGATTATGACTATGACATATATTTCCATTTATGCATGGCCTCAACTA [T/C] TAATCTTGTCATCGGCCTGTGGAACAAACTCATAAGCAGGGGACAACTCCAGAAACAACAGC
342 CaSNP2271 TCTTCTATATCTCCATGGAGGAAGACATTTTTTACATCAAATTTGGTGCAAGTTCCAATTG [A/T] AATTAGATGCTAGAGATTATATCACCTTAACAATATTCATTTTTGCAATTAGAGCAAATG
343 CaSNP2272 TCCTAGGTGATCACAGAGAGAAACAGTCAGACAATCCCTTGAAATGACCAATTAAGTA [C/G] CTTTTACAATTAAGAAAGTTGCAATTTGAAAGTATATTGGCAACTCAAACATTACATAACA
344 CaSNP2273 AATATTGGAGCTCTTGTCTGTTCCCTGCACTCTCCAATTCAGTAAATGATAGCAGGGTT [A/G] CAAGTATTGCAGGAAGACACTGATTTATAATCCTCTAAACTGTTTCTTCTTACTACTTG
345 CaSNP2274 TTGGTTTTAAGCCACCTTCCTATGATCAAATCAAAAACAAAGTACTTGAAGCAAAAAGTGG [A/G] GAAGACAATAAGGTCAATGAAGAACACAAACTAACTTGGAAATAAGACAGGTTGCACTAT
346 CaSNP2275 TTAGTCATGCTTCCCAACAGCTAGATAACTTTATCCATGACTACCAACAAGTTGCAACA [A/C] ATAAATAGTCAAGTGAACATCTTTTGTATTTTAGGGAATGAATCATGTTGAGATTATG
347 CaSNP2276 AGAAAAGGGAAGGAGATTTAAATGGGTTTCGATCAGATAAAGGTGGTGAATACATAGGTTT [A/G] TTTGAAGAGTATTGTAGAGAACACGAGGTCAAGCTTGAGAAAAAGTTTCAAATACACAT
348 CaSNP2278 ATAAGGTGAAGTGGGTCACCTTGTATAACTTCTTGTCTATGGTATGATTGTTGTGCTTGG [T/C] TATCCATTAGATAAAACCTGAATGATATATTTGGGGAAAACCCGAGCAATGTATGGGC
349 CaSNP2279 ATTGAATGAAAAATGCAAAAACATCTGCCACTTTCTCTGGCATTGGCCATAGCATGATA [A/G] TTGATGACTGACCTTCCCATGACTAACCCTTACACCCGCAACTGAAGACTGAATG
350 CaSNP2280 GTGAAATGGATCTTCTCCATAAAGCACAATGCTGATAGGAGTGTGAATAGGTACAAAAC [T/C] CGCTTTGTGGCAAAGGGTTACCCCAATCATATGGGGTGGACTATGAAAAACATTTGCT
351 CaSNP2281 AAACACACAAGGCAAAACAAATAGAGTAGTAAATCTGACCTTTACAGTACTATCCAACAG [A/G] GCAACAGCAATATATTTGGCATCAGGGCTAATTGCAACCAACAAGAATCATCATTCATT
352 CaSNP2282 GTATGATATTAGAATTGGTTATTACTGAGTTATAAAAATATAGAATCTATTTCTCAACAA [A/G] AGTTAAGCAATACTCAGATTCTAACAATCTCAAAATCATTACTTTGTAAGTCAAGGCTAT
353 CaSNP2283 AGCGGCTATAGTGCTACAGCATAATGAAATTTGGACAAATGCAATTTGTTCCGTGATACA [C/G] GATTTAGTACAAAGTGTGTTGAAATTCAGCTATAACGCTATAGCCTAGCAAAATTTGAC
354 CaSNP2284 TGTGAAAGTTGATATTTTACAGAGCTGTCGTAATAAGTGAATTTGGTACATAGATCTTTCT [A/T] TTGTCAATTGTCACGTACTCAGTTAAAATTTGAAGCTGTTGTTGTTATTACATTTGCT
355 CaSNP2285 TCTTTTTATATAAGAAACATTATAGCACGGTACCTTCTATTATTGGGTGGAAGCCACAG [A/G] ATCCACATAAAATTTCACTCAATGATAAAAAATGTTTGGAAAGAAATGTTGGTAGAGAACA
356 CaSNP2286 ACAAACACATTGCATATCATTCACAACATTACCAATTCATGCCAATAATTAGTCCAG [A/C] AAACAATTTTAGCATGCATATAATAATATTTAACATATATACATCATCATGCATATATAT

357 CaSNP2287 GAATGCAGTACTCACAGTTCTAATACTGATTCTAAAAGTAATAGTGACACTACTCGTGTT [T/C] ATTCTAGCAGGGCAAACCTGGGATCTGAATACTACGATGGATGCATGGGATGAAGCAAGTG
358 CaSNP2288 ATGAGAAGCTTCAGCTTGTGATTCTTCAAATCAGATCCTCTTAGTCCCTTGAACCTAGTTT [A/C] TGGACTTGATTTGCAGCATATACAAACAGTGCTTGAATTTGTTAAGTGGACAGGTTTTGT
359 CaSNP2289 CCCTCTAGTGTATTTCCCGATTTTCTGAGTCTAAATCCTTGCTTTGTACAACCTTTTATG [T/C] ATTGCTCTCTTTATATCTGCCATTTCTTCCCTTGTATATCTGTTCAATTTATTTCTTTA
360 CaSNP2290 TTTAATGACAAAATATTTAATTCCAAAGTAACTCTTAATTACTTAGTAGATTTAAGATTA [T/G] AATTAAGTTCAAATGTGCAAGAATCTCGTAATGATCTATTTGCTCTACAAAATCTCAA
361 CaSNP2291 AAATTGATGTTATCATTCTGGAGATTGATGTTAACATGTTGGAGAATGATGTTAGCATG [T/C] TATGATTAATGTTAATATGTTGGAGAATGATGTTAGCATGTTGGAGATTAATGTCAACAT
362 CaSNP2292 TTCTAATGGCTCTTCGTGATGATTTTGAGGGTCTTCGTGGGGTATTGTACATCGTTCCC [T/C] TCTTTCTAATGTTGAATTAGTAGTGTAGTGAATTGCTGGCAGAAGAAATCAGACTTAAGAC
363 CaSNP2293 TGTTCCAGATTTTGGCGTGAATGAGGTTGCATCTTTTGTACAAAGCTCTCGCATCCTTT [A/G] TAAATCATGGAGTACTCTCTCATCTCATAATCAACACGACGCCGTTTCATATGATGGTGT
364 CaSNP2294 GAAAGCTTAGACCACGTGGCAAACCTGGTATTGCTGATTGGAATCACTAGTTTTTTGGGAC [A/C] TGGATTCTCGGTAGTTAGACAAAACCAGCAGTCGTGCAGTAGGACATTATAAGCCGTATG
365 CaSNP2295 TTCACTTAAATGAAAGTTGGAAAATACAAGGTTGTTGACTATGTAGCTCAACATAATCAC [T/C] GTCTTCAACCGTTAGGGTATGTTTACATAAATCACTCTCATTGACACATATTTGAGACTC
366 CaSNP2296 ATCAAAATACAACCTCTTACCACATCCTCCATAAGCTGTGGAGGATACGCCACGTATGAAGA [A/T] GATTGGAAGTACTTGATCATGGAGTTTTGGAGGACAGTGGTGCATGTGATATTACACTA
367 CaSNP2297 GTGTACCAGAATGGCACCATCCCAGTTAATTTGAAACAAATATTGATCTATTGCCTAGG [T/C] GTTGGGAAATGTAATTCACCTTTATAACAGTGAAATACCATGTGGCCCATAGTGCCTCACA
368 CaSNP2298 CAGGCCATAGACCCTGACAGACGGCCTAGCCTATTCTCATCCCTACTCAGCAATATATG [T/G] TTTAAGAGTTCGTGTCGCTCGGACCTCAGATTCTTGAAGTGTCTCAAATGGTTTTCTAATT
369 CaSNP2299 CATATAACACGTAAGTAGAAGGGGACATTTTATTAATTTGAAACAAATTTAATTTAAACATG [T/C] CATGAGTGACGTACCATTTCCCACTAAAATATCATATTTAGAATGAGTATACAAATATG
370 CaSNP2300 CTTTTTCATCAATCTCCAAAATATCAATGACTCTCCAACCTCTTCCAACAGTTAGTCAATCCCA [A/C] TGAGGAGGTATGTCTCTCCACTGAAGAAGTATGTCTCCATCTGAGGATGCGCCACATGA
371 CaSNP2301 GGTAGAACCCTAGAAAGTATGACTTTTCATGTTTCTAGGTATGGTTATAGAGAAAGTTTA [T/C] GTAAGGCTTGAATATCAATTTTAGAGATAAATAGTGAGGATTCAAATAATTAACGGTGT
372 CaSNP2302 TGGTTTAGAAAAATGGGAAATCTATAGCATCATCTTTATATGAGGTTGATCATCAAGTTT [T/C] AGAATTTATACCTCATTGATGTTCTGCACAAAAGGTGCACCTAATGATTTGGTAGACAT
373 CaSNP2303 GAGATGAAGTCTTTAATCTCCAATCAAACATGGGAACTAACTGAGTTACCATAGGAAAG [A/G] AAGCACTTGACAACAAATAGTGTATCGAGTTAATAAGGATCATGATGGCTCCAAAAGAT
374 CaSNP2304 AACCTGATAACTCCTAAAACAACTTACATTCACTAAAGTATTGACATAGCATTTAATC [A/C] TTCAGCTGCAATAAAGAACAAGAAATGAGATAAATGATCATTTTGTCTTAAACCTCTCTC
375 CaSNP2305 TACTAAATTTTGCAGATCCTAGGCTGAAGTTGGGCATTAATTTTCAGTTAATCGGCCTT [A/G] TATTAGTTTATATTCTAAGACTTTGTGATTTGTTTCATTCATGGTCTATCTTTTCTCAT
376 CaSNP2306 CATATCATTCACACAGTACCAATCAACATAATATTTCATAAAATTAGACGGCATAACAATCT [A/G] GATATAAATAAATTCACGGCAATTCATAGGTTGCTAAATTATATTTAATCCTCACTATT
377 CaSNP2307 GAACGAAGATTCCAATGGACCGTTACCCAACAATAGGGAATGGATGTTGTATCTTCCCAA [A/G] GCTTATCATCCTTTATTGCTTCAGAGTCATAGGGCGAATTTACAAAAGGCCAAAGAGGAT
378 CaSNP2308 CTTAAGGTGAAAGTTTTGGTGGTTGTAGATTACATGACACACTTATCAACCTTGCAATC [A/G] CATACTAATTTTTAATCCTACATTCATGAGTACCTTCCTTCACTCATTTTGTGGTTACG
379 CaSNP2309 TCTCTTTCTATTTCTCTCTAATTTTACTTTTTCGGATTTTCTTACCCTGTCTGCATCGC [A/G] CGAGGATGCGATTCCAACGAGTAGAACCTATTTGGATGATGCTTTTTATTTTTTACCAT
380 CaSNP2310 GGCCTGCCATCCATGTATGTGGCATTGTTTTATGTTGAATAGATAGTACTTGTATTTTC [T/C] GGAGCGAATGTTTTAGATCTATACCGTATCAAGTTGGAATAGGTAGGACTTATTTGTTT
381 CaSNP2311 AAATTATACGGAAGGACTAGTAAATGATAAAAGATATAGCAGCGATTTGTAATAGTCCA [A/C] AACCACTTATTACAATAATGTTAGTTTCAATCATTTGTGATATTCAAGTAAGACAACAAT
382 CaSNP2312 ATGTTAGGAGGAGATAGCTATCAACGAGATGAAAGCTTTTGTGTTTCTCTCTAGTTGAC [A/G] GTGGTGTGTTCTTCTCACTAAGTCTTTGTGACTTACCCTTCATGTTGTTATTTTTTTT
383 CaSNP2313 TGACTCAAATTACAATTCATTAAGTGTGAACCTGAATTCGTGACAAAAATGTTGACAC [T/C] AACTCCAATTCATGATTTGTTGTACAATGGGGACCAAGGGAGTGTGTTTTCAGCAAGCA
384 CaSNP2314 TTAATCTTTTCAATAATTTAAGCATATTAGCCTACATAAGTTTTTGGCATATCATAGGTA [T/C] TATTATAAAATGATCATGTTAGATATCAAAATAGAATTTAATCTCATTGACCTATAGTTA
385 CaSNP2315 AAAAACCGATTTCGGTTATCCAACCTAACTCAAGTACACTATATCTAACCTAACCGCACAGT [T/C] AGAATGAAGTTAGTTAGCTGATACAAGGATAGCTAATTTGATACTCTAATAATAATAGT
386 CaSNP2316 AACATAGTGTTCAAACTAAGAATATCGGTATTAGTCAATTTAGCTAAAACCTAAAGGACA [A/G] TTGTATGCAATTTATATGATGACTTTGTTGTTGGTGGTCTAATTTGAAGGACTAAT

387 CaSNP2317 AATAGAAGATTTATAAATCTAATGTTTGAATGAATGTTTTATTGGTTGGTAAAGTTGAT [A/G] CAAGTATAATGATGAGTAACACACTTGAGGAGAGATTGATGGAAATTCGAGTGTGAGTTC
388 CaSNP2320 TCTGATCTATCACTGCCTCATTTACTCATCTATGTCACATCCGTAACAATTTATCTCTCC [A/G] TGTCTCAATTTTCCCTTTTCTTTCTTTTCTTATTCAAATGAGTAGACACCTTTTCATTA
389 CaSNP2321 TTCTAAATGGAATAAACAGGGGTCAGTAATGCCTCCTGGTATGGTTGATGGCCTTGGTTC [A/G] CAGCTTCTTCAGCGCCGACAGCTTTATGCTGGTCCCATGTCTAAGTTGAGAATGCTTATG
390 CaSNP2322 GTCCCTTAAGCTAACACCTCACGGACAAATACTAGTATTGATTGTTAATTGTTTATTAC [A/T] AAAGAATGCACTACAAGAGAATAGTATCAAGCTGATTCTTTATTTAGTGGATATGCTCTC
391 CaSNP2323 CAGCATTAAAGACCAACTTTATCATAAACTAAAACCCATTGGATATAATAACAGTGCCA [A/T] TCAAACACAAAAGACATGAGATATCTTGGTACTTGAGTTTGAAAATTACCAATTAGAG
392 CaSNP2324 TCCACATAAAACAACAAGATAGATGCACCCATGGGTTAGGTGACGATAAAAATACAAAGTGA [T/C] CAGCTTCAGTGTGAATATTTAGAGGCATTTTCGAACATAGTCCCTAATAAAGTATGTTTT
393 CaSNP2325 GAGGTCATGTGAAATGAACACCTTGAGTCAAGTACACAATCACCATCCATGATTTTCAGTT [C/G] AACCTGCCATAAGAACTTCTGTACTTTTCATATCCTTCAGAGGCTATAGATGCATTTCCAT
394 CaSNP2326 TTGCACCAAAAATCTTCACTTATTCTTAACTTCTCATTGCAATCAAAACAAAACAAAA [T/G] GTAGTAAAATAGAATAAAATTGAATTAAAAACATCAAATTAACCTATCAAATAAAACTA
395 CaSNP2327 ACCATGATATGTTTCTTTCTAGTCTCTTGGTATTTACTTAACTTGACGATCTTGTGTCT [T/C] TGTTTATGCTGATTTTTTGGTACTCAATATTAGGTAGCGATCATGGAATCAAAGCACAAG
396 CaSNP2328 TCCTATGATCGGGCCACCCACCCTTATATCCACACACCAAGTCCAATAGTGTAGGCTT [T/G] AGGGGGTGGGGTGAATTGGGAAAACCCCAAGTCTCACATAGAATAAAGATAAGTCACAAG
397 CaSNP2329 GTTTGAACAGGGAGCTCCCTTTCTTACTCTTATTTTATACTTGTACTTTCATCGAGGA [T/C] AATGTGTAATTTAAGTGTGGGGTATTATTTAGGATTTTTATTTGTATATTTAAAAAATT
398 CaSNP2330 TGATGATCTTGTTTTTCTTTCATGACTATGAGTCAATTAATCTTGTATCTGATGCGAGCAT [A/G] TGGATAGTTGATAGTGTGCTATACTACATGTTACACCGAGGAAAGATTATTACATCT
399 CaSNP2332 CTCGAGCCGTTGAGAGCCTGTACCAGGTCTCAAGATACTTGCATCGCCCCAAGTTAAACA [T/C] GTGTTGTTCCAGGCTCGCCTAAGCACCATCCACCAGGAACAACCTGATCCAGGACTTCGA
400 CaSNP2333 AGTCTTAAAGGAAACTAACAACAATTACAGATGTAAGGTATAAGACACAAAATCTCTTCT [A/G] GCATAACATAAACTGAGTCTAGAGTTTCATATCTGAACCTAAAAATGCTGTTGCATTACAA
401 CaSNP2334 GTTGTATTGAGTTCCTACTAATATAGCATCTTGGTCTATCATGGCTTTTCTGGTGAAT [A/G] GTTTGAAACTCCAAAGGACTATCTGTAATGATTTATTAGTTTTACGCACTTACCCTCT
402 CaSNP2335 ACTCATAACTGAATCTTATATTTTTCTTTCTTAAGCTTATAGGGACCAACAGTATTTGC [A/T] TAAAATATTATCATCATTGTTGACTCAGACTGTGGCAAAAATTCATGCTATTATATTGT
403 CaSNP2336 TTTACCCCTCATCACCTTCAAGCATCTTAAAGTTTGAAGACTGTGTCTTAAAGTCATCA [T/C] CCTCATCACTATTTGGAGGTGTTTCAAGTTGATCAAAATCATCTTCACAACTGCTACTT
404 CaSNP2337 ACTGCTTCCCACTTAGAGGAGATTTCCATAGAAAATGCTTCTCTCAACGAAACAGCG [A/G] ATGAGCACAAGTATCCAGTTGACCATTGAAGAATAAACTGCAATCCCAAAGACCAAGGT
405 CaSNP2338 AAAAAGGAAAAATAAATAAGAAATGTTTCAATAAGATTAATCCAAAAACACTCATAACAG [T/C] CTGTTGCTTCTTGACCTCCAAACTGGGCACTACCAACAACCTATAAAAATAGTCTGCAAA
406 CaSNP2339 TTTAGTGCATGATCTAACAAGTTTTCTAATGCAATAGGAAGGTCTATATCAAGATACTC [A/G] ACATGACTCTTAAGAACAGAAGAAGACTTACCTGTATCAAGATGATATGTTGGATTCTCT
407 CaSNP2340 GCGTGCAACTTTATTTCTTTGGTCCCTGTATTGTTTCAGTGAATCTCTAAATGCTTGAGA [C/G] TTCAGTTGCAGCTCGTCACTCTCAGAGAAGCTACTCAAACAGGAACGTTCAAGCTCCAG
408 CaSNP2341 CGTAAAATACTTACAATTACAATTTGATAAGATAATTGGTTAATATACTTTTAAACAACT [T/C] AATTATTTGTATTTTCTAGACCAGGTTTGTACCACATGATGAACTTGAGTTTCTCCACC
409 CaSNP2342 GCATTGATTGCTGAATCAGATGTTATTTTCATATTGGTTTTAATTTGATTGAGGGTTGTCTG [A/G] TTCTCCAGAACGCCTCACTGGGTCTGGAGCTGACTGAGGTTGTCTGATTCTCCATTAC
410 CaSNP2343 ATCTGTAGTATCATCCATTTCAGGTGAATCCTCAAATGAGATAGGTTGTCTTATTGAACC [C/G] GGTTTACGCAGATAGAAAAAGTTGCTTGATGGCACCCCTACTTGCCGGGCTACTAGCCGAA
411 CaSNP2344 TTTTCCATGAGTTCTTTGGAGAAGTTTATCCAAATGGCTCTTAGTAACTTTGCAGAA [T/G] GAAATTTGGAGTTAATATATATTTTTGAGCTTTAAGTCAAGTGGTTTGGCTAGAGATATGA
412 CaSNP2345 TCATATACATTATCACAATGATTCACATAATCCACAGCCTACAATTTGTTTACTACAA [A/C] GGTGACATCATTATAGCCTTTATGCACATCCATCCAGTAACATTAAGATTGGTCTTTTT
413 CaSNP2346 TCACAAAGTAAACAATAAAACATGTAAGTACTGATGAAATCTACCTGCAAACTATATTGC [A/G] GAGAAATGTCAAATGATATACTCTAACCTGTGCAAGTTATCTGAGGACCCGCTCTTTAG
414 CaSNP2347 TTCAACATTATCTCGGTATTACAAATGATTTGGCAACACATGATTTGATTGATTATATTA [A/G] ATACCACCTATAGTATACGTAATGAACACTACCAAATATTTTTTTAGGAAGTTAGATTA
415 CaSNP2349 TCACCAAAGGAAGTAAAAAGTTCGTGCAATGCGCTCTAATAGCGTGTTTTTGGTAGTTCA [A/G] CATGTTTCTACATCTGACTCTGAAGACTCAAGTATAGAGAAGACTTGACTTATAGGGCTA
416 CaSNP2350 GTCAGAGGAAATATATTAGAAACCTGAGAACTTAAACAGCGTAATCCATTGAGAGCTTAG [A/C] AGCGTAATTACATTGAGAGTTTAGCATAAATACTTCTCATCTCCAAATATGAATCCATTT

417 CaSNP2351 AAGTGGTGT TTTATCTCTATGTGTTTAGCTCTACAATGTAGGATATGGTTTTGGTTAGG [A/C] AAATGACAGAAGTGTATCGTTATAAAATGGAATGTTGGATTCTAGGATTTTGTAAATCAT
418 CaSNP2352 AAATCCATGAAGATGACATATATTTTACCTATGAGAACGACTGCTTCTCTCATTTAGAGC [A/T] GTAGCCCCTACAGCACGGTTTTTCTGACCGATTCTCATTTAAATTTACAACATCTCGAGTA
419 CaSNP2353 TTGACGACGAAATAATGGCCAGAAGCATATGAAATGACAAAACCAACAACAGGTCAA [A/C] CGGTCACCTAGGTAAACAAACAATAACCACACACAAGAATAAGTCTCAAATTTTTTTCC
420 CaSNP2354 GTCTCGGTCATTGTAATAATTATTATGCAAGAGCTCTAACTGCTAGCAGAGCACCCTTTAC [A/C] GAGCTTCCATATGCTCTATAGGTGAGTTTACTTGTCTTAGGCTGTTGTTAAGCTCAG
421 CaSNP2355 CAGAATAACTGGGGAAGAATCAAGCATCCCTGGTACAAGTTGCAAATGATGTTGCTGACA [T/G] CCAGATGCAAAGGAAGGTTAAGAGAGGTTGAGAGTATCAAAGATCGAGATTCTTGATAGA
422 CaSNP2356 ACAATTAAAGTTTAAAAATAACCGCTCTTCCCAACCAACTCTATACAAGTTTATGGCCT [C/G] CATTTAGCATTTTTCTTTTTCCATTTTGAATATAGATTTGACAGTCACTTAATTTTACTTA
423 CaSNP2357 TTTCTGCTTCTGTTTTTTTCTAAATGTTGCGCTAAATATTAATCAAATTTCCCAAACT [A/G] TCATTTAAACTAATAACCCATTTTGCCTTCGTAAGTTTTGATGTTCTGGTCAATTGG
424 CaSNP2358 GATATCAGTTTTCTGAACACAAAATGTAATAACTGTACTGCTTACTTTCTACTTCT [A/G] ACTATTAACTTGCAAAATTCGAGGAGAAAAATTTGGCGGCTTCAACCCACAAAAGTAAT
425 CaSNP2359 TGGTGGCGTTGGAGGAGAGTCTGTAATGGGAATAGGAACAGGTACAACGGAGGGCGAGCG [T/C] CGACGATGATATGTTTTGTAGTGGTCGTGGAGGTTAGGGGCAGACTCGACAGGTTCAATAG
426 CaSNP2360 GTGAATTGTGACTTGTGAACGATTTTAGTGTAAATAATTGAGATTGTGAACGTAGTGTGT [T/G] AATTGTGAACGATTATCTGATTAGTGTAGTGTGGATATGAGATTATGAATTTGTGAATT
427 CaSNP2361 TCTGATATACTTAAATCTAAGAATTACTTCTCCTCTTTGTCAATGCAAAAAGGAATAA [T/G] AGAATAAAATAAACTAATTCAGAAAGATAGCGATGAGGAAGATCCCTCAAATGATGAAGA
428 CaSNP2362 TAATATGTGACATAAAAAGTTGATATCCACAAGAACCCTACCCAAATATTTAAAAATAACA [A/T] ATACAAAGAAAAACAGTTAAGAAACATTTATGTAAGTGGCGAGGATAAGAGCAAAAAGAG
429 CaSNP2363 TTTTTTTTTTTTTTTTATTTTCGAGGGTGGATGCGTTGGGGTTCGAAGATGTATGCTCAT [A/C] TGTCAAATAGGGTATTGCGTTAATACAGACATGTCCAAAGTATTCCTAGCTCACCGTTAG
430 CaSNP2364 GAGGACATTCTACACAAAAATTGCGTGAAATAATAAGTTAATTGTATAGCTTTTTATATGT [A/T] GTGTAAGACATGCATCGGTGACAAAAATGGTAACTGAGATTAAGACTGTTTCCCTTTCT
431 CaSNP2365 AATCACATTTCAGAGGTAGACAAAACCAATTTGTCAACTGGTTCATCTATTTCTCTCGGAG [T/C] ACTGACCATTGAAATGTCTCCATGTGCCACCTCGTACGATTCAGAAACTCGTCTTTTCAT
432 CaSNP2366 CAAAGTTAGGTCTTCGAACATAGACTTTTTCTCTCGTCATATGTCGCGAGCCTCCATTGTC [C/G] ATTTACCATGACAGATGTTTCAACTTAGCTGTTGAGAACATTTGCAACATAGTTAATTTT
433 CaSNP2367 TAAATACCAGATTACATGTCTGTAATACACACACTCATTAGATTTTTAAATATGAACAA [C/G] GGAAGAACATATTAGTTACTTCCGAGTTTCAAGACGATTAAGTGCATATCATGGTGATT
434 CaSNP2368 ACTTTTCATCGTTTATGTTTCGTAACAATCAACATTTTCAATGAAAGAAGAAAAGTACG [A/C] ACCAATATCTAACTTGGTATCTTTCTCTATATTGCTAATCACTGTATTAGCCTTTTCATGTC
435 CaSNP2369 ATACCCATGCCTCATACTAGATTCTCACTGGGAAAAATATCTGCTTCAATATGTAAACTA [T/C] AGTGATTTTTGAAATCGTAAGTGTGATAGTTTTGTATTTGATAGACTTGTCTAAGTGAT
436 CaSNP2370 AAGAGGGTGGACATAGCATGATTTATCTGATTCTTTATTTTCAGGAACACCAAGCAGCAA [A/G] TTCAATGCACCAGCTATTGATAAAGCCATTTTCTCCTTGTCACCCACAGCAGAAATCACT
437 CaSNP2371 AGAATTGTTGACTACATTTCATTTCTCTCTCTTCTCTCATTTTTTTATTTAAG [T/C] TTCTCCTTTGACTAATGAACCGAGAAAAATGGTCGAAGATGTTTGAGACATAATCTAATT
438 CaSNP2372 TCAAATGTTTTTCACAAAGAAGGCCTCCACACTTAAAAAGATTAATCGAGTTTATGTGTG [A/T] GTCGTCGCTAATGAGTTTGATTTCATCCTTCTTACGGTCTCTTCCAGCCAACGAAGACAAT
439 CaSNP2373 AGCACAACAAAAATAAGTTTTGTCTTCGTCATCAATCGTCACCCATAACCTCACTAAAT [T/C] GATGATTATTCATTGAAGTTATTGACATGTTGCAAAATAAGATCATTCTACATCTTCAA
440 CaSNP2374 GGTGTAATATATATTTTCATATAAGCTAATCTTTTCTTCCACACACCAACATCCCCACA [T/C] GCCTCTATATTTTCATTTACCAAGTTGTTTGAGAAAATCACTTTAACCGTTTTCATTAT
441 CaSNP2375 ATCAATCATATCTACATCATTACATCCCTTTACATGATTTATTGTAGATCCAATATATA [T/C] CGTTATGATGTGCTGTTTACAAATAATGTTTGATGACCAAGAAGTATACAACCTTTTACA
442 CaSNP2376 GGAGCCGCCGACTAGAATAACCTATTTGGGCTCATAGAACAACCTGCGAAACACCAATAA [A/G] GATGTCCCGTTATCGACTTGTGTTTGGTAAGGCATGCCAACTCCTAGTGAATTACAACA
443 CaSNP2377 TTTTCTATCAGCTATAGTGTCTTTTTCATGCTTTTGATCTTGTTCACATGGATATTTA [A/G] GGTCCGTTTAACTTGTCTTTGGATGGTTTTAAATATTTTTGACCATTATTGACGAC
444 CaSNP2378 CGGGAATAACTTGTTCCTTATCAGCACATCCATGTTCTCTGAGCCTTCTCCACCAGT [T/C] CGTCTAATATTTCAACTGTCTAAAACATGACAAGGAGTTAGAGAGAGATAGGAAGTATGA
445 CaSNP2379 ACCTGCATCAGTCAAGTAAGAAGCGCAAGCGTGTGTAACGAGGTACATCAAGATCTG [T/G] GACAAATACTTCAAGAGGTTCTGCAAAGGTAATAATAGCTCACTACTTTAACTGCATCTA
446 CaSNP2380 TCTTGCATGATAATTAATTTAATTAACCAATAGCATTGGATGTAGGGTTTTGTTATTTTATA [A/G] TTTTTGGGTATGTATAAGTTAGGTTTATTTCAAACCTGAGCATAATATGTGTTAGGGG

447 CaSNP2381 CTAATTTGACGATTTGCTTCGTTTCGTCGCTATTTGATGTTGTTGGTGGAAATCTCTCT [A/G] CACCATCACACCTCTATCACACCTATAATGTTGAGAATAATTTGGCCGAAGGCACCTC
448 CaSNP2382 ATCCTAAAATTGATCATTGAAATTTGCAAAGAAAGTTTGGAGGTATCTGCAAGGAACTAA [A/G] GAGTATATGTTAATGTATAGAAGATCTAATCAATTAGAAAATAATTTGGATATACCAACTCA
449 CaSNP2383 CATGTTTTGTATGGGTTTAAATTTTCATGCATTGACAGTGCATTTATTTTTACACATTTGA [T/C] AAATCATGAGTAATCATGTAGATGATTTTGTAAATAATTTATGACGAAAATTAATATTTAT
450 CaSNP2384 GTTCTCAAATTTGGAATTATTGGAACATAGTTCATCATGAAGTTCCTAGAATGTGCTCCT [T/C] TGGACAGGTAATTTGTAATTTCAAACGATTTTGAATTGAATCGTGTGATTTTGTGTATAA
451 CaSNP2385 TAAAATAATTTAGATTGATTGAAAAAGGTGGGAAAAATATGCGGTGAATCAAGTATTG [A/C] AGACTTGTGCTCAAAGGATGGTAGTGATCATAAGAAGAAGTGAAGAAAGGTGGAGCAA
452 CaSNP2386 AGACATCTAACACTACAAAACAGAACAGCAAAACATGCCAAGCAGAGGCAGAACATTAG [T/C] TCAGCAATAAACTAGAGCAATCCCAATTAAGAACAATGTCATGGCCGATAGCGAGAAGT
453 CaSNP2387 AAGTCCTAACCTTTGCTTGAATGAACTCGATCGAACAGTACTTCTTGATGCATTACTTGT [T/C] GATGAAGACGCTGCTGTATTGCCAGGCATTGGAGGAACTCTATGCCAGTCTCTTGTGCT
454 CaSNP2388 TCCATATTTTAACTCACAATTTCCCATATTTTTATATTAATCAATTTATGACTCAAAGGG [T/C] TACTGCCGTACGCGAGCCATGAATGAATTGTTGGGAAATACAGTTTTTCCGTTTCATC
455 CaSNP2389 ATTGTGATCACTTGGTCTTAAACAGACATTGTCTCTCGCTCTTCTACAGAAGTTGAGTAT [T/C] GTGTTATGACATCCACTACTGCTGAAATAATTTGATTGTGTTGGCTTCTATCTGATATCG
456 CaSNP2390 TATTCAATCTCTTCATTTTCAGACAGTATAAATACACAAGTGATACTGTTAAACTGTAA [T/C] GAAAAAGCACTTCTCTATACTAATACCAATTAACAGGAAGTTGAATGCTTCTCTTTCT
457 CaSNP2391 ATGCTTTCTCTATCTCCAGATTACAACCTATGACCGCCCAATAAGCACGATGCTCTATTT [T/C] CATTGGGAGGTGACATGCCTTACCAAACACAAGTCGATAAGGAGACATCTCTATTGGTGT
458 CaSNP2392 AAGCTCGTAGAAATGTGCAAGAGTTATATATTTGTACTATAAATACCGCTTGTACTTG [C/G] CATTAAACATCATGAAAATGATGAGTTTTCTATTAGAAAATACTTTTCTGCCTCTATAAAG
459 CaSNP2393 TCATTGAGAAAGGTTATTTATGTACTTGAATTTATATTAGACTGTTATCATTGTATTCA [A/T] TTGTTATACACTCTTGATCTCAGTCAAACCTATTATTGTAACCAATTCAGTTATTGTGT
460 CaSNP2394 TTCCATTTTCATAACAACCTTAGTTTGTAAATGTCAACATTCATAATTTATAGCTAGTTT [T/G] CCCTATTTTGTAGTTAGAGACTGTCTTCAAAGCACTGACCATATTTCTGCTTCTCATTTGAA
461 CaSNP2396 AGATCAACATGATTTTCTAGAATGCAATCGCTCACAGATCAACACATTTAGAGTGCAGC [C/G] TCTCATAGACCAACACTAATTTATCAAGGTGCAATCTCTCATAGATCAGCAGCAGCGGATA
462 CaSNP2397 TATTCGTGAAAATCCCTCATAAATAATTAGTAATATCCTGCTCTCTTTTTATATTAATTGT [C/G] CATTATTTCTTAAGGTTTTTTTCGCACACAAATTAATAAATAAATTATTGGTTGAAT
463 CaSNP2398 TTTAATGCACGTTGTAGAATTGTTGTGCCTATAAATGACAATGAATCAATGGTGTATTTC [C/G] TTGTATTGAGAAAGTACTACATAGTTGTGTGGGAATGGCGGTCTAATGTTGGCAATTGCA
464 CaSNP2399 GCTGATTATTCAAACAGAGCCTTGATTGAGTAATTAACAAACGACGGATTCTCTCGTGA [T/G] ATGAACATAAAGCAAGATCACCGATCAATCTTACAGCTATTCTCGAATCGAAACCATAA
465 CaSNP2400 AACTTGCTCAAATTTTCATTAGATAATTAGACAAGCCCTTTCATGGTGTGACGGTTAGTT [C/G] CTCACCAACCATTATTCTTATTCTGTCTTCAGATAAGCACCTCAAAGCATCGTTGTTAG
466 CaSNP2401 GCATTCTCAATAGCAAACAATAAAATTTATCGAATAGTAGACATGTCTTGAGCCAAAC [A/G] TTTAATGGATATACAGAGAAAACATAAACATAAAAAGCATACCATTTGAATGGTATGCTC
467 CaSNP2402 ATTCGGTTTTTCATGAGAGGAACGAGCACATTGAGACAGATTGTCACTTTGTACGGGAGAA [C/G] ATCGAATCAGGCGACATCACTGCTAGCTGTGTTAATCCAATGATTAATTGTCAAATGTT
468 CaSNP2403 TTACAACCTACAAGAGCTGTAATTTATGTGAAGGCAAAATATTAGCCAACAACAATGGTG [A/G] ATAATTTGTTATGAGGTGATGCCATGGTTGTGGAATTTGATTTCACTCTTTTACTTCAA
469 CaSNP2404 TCATCCCACTCTTATATCTGTACAATTTGCAAGACCCCAATAAAAAATGCAAGGGTCCAC [T/C] CTTTTCTCCCATTATTCAAAGAATTAAGTCTATTTCCACTGCAGAAAAGAAAAGCAAAA
470 CaSNP2405 ATATGGGTAACCGTGAAGGTTGTGACAAGAGCTCCGAGACTTGAGTATGTCCATTTGAA [T/G] TCCTTGGTTTCTTGAGGTCATTTCAACACAATCTTCTTCGATCATGAAAAGTTGGAGG
471 CaSNP2406 TAAGTACAATTTATGGTTATATTGGATAGTCAAAGCTATAATATGGACCACCATCTTGGG [T/C] GGTCTATGGTGTACTATAATTTTTAGCCATTAGATTAATTTGTACTCATAATATTATGGT
472 CaSNP2407 GACACAGGCTTGTTCAGAAAATGGAACGGCAACGACGAAGACTATTTAAGAACCCAACA [T/G] CACGCGATTTCTCCAGCAGACGTATCAGGTACGAGGAACATCAGGTAATCTCTGATT
473 CaSNP2408 TTTACTCAGCTCAATTTACAACATAAGCAATGTTTGTCTTTTGTATCAACTCATTAGTC [A/C] CTAGATGAGAAGAAGTTGAGATATAAATAATGGTCTCTCATCAGTCTCTAACTGCAAA
474 CaSNP2409 TTCCAGCACCTTCATTTGGTATTGGAATTTAGTATCTTGATTGAGCACTTACTATGTAC [A/G] AGTAAAGATCCATTACTACTGGAAATACTAGTGAATAGTTGAATTAGTGTATGTTTTT
475 CaSNP2410 GTAAGTTATGTACGGGTACACAATTTACCAAGAAGAATATGTTATCACCCATTTCTGTA [A/G] CTATCAGGACCTACGACTGAACTCTGTTACCAACTTTGTCCAAACCGAAAACCAACCC
476 CaSNP2411 GAACCACTGAAAATCATAAGAAATTAATTTAACTTCAAAGGAGTGCAGATTTTCATCGA [A/G] TGTCTAATCAAAGCCATAATCTCTTTTTTGAATCCAAAGCAATCACAGGCTTGAACA

477 CaSNP2412 CAGTAATCTTTAAGATTTATAGTACTCATGATCTCCATATFCAACTGAACTTTCCATGTG [T/C] AGGCCATAATGCATAAGCTAAGTTATGTGCATAAAAATACAATTATAAGGCACCAAAGTAG
478 CaSNP2413 CATTCACTCCAATATATGAACGCATTGTAATACCTTATTTTGGATTCCAACGGAGGGACAA [C/G] AGTCATCCTCGGGTCTTTTTAACAACAAAAAGCCATTCGGTTAAGCTAGTGCCTGACTT
479 CaSNP2414 TTTTGACATTGCATGTTGATTGTGAACTAGTTCTGCCATTGCTCGTTCTATTGTGTAGGA [T/C] GTTGTATCGGTACCCGCAACAAATAAATCTTATATAAAGTCACAAAATGAAATATAAAT
480 CaSNP2415 GTTATCATTCTATTAACCTTATGTTATTAGTATCTTCACCTACTTTTGAGCATATGCCT [T/C] TCTTTCTATATTTCTAGGTAGGACAAGAGGTCTAATAGAAATGGTACTGAACAAAGTCCGT
481 CaSNP2416 TTCATGCGGTTAGACTAGTGACCTAGTAGCCTAACCAAGTTGATGGCAAACCTAGTCTT [A/C] AAACACTAGAACCTACCATAGGAATAAGAAGTGTTCATCTGTAGGGGCCAAATATTGCA
482 CaSNP2417 CCTATACTTGTGGCTTTGTAGGTGTTATCCATAATCAATACAATAGGAAACATGTTCAA [T/C] AAGGTTATGGAATCTGGGTCTGTCCAAAACATGTCATTCACAAAGTTGGAGTCTTCATGA
483 CaSNP2418 CTGGTTGAGACCAAGGCATTGAGGGTCACAAACAGGGTGAATGAATTCAAACCTATGAGC [A/G] TGTGTTGTTGCCAGCTTCATCCAGCAATTGTGGACAACCTATGGCGGGGAATATGCTTGC
484 CaSNP2419 GTATTACAAAACCATACCTCAATCGCACTTGTCCATTATAACGCCACCTTATGCTTCTA [A/C] ACCTACGTTTCCAGTACTTATTTTGTCTCTTTTTATGTTTTTCTTCTACTTTCT
485 CaSNP2420 ATTACAACCAACATAATGAATTATCTCGCGCAAGCGATCGAGCCTGCTCAACCATCGCCA [T/C] CACCTCCACGAGATGTCACAAACAAATGTTTTATGACTTTCAGTAGCTTTTCTAGGGAG
486 CaSNP2421 TTCAAATATGAAACAAATAGTCACATTTTCTACATCCTAAGTAGTGACATGTGAAATCTC [T/C] GGTAAGGTACGACGTGAGTTTAACTCTTGATATATATTAACCTGATGAAATAGATTTGT
487 CaSNP2422 CATCTGCTTAAACGAGGTCTTTAATGAAGGTGCATTGTTTTGCTGTTGTGGAATATTTTG [A/C] TGCTGCTGCTTCTAGGTTGCTGTTGTGCAGATGAATCCCCCATCTCAGGTTGGAATGG
488 CaSNP2423 ATTAGCTGTGTAATTCTGTAACCTGCATTAATTCTATATACTGCATTTAACTGTGTAATT [T/C] TGTAACCTGCATTAATTGATTTGTTAAGTACTACTACGACTACTATATTTCTTGTTCCTC
489 CaSNP2424 TCCTTTTCATTTTCATATGTAGTTTTACAAAATCACATTCATACCATTTTACATTTAATC [T/G] TACAAGTCTCTGAGGTGTAGCTCAAGTGGTTGACCTGGGCATCTGAATGAGTTTGAGAA
490 CaSNP2425 AAATCCATTCAACATGCAAAAGTTAAAAGTAGCGTATAGCCTCGAGTTGGGCAACTGGC [A/G] CATAAGTTTTCTCATAGTCGATTCTCTCTTGGTTATATTTCTTTTGGCCACCAATCTAA
491 CaSNP2426 CTTGTCTATAACTAAGGGCAATAAAGTAACTTGTAGTATCAATATCTCATGATAATATA [T/C] AAACATCAGGGAAGTTGGTCTACTTACAGATTGGTAGAAGCAGCAACCTTGATTTTAGC
492 CaSNP2427 AGCCACACCAGTCTCAGAGCCTTCTTACCCTGATTCATTTTGGATCCGAGACGTTATC [A/G] TTAGATGCAATAATAGATTGATACTCTTCTTCAACATTGCAACCAACATGGGTAGCTAAG
493 CaSNP2429 CGTAATCTGCCAAACTTACCGTTAATTCAAACATGCTAAGTATCTAGTAGCAAGAATGA [A/T] TTTTGAATTCGGAAGTAGTAATTACAAGCTAACATAACAATTAGAGTTATAAAGAACA
494 CaSNP2430 TAATGTAAATTAAC TAGAACATTAATTGCATCCGTTAGTAAAAAGAAATGTATGACCTACA [A/G] ATCTAGAGTATTACATCCGTAACAATTAATTCCTTTTTTTCAGAGGATTAGTAACATTAA
495 CaSNP2431 GTAGGTGTTTATGGAATGGTGGAGTTGATAGGTGTTTGTGGAATGTTAGTGAAGTAGTT [T/G] ATGTTGTTTGGTTTGGAGTGTGGTCTTGGTGGGAAGAGGATGTCTTTTACATCTGAGGG
496 CaSNP2432 ATAAACATGTTGCTGTTTAGCATATGATTGCTTCACGAAAAATATATATATCGAAGGTTT [T/C] GAGGGCTATTGCTTTTTTAGTAGACAAATTTATTAAGTCACAACCACAACATACCATC
497 CaSNP2433 GTAAATAATCAAACCTAAATAAAAAAGAAATCAAGAGAATTGACTACTTGAATAGAGAGGTG [T/C] GTAATGACACCACAACATTTTCGATATGTGGTTATGGCTCCCCTTAAAGTTGTATGGACCC
498 CaSNP2434 CGATATTGGAATGAAATTTGGAATGGAGCATATAACACTATGGACAATGGGGTCTGAG [A/G] TTTGAACATGTACGAATTCGAAGGAATCAAATGTTAATGAGGTTAGTTTATCACTTTATC
499 CaSNP2435 AGAGTCTATCAGCCTCATCCAAAATCAAAATCTGCAAGCTAAATCACAATAAAAATCCTA [C/G] CCTTACTAATACACAATGTACATTGTCCCTACTTTTGATAAAACAACTTAATTAACACT
500 CaSNP2436 ATAAATTATGAGTGATAAACTAATATTTTCATGTAGCAATTTTAAATTTTGAATAAAA [A/G] TAAAGATGACAATTTCTTCGGTCCAATATGGTTTAGTTTATGATCAATTATATGTAG
501 CaSNP2437 CAATGTAGCATTTGTTATCTATATTGAGTCAAACTTTCTTTTATTGGATTTGATATCTTTT [T/C] GAAAGTATACACAATGTTGATTATATTGCTTTGGAGAGAACATGTCAGATGAATTTCTT
502 CaSNP2438 TCGTATGATAATTGATGGAATCAGTTTGTGATGATGTTTTCTGATCTTACTACTCTAAAGT [C/G] ATCTCATCCCTTTAAATGAGTTAAATGTTATTCTCTTTTATGTTATTTGGCACCTATCAT
503 CaSNP2439 AGAGGAGGGAATCAAACCTCGCCGATGAATTAACATAACATTTCTAAACACAATGTTGATG [A/G] TTAATTTTATTTTTAAAAATATTAGTCTTCACTTTTGGAGTAGATACACTCACAAAATAG
504 CaSNP2440 TATGGCTGAGATGTAGATTGTGGGTTGGTATTGATTGATTGATCGGGATTGTTATTGAAT [C/G] GATTGCAATGTATGATTGAACTTTGCTCATAGTAGTATTAGCTATTTCTTGGGTTCA
505 CaSNP2441 GCAGTGATTGACCAACTAAGCTGTGACTCAACTGATTTTATTAGCAAACCTTATTGGTT [A/T] TTTTCAGTGATTTGTTTGTGAAAGAAAACCGCCTTGTAAATTTCTACCAATTTGATG
506 CaSNP2442 AAAATACTTTGTACTTGTATTGACCTTGTTAGAAGAGTTTTCAACAAGTAGCTAAAGTTA [T/C] GATCAACTAGACTTTGTTTTGGATAATACAAGGCTAAGAGCCTTGGGTTTTAAGAATATA

507 CaSNP2443 GCATAAGGTCATCTTGAATCTTTCCATTTGACAATATTACTCACAAATCACAAGAAACGA [A/C] TTCCTTGTAAGAGATTAATGAATAGATTTGAATGTGGACAGGAGACTATCATGAGTAGA
508 CaSNP2444 GTCTTTGATACCATGTTGAGAGACAATCAAACCTCAAATCCAGGCTCCAATTTATTTTTGT [A/C] TGGAACGGGGTATCAAATTTGCCAGTTGAAAGTTACACAGTGCATATATTTCTCAAATTT
509 CaSNP2445 TGACCAGATAGAAGTCACAAACCATGTTTTAAACCCATAATGGACATACTAGTAATGAAC [A/T] ATACCTGTGATTGAGCCAACAATGATCAAGCGCTTTGAAGGGTAATCAGATTTCTGCAAG
510 CaSNP2446 TGGAAGATAGTAGGGCATTACTTTGAAATTAAGTGGGAATATACATCTCGGTTTGACTC [A/G] CATTGTAGGTTCTTACCTTACAATAATCCGTTTGAAGAAATAAAAAATACATTTATTAAG
511 CaSNP2447 TTATATGGAATGAAATTTTATAAGGAATGCAATATGTAATATAAGTATTTGACGTGCCTT [T/C] ACTATCAAGGTGTCTGCTTACTGTTTACATCATTGCGCATCTGTTTTTACCACCATA
512 CaSNP2448 GTCATGTTAATCGGTACAAGTGAAGGTTGTTGACAGGTGCTTTGAAGCCAATAAATGTGT [A/C] GAATAATAATATTATGTTAGTCAGGATTATAAAGATTGTTTTGGTATAGATGCATGAACC
513 CaSNP2449 CAACATTTTCAATAAATTTATGGCTTATTTGACGTTATCATCTTTTTTTAGGCAACTTCGT [A/T] TTATTAACCTCTCATCTCATTAGTATTAATTCATATCTCTTAATGAAATACTAGTGATT
514 CaSNP2450 TTAATCCGACAGCCCAACTGTTTTAATTTCTAGGTTGAGCTTTGTGCTGTAAACCGAGTT [T/C] GGTTGATCGGTTAATGCGTGACATCGTGTAAAGAGATTGCTGTTGTAAGTGACACTATC
515 CaSNP2451 CGTTTCACTTGAGTCTTCACTGGAAGATCTAGGCAACTTTTGTCAATCAACAATCTGA [A/T] TCAGGATTGGGTGAACATGGCTGTTTTGAATCCTACAAATAAGTGGAGACTTGGAAATTAG
516 CaSNP2452 CAATAGACTATAAGTTCTTCTTCAACCCCTTACATGACATACCCCTTGTATTTTGTAGTA [C/G] TACCATCATGTAGTTTTCATTTAATTGTACGGACTCCAACAATCTCAAGGCGTAGTCAT
517 CaSNP2453 TGGTGATATGTATCTTTGAGCATCATTATCATTTTTATGACATATCATATGCATCTTTGTG [A/G] ACGCTGTGTGGCTGGTTTAAATTTCCACATTGGTATGGGTGACTTCTGTGTGGACGCC
518 CaSNP2454 GAGTGAAATAGTTTGACTTTGCATGTATATAACGATATTAGTGAGACTTCTAACTTCACA [T/G] TGTCTAACTTTATTGCATGAGACTAATGGTTTCTTTGACAATTATACCATTTACTAGTA
519 CaSNP2455 ATCTGAATTTCAATTACAATTTATATTATTTGTTTATCTAATTAACGTTATGCATCAAGTT [A/G] TAGCTTACCATTTGTGTGTCTCTGCATGCTCCTGAGCAACCACATTGTTGTTTCTGTCTG
520 CaSNP2456 CCCAAACTCAAGTTAGAAGCCTAAAGAAGAAAAACAGCCTCCAAATGTATGACCAAGTC [C/G] ATCTCTAGACTGATGAGTTGTGAGCAAGGACAACAAGGACGAAAGAACATTGGTGCTGCA
521 CaSNP2457 CAAATAATTTCTCTGGGAACTATCAGATCCACTCTTTGAATAGGAAGAAACCAGATAA [C/G] AGGATGGTAAGAATATCATATGAAGAGAAAACTGTATCTCCAAGACTACAAGCAGACAA
522 CaSNP2458 CCTTGCGCAGATTAATTTATAGCGGATTCGGATTTTCTCTAATAACATTATGTAGTGATG [A/G] GTTTAGATTGCTCTGATGACATTACGTTGCAATGGATTGAAATATCCTCGGTGATAAA
523 CaSNP2459 TGATGTAACATGAGGTGGGAACATAATACATGCTGGTGTGCAACACTTTAGACAGTGG [C/G] GTGACGATAATACCATGCTTGGCGCAATGAGATACTATGCTTTTCCGGTTGACACTAG
524 CaSNP2461 GTAACATAGCTCTCTATCACTTATATATATTTTTATGCTTTGTGCAGTATTTTTGTGACC [C/G] TACTTCTTGTGTTGTTGTTGATTCTGATTATGTAACAGGTGATTTTATCTCAGACATT
525 CaSNP2462 AACGTTAACCTAGGTACTTTCCACCTTTAATAGCTAATTTATTTCAAATGAAGTGGCTG [T/C] AATTTGCGTAGAGATATTTTCTTCCAAGTATGATTGGGGTTGGGAAACCTATTAAT
526 CaSNP2463 TGGTGACTTACTCGAATTCGAGGCAGCAAGCAATGAAAACATAAATAATTTGACACATA [T/G] ATTTAACTTGGTTTACCCTAACCTCGCTACATACAGTTCCCTCATTGAGGCTTTAA
527 CaSNP2464 TGCTTTCTAATGTCTATTTAAAATATAATCATTACATTACATTTGTGTAGTAATGTATAATA [A/G] TATGGTGTCTGATTTTTCGTTGAGATTTTTAAATGTTTTATTGCTTTGAGGACTGG
528 CaSNP2465 TAAATGGTGGTGTGTTGGATTCTAATTCCTGTGCATAGGCGTATTCATAGATTGAATCA [C/G] TAGAGTTTGAAGCGTCAAGGAAATTACCTCATGTAAGGTCGAATTGAAGTCATGGATGT
529 CaSNP2466 CATAAATTTCCATTTGAAAACCTGAAATGATTGTGAAAATTGCTTATTGGTTAGATAAAACA [T/C] GATAGTTGAAAATAATCTAGGAGACTAGGAGTATATTGAATATTACAGGCCAAAAGGCAT
530 CaSNP2467 CATACTATTTGTACCTCTTCTTATTACATAAATTAATTAACCAATGGTATGAAATGA [A/T] TGGACACCCTTTGTAAATCAATTAGTGTGTTTATCATATTAGTCTATAATATAAATAAG
531 CaSNP2468 GTAAGAGGAATATGCTAATTTGATAGCATTCTTTCTTTGGTGATCAGAGGATCAATTTTG [A/G] CTTATATTTCTTTGCTTCAACGCTTTGACTCAGTACGTAGATTATCAGATTCTTGATG
532 CaSNP2469 ACGGGCTATCCCGCCTGTGATTAGCCCGCAAAAAGCACATGTATCAGTGCATGCACT [A/G] AATACCCGTATGAAATGTTGGTGGTGTACCCTTTAGGAGGTGAATACAACCTTCAATCA
533 CaSNP2470 GAAGCATAGTTCTGGTAACTAGAGAAAATGCAACCTACTCTTTTCATGTATTCTAATTCT [A/T] ACATGTAATAATCCTATGGTATTTCTGTTTCCAATTGGATTGATTTAATGGTGTTTTCTC
534 CaSNP2471 TTTCTTGCATGAGGATAATAACAACGATAACCCCTTTTGACCATCCTCATAACCAAGAAAA [A/G] CACACATGGTTGAATGAGAAGACAACCTTACTGCGATCTACTTGGGGCGAAGACAAAAC
535 CaSNP2472 GGATGTATCATTTCAATGTAATAATAGGGGGACTCGTATCCAGACAGACAGCATGAAACTG [A/G] TTGCTATCGGTACAGGTGAGTTGTGAAAAAGATGCAAAATCACGGTTTCTGATGGCTTCT
536 CaSNP2473 TGTAGTTGGGCCAGAAAGAGAAGGTATCCAAAAGAAGCCTTCATTAAGGAGTCCCTTAGA [A/T] TATTATTAGACAAAACATAACATCAGCCATGGAAAATAAAAAGATATGTATATATCTGA

537 CaSNP2474 TCTTCTCTAAGCATTATGCAGGACTTGAGTATATGCACCTTTTGATGAAGAAGATATACAC [T/C] CGAATGTTAGAAATTATAGATAAAATGCTCTAGGAAATTTATTATCTATAGACAAAATTT
538 CaSNP2475 TAACCCACATTTAGTCTTGGTAAAAATTAACCCACCAGAGTTGGTAAAGGTACATCAGGT [T/C] GTGGCAGGTGTGTTGAGGGATTAGTCGATCCATGCAGGTAATAACCATGTGGTTGGTGAG
539 CaSNP2476 TTTAAATATACATATTTCTTCTTTATAAAATAGGCCAAGTTTATGATCATATTGCTTCACT [T/C] TTCTTTATATTTCTTCACAACTTCACTCTTCTTTACATTTTCACTCTTCTACTCTTTATA
540 CaSNP2477 GCCAATGACTATGGACCTTCTTGGGATCCAATTACTAATAATACCTTCAAAGGAAAACC [T/C] GCAAGAAGTGATTAATTAGATCCTCTACCATAGCACCCGGTGACAGTTTGTATGGGGAG
541 CaSNP2478 TATGTAGGATATATCCTCTAATGATCAGATTAATTCAAAGAAAAAGACTTGGTACATTCC [A/G] CATGTCTAATATAGGGATAAGGGCCTCTTATATATTGCCTCTAATGGTACAAACAAAGGA
542 CaSNP2479 TTGATGGTAGCTAATATGTGAAGATGCACAAATTCATCCTTTTAAATATGACATTGTTGA [T/C] ACTACAATTCTAACCTCAATGTTGTATGTGTTGATTTCCAAAAACAAGATTTAATGTTTA
543 CaSNP2480 GGATGAAAGAGTTACTAACCCAAGTCCATACGAACCTTAAAGTTGCACTCCGTTTGTAAA [A/G] TTGAGAACATAGGCATCATTGACAAGTACACCAAGGGATGAGTAGTGATCTGCATACTCA
544 CaSNP2481 ATATAAAAAGCTCGTCACACTGATATCACGCGACTAGATCGAGTAGAAGTTCAACTCAGC [A/G] CTCTCCAACCTCGCCTATGCTTGTAAATGGTAGCGTGAACCTGACGGATCTAAGAAACAAC
545 CaSNP2482 TAATTCATATAACAATTTGTTGTTTTAGCTAATCATCAGAGCTTGTAAAGAGAGATTGATA [T/C] TCATAACAAAGTCTTTGTGGTAACAATAATTTTAACTACGCGATAATATCATATACTTGT
546 CaSNP2483 ATCAAAAGCACAATAATCCAAGATCCAGAATCCAATAGAAAATAGTGGGAGAGACAAAC [C/G] GTACAATCACCAGTTTGTGCAACATCTATTGAAGTCTTCTAGGTTTCTTTGGATTGGGAGA
547 CaSNP2484 TTTACCAAAAGCGAAGGCGTACCATGCAACTTCCAACAGTGATTAATAATGTGTCTAAAT [T/C] GATTGCAATGCTCACATTTGGGATGAGGTTTAGAGTTGGACGATCCTCTGCGAGAGCAAC
548 CaSNP2485 ATATACTGCTGTATCTACTAATTCACAAATGGACCCCTCTACGTCACAAATTAATTAAT [C/G] GAATCAATGTTACTTCTACTAACGCTCTAATCTAAAATACGTAAGTTTGGCAAGAAG
549 CaSNP2486 AAACAATCGGAATATAGCGCTTGCAGGCAAGAGAACTAATGTTATAGAAGAAAAGATA [A/C] GATACCTTGCAAGTACCAGGAAGTAAAACATCAACTTCCCTGTCACCTATGGAGTATGCC
550 CaSNP2487 GAAAAACCGGCATTGACATGCCCGTCTATCTGCTTCTTCTATTGTGTTTCGCTGCATAT [A/G] TATATTTTATTGTATAATATTTGTTTCATTTTAATTCATTTGTTTCAGTTTATTACGTA
551 CaSNP2488 TTTTATACCCATATTTTCTACTTCTACATATTAATTCGAGTTATTATTGGTTGTGCTTTT [C/G] TTTCTACACCTGCGAGTTGCTCATTACGCCCCACTTATGCCTCAGACTTGACTACCCAG
552 CaSNP2489 ACAGAGAAATGAAAGACCCATTCTCTGACTTTTCCAAGATTCCAAATAATAGATAAACC [A/G] ACACATCGTCTTGATACAGATAGGTCTTCTATTGTTCTTAAGAGTCATGTTGAGTATCCT
553 CaSNP2490 TATCTTATGTGTATATCTTATTTATATTCAACGAATTTGTATCACATTTATCATTATAC [A/G] TTTGCATTGCAATACCATATACATTTTTCCTTTAAAAACAATACACGATGATGTTTT
554 CaSNP2491 TGCAGCAGGAATGAGACACGTTTTTTTTGTGAGGTCATGGCAAAGTGCAGTTGCTAAAA [T/C] TGAAGTGAGTGGTTAATACCAAAAAACAATAGAGTTGGAGCCTTGGAGGCAAAGTTAGTA
555 CaSNP2492 TTTTATAGCCTAACAAATAACAATGTTTTTATAGATGAGCACTCTAATAACCATGATTACCA [T/G] CAAGGAAGCAACACAACAAGTCAACAATATCAACATTCAAATAACAATCTAAATTTCT
556 CaSNP2493 TGATAGGATCAAATTTACTATCCAATCCAGGCACATCAATTACCATGCTTTCCATTGGTG [T/C] ATGATTGACCTCTGATGTTGTTGCTTGAATGCATCTATCGTTTGGAGCTGCAAAACATGTA
557 CaSNP2494 CAAATAGCCAAAAGTCGCATAGTGGTTGAAATAAGTCAATTTATATATAAAAAACTCATGCC [A/G] CACACAAATAAAAGAGGGAATGGAGGAAAATCACAGTTTACATATGAAAGGATTACTTA
558 CaSNP2495 TACAGAGTTATTGCCCCCTACACCCCTAGTTGCCCATCTAATAATCAGGTTGACCAAC [T/C] GCCTACTTGATACTACATATGAGCCACACTCAACAAGATTGATGAATGACATCAACAAT
559 CaSNP2496 AAGGTAACAAACAATTAAGGATATATTTACTTCTCAAACATATAAAGATATTAATACT [A/G] TGGAAGTGAATCATTATTAATGTTAATCAAGTGAATGTTAGTTAATTAAGTATTTTATA
560 CaSNP2497 ACAAATATATAATCTGAAAGTGACCAATAAGAAAGGTTGCATTGCATATCGCTCAAATT [A/G] AGTGTGGATCCTTGCCACCTACAGATACCATCCATTAAGTACAGAGGAACCCACCGGAA
561 CaSNP2498 CATAGTGTGGGATCTAGTTGCTTGTGTTGTTATTACAAGCCTATATCGTGTCTGACATTA [A/T] TATTTTTATCCACTTTAACTCCCAAAATCCTAAAATCACCAAAATTTCTAAAATCATTCTG
562 CaSNP2499 GTCAAACTAAATATAGTTATATATCTCAAATAATTTTATATAAAATACATATCTTATAAA [T/C] CGGACCGCTGAGCTGAATTATGTTATATTTTAAATACCATATTTGACTAAAATAAGAT
563 CaSNP2500 TCTTTCACCTCACTGTATGTTCAACGTTCAACTCTCCATCTACAATTAATTTTACTCTAT [A/G] TTTTAGGATATGTTTGGTCCGTTGGCTGCTAAAATTGATTTCAAATGAATGATCTTGT
564 CaSNP2501 TTTTCTTATAAAAATAGTTATCACTCTAGCATAGATATGTCGTCATACGAAGCTCTTTAT [T/G] GAAGAAATGTAGGCTCCCTTGTGTTGGTGTGAAGTTGGGAGAAGTCTTTGTTATGAC
565 CaSNP2502 ATGAAGTCTCCTCTTAATAGACATATAGCATATATTTACTGGAATATATAATTATGAGTG [T/C] ATTTCTGATATAGTTCAAGGTTTGGACTCTTAAATTTCTCACGAAAAGATATGAGACACA
566 CaSNP2503 GCGAACAACTCACAATGTCAGATTAATATTTATAAAACCACAAATTCCTATAAATATA [T/C] TAAGATTAATAATGCTTAAATATCCATGCGTTCCGGATCTGTAATATTGCCGATGCTAAA

567 CaSNP2504 CAAGAAATTTGTAGGCCAACTACTTCTGAATTGAATTAAGAACTGCACACAAGAATACTC [T/C] GATACGAATACTGGAAGATCAATCTCATCAAGATCTATAGCAGGGAATGCCGTATCTATA
568 CaSNP2505 ATCAGCATCACTGTAAGCAATCAATGTAGGAGGTGTCCCAGTAGAAAAGAACAAACCCCG [A/C] TGAGAGGCACCTTTCAAGTAGCGAATTATACGACGGACAACCTGCTAAGTGAAGATGACGA
569 CaSNP2506 TAAAAATAATCATTTCAACAACCTTGACTCCTTTTGCACATCAGGGTATTTGGAGTTTAGA [T/C] TACTTGAGTTTGAACCTCAGGTCCTTGTTTACAAAACCTGAATACCGATTTAGTTTCAA
570 CaSNP2507 GTAGCCAAGTTTGTGGTGAACCAAAATAAATTATTTGTGTCACATTATTCCTGCCTCCT [T/C] AGTTTTTTTTATTGCTTCTACTCCAAGTAAATCATCAAGTCTGAACCAGTTTAAATCAAATA
571 CaSNP2508 CATCCAAGGGGAAATGGTCATTGTAACAGACAGCAAGTTAGACAATCAAAGGGTATCA [A/G] GAGGAAATAATGTTTGACCTGTATTGACATACGAGGGGAGAAGAGAGAGGAGTGCCAAAA
572 CaSNP2509 TCTGTGTATTTTCAAGTGAATCGAATTGCAACATTTACTTATCTAACTATTCAAAGGT [T/G] TTTTGTTCAGCGTCAAGCCCTCTGTAAAACCTGATCTTGTGTAGATGAAGCAGATGCCATGA
573 CaSNP2510 CTTGAGGACTAACAAATTAATGACTCTTCTATGAATACACATTGCCCTGCCATGGATTTT [C/G] TGTCATCCACTTGTGGCCAGTCAGCATCTAAGAAGCCTAGTATATCTAAATCAGTAG
574 CaSNP2511 ATCAGATTACCTCAAACAAGGACACAATACCTAGAAAGTGATCTTCTATCTGATGGTGAC [T/C] CTACCAATCAGCATTAGAGTAGCCAACAACCTTCGGTGTACCCTTGTCTTCATAAAGTA
575 CaSNP2512 CTATCAACAATATCACTCATATTAATTAATATATGTTTATAGTCTAACCATATGTAAC [A/G] CTGCAAACTATTTATCAAGAAACAAGTTTGACTTAAAAGCTAATAACAATTCATCTCTTG
576 CaSNP2513 GTTTCTCATTTACCTTAAAGGTTAAGGTGTCATCCGCCATATCAATCATAGTTCTCCCT [C/G] TTGCTAAGAATGGTCTCCCCAAGATCAAGGGGATATCATTTGCTTCTTCCATGCTTAGTA
577 CaSNP2514 GTGGCTAATTTAGATCTCGTGTAAAATCTACTTTAGGATTAGTGGGCTTTTATTAGTT [A/T] GAGTTGGCTATTCATGGTTATAATTATGCTTTTTAAGAGTGTCAAATCTATCTTTTGTAT
578 CaSNP2515 TTTTAGCTAAATTCAAAGTTGGTGGTTGATGTTATGCGGCATATGTGTAAGGATGAAATT [A/G] AATTTGGTGTATCATTTGGGAATACAAAAGGTTACTTTTATGTACTGTTTCAACTCTCA
579 CaSNP2516 TTTGACAAATTTGGAGGCATCATTAAACATCACTACTAACAGTCACTTAACCTTCATA [A/G] ATGACGAAGTCCCGCCGAAGAAAGAGGGCATAACAATGCGTTGCACATATCAGTAATGT
580 CaSNP2517 CTTTGATCTAGTAGTCCAATATGGGTTAACAGAATAAGATTTATCTATTTCGTAGCATTCA [T/C] AGTGCAGTTAGGTTGGTTTGGTCTTCTCTGCAAAGAGCTTTGAAGTTCAAGGAATGCATT
581 CaSNP2518 AACTGCCCAACCCACCTTCTAAGAGTTATCTACATGTGAATTATTCGACCTAGTTAGGA [A/G] AGTGTATAGGTACTAGTAGTTGTCCGCAAGAACATTAGAAACTAGAACAGACTGTAATT
582 CaSNP2519 CTAGATTGTTGATCAATAATTAATATATATTTAGAGAAATGAGATGAGTTACTTTCTA [A/C] TTTGTACAATAATGTCATGATGACCGTTCATATATTTCTAGTTGTTAATTCGCGCAACC
583 CaSNP2520 AAACCTTGACATAACTATAAACTTGACATTTTATCTAACTCTAGTATGACTTGGTTGTCCA [T/C] TATTAGATATTTCTATAGAACAACCTCTTCGTTTACAACCAAAATTAATGGCACTCATCTGA
584 CaSNP2521 CATCTTATACCGATTTATGTACTCTTCTCCATATCCTCGCGCTCCATAAGCTGCACATA [T/C] ATTGCTCTATTAATAATTCGATAGATAAATCATTATCAGCACTTAGTATCCCCAGGGT
585 CaSNP2522 CATATTAATAAATAATTTAGTTCTACTCCATTGCTCCCTCTCATGCATAGAAGTGTGTTT [T/C] CAGTCACTCACAATCACTGATACAGAACAACCATTACAAGTTAATACTTGCTAATGTGT
586 CaSNP2524 GTTGTAACTCTGTACCTTAGGAAATATAACATAAAAAGAATATGCAGTCATAAACATG [A/G] TAAAAGAAGTGTGCAACCTTTATCGCTCATCCATGATCTGCTGTGAAAATATATGATG
587 CaSNP2525 GGTCTATATTTGTTTAAAGTAATGCGTGCTTATAATGAACCTTTTGTATGATCATTCTTCAG [T/G] GATCATAATGGAATGTTAGACCTCTTTTACTTTATGAAAACATTTGTGTTTTATTTTTTA
588 CaSNP2526 CTGATCAAATATCTGAACTTGTGAAGATAGAGAGATCTCAATAAATTATGTCATGAATC [A/G] AATATGATGGAACCGAAAGGAGTCAACAATGACAATGTTTGCATATAATATAGTGTAT
589 CaSNP2527 ATTTGCACCCAAAATCTGAACATTTGTCAAGTATCATCAGAATAACAAGACTTCTGCAG [T/C] GTGGCATTACTTAATGTTTTCAAAAATGATAATGGGGCTTCAAACACTCTAGCAACTTTC
590 CaSNP2528 GTCAGCATGAACAACTGAACTAACAGCCTCCAGTAGTTTTTCATGTTCTCAAACACTGCTA [T/C] TGTGTAGTCAATTCAACTGTGTATTCTCACCACAAGCACATTTTATCATGACAGATT
591 CaSNP2529 ATCACACAAATTCACACATTATACGGCAGTGTCACAATGAAGAAACAATTTCTAGATCCC [A/G] GCATAATAAGAACCAGTGAAGATTTGATAATCAAACAATGTATGGAGCTTAGGCAAAAT
592 CaSNP2530 ATCCCTTGCAACGTTGGAACATCAATCTGTTAATATGAAGCTCAACTTCGTGACCTT [T/C] AAAATAATTTTCATGACTACTATATGTTGTTGCTTTTCATGTTTAGAATGTAAGTTGCCAT
593 CaSNP2531 ACAGAAAAGTTTCAAAGTATACATAAAACAGAAAGACTAGCCAATTTGTTGGTTAAATACGC [T/G] AATCAAAAATTAACAGTGAATTCACCTACAAGTTAACCTAATCCCTTTTTGACCTAAAGG
594 CaSNP2532 TAGCAAGATTTTCATGAGAGGTTATGGGAAAAACATCTAGAAGCCTAAGAAAATGTGCT [C/G] TTCATCTACCTTCAGACATTGTTACCTAGATTTAAATCATATGCACTAGCAATGTAAAAA
595 CaSNP2533 GCCCAACACTCCTACTATTCTCCTACTCTCCCGTATATATAGCCCTGCTTGGGACG [A/G] GGTGGAATGCCAAAGTAGTCGGCGAATCCTGATCAGAGAAGTCTAATGTCCCTTTTCATTG
596 CaSNP2534 ATTTTGAAGCTGTCATCTCAAGAATCTTCACAGGACCTATGTATTATGTTCTATTGCG [A/T] CATCCACACAAGTATGTATACAGAAATACAACCTGTAGAGTAAATTTCTCTCTGCGTTTGG

597 CaSNP2535 CACGGAAAAATGATTGCGTGTACTCAGCCACGGCGTGTGCTGCTATGAGTGTGCTGCC [T/C] GAGTTTCTCAAGAAATGGGGTTAAACTAGGACACGAGGTTGGTTATTCCATACGTTTCG
598 CaSNP2536 TAAATACACTACTTGTCTATTATTTTTGTTTTATGAATGATAGAGTTTGACTGTTCAATAT [C/G] ATTATATCTTTAAATTTGAAAGAATATTGTGAAATGATTGATATATACATATATGTAAAT
599 CaSNP2537 TTTTCATGAAGCTAACTTTCTTTGTTTTCTATTTATTTTGGCCAAAGTCTCTCTTAGTAA [T/G] CATTCCGAAAATACAAGCTTCATTTCTTGTTCACAGGTCAATAAAAAAGAAAGGAACATA
600 CaSNP2538 GAAACAAAATAGATACAAACAAGAGATTTCATATCAATTGAGTTTAAATTTTCATATCGAAT [T/C] GAGATATGACTCACACGTATCATACTGATAACCATGATTCATTCATATGGTCAACAATT
601 CaSNP2539 TCATATCTTGGCATGGTTCATAGTGCACCTTCATGATTTAATGAGTTTCTCCCTCCTACT [A/G] CAAGTAATCCAATTGAACAAAAGCAGGAGTTGGATCGACACAGCACCTTCTTCATTGCCC
602 CaSNP2540 AGGAACATCAATACCATACATTTGTAATATGTGCAGATGCATTAGTTGTGTCATACACATT [A/G] ACAACAATGGTTTGCTTGCTTGCAAGTTGGTGTAGAAGTTTGTCCACCAGTATGGAACA
603 CaSNP2541 CTTTCATTGCATCTGAGAATACCTTCGTCACCTGCTCTTACAAAGCTTCTATTTGTTACATC [A/G] ATCTCTTTATTTGTTTCATGGCATTCTTCTGCAAAAATGTAAGTGCACATATAGTATCATT
604 CaSNP2542 ATAGTAAATAACACCTATTCTGTCTCACATAGATGGTGTGAACACAGAAAAATCATTGG [A/G] TATTACTTACCATGGTTGTGGGGCTAAAATGATATCAACTATATTTGAAGGACTAAAGTG
605 CaSNP2543 ATTTGTCTTCTAAGTATTGAAGCAAGTAACCTGGTTTGTAGGGGCTAATGGAAGGACTGG [T/C] AGAGAATGGAGGAAGCTAGTTCATATCTACGGTCTCGCCTTGGTAAAGAATGCAATGTG
606 CaSNP2544 AAGCTAATTAATATGGATTGAAAACCTATAACACTATTCAATCCTCGAAAACAAAGCCA [A/C] AAACCTGTTGTGTGAACATATGCTAATGTTAGTGCAGACTGTCTAAACAAGTAGTAAAA
607 CaSNP2545 AACCTCCACCAAGGATAATATTTACCAATCATTAGGAACCTATCTTACATACTGATC [A/G] CACTCCAACCTCATCTTATAAATCGACTGATTCAACACTGCCTCAATCTCCACTACTCCA
608 CaSNP2546 AAATTTTCGTTTCGACCCTTACTTTGTTCTCGATTGGATTTAATGCTGCTTATTATTT [T/G] GAGTTATCGATTGGGATAAATGTGTGGGTATAACATATCAGAGCTTCGACTAGCAATCCA
609 CaSNP2547 TGTGCTTGTATATAACACGTTGATCCTGAAAAGGTCGCCTTAGAGAAAACCTATATATCT [A/G] ATGAAAACAAAAGCTTAACCTGCACCCACTCTAACCTCACCATATTATATCAATCTTCAT
610 CaSNP2548 CATAAATTTTGAAGTCTTCAAGTTGATGTTTCATCCATAGCAATCGAGTCTGCAATTAG [T/C] TGCTGAGGTATACTCTGCTTCTGCAATAGATAGAGCAATATTGTTTTGCTTTTGTCTTGA
611 CaSNP2549 TTATTTTAGTAGAACTTAGCTTCGCAACCAACGAAAAGAACACCTAATATAACACCC [A/G] CTATTTTATTTTAAATGATTAGGACTTTTGTATTATTTAATTAATTTTAAATGTTGGA
612 CaSNP2550 CTTAAGGCTATGGGGCAGCTTTGGCTACCCAAGAAATATTATTTTCTAGAACAAGCAATT [A/G] TAGTTTTATGTTTAGTTACCTCAATTTTATATATTAGCTACTCTAAATAAATTTATTAG
613 CaSNP2551 CACCTAATACAATAAACCGTAGAAATATTGCTTTGAGGTTTTCAAGGCAAAAACCTATGGC [A/C] TCTAACTCAGAGTCATGTGTGGGACAATTCCTCTCACGTGCTTCAATTTGCTTGAAGCA
614 CaSNP2552 TTTGGAGTAACAACTAACTAACTAAAACAGTTACAAGTAGCTATAGCTAACTAACTAAC [T/C] GCTCAAAACAGTTTTCTCTTCTTAATTTGAGTATCACTTTTAACTGACATTTAAGTTTAA
615 CaSNP2554 TCAAGCAAACAATCGATTGGGTCCCTGAAATCATCGAAGTGTGTGAGCCTAATCCCCAAC [A/G] TTAGCAATATTCCAAAATGATCCCTAAAATGTAAAATGCTAATCAGATTCATCTATTGT
616 CaSNP2555 TTAGACCAATCTTATAACTTTCACCTGCTAATTGATAGTATAATACCCTCCTCCTGCC [A/C] AGCTTTCACCTATTTCAGGTTGGCTAATGTCTCAATAACTAAGCTTAAACAATTTAAAGG
617 CaSNP2556 TTATGTGTAATTTTCAATTTTGGACATCTCCACACATGGTGTGAGCCTAAGTCTTTACTCAG [A/G] CTTCCAAATTTCTCATTGGGTGAAAGCTATGGAAGAAGGCTTGCTTCAATACAACAAA
618 CaSNP2557 GTTGAATACATGTATACACTAATTCATTAACGGAAGTCCACAGCATCATTTATGGTTGA [A/G] AATCAAGATAATGAACCAATATTTGAAGGAAGTGAACATCTCAATATAAGTAGCAAGA
619 CaSNP2558 TAGGACCCAATTCATTTCTTATTCCATATAGACCAAGTCAAATCTTGCAATTGATGCCAT [T/C] GTTATACTTTTCGTAGAGCATTGAGTAATATACCAATAACTATCAAATACATTTTTTTC
620 CaSNP2559 AAGTCTGCTACCTGCCTGAAAGATTTTAAATGTTTGAATTGATCAAATATCATCTGATTC [A/C] TTGCTCCTCAATACCAAGATACACATAATTCACAGAGAAATATATGGATACTCATTAAAGA
621 CaSNP2560 TCTTGACCGATCTCATGGGACAAGACAATGAAACGCGTGCATCCCCATTATGTTCTACTC [C/G] AATCATTACCAAGTACATGAATATCAACACACAAAATTAAGGTTGGCATGAGACAATT
622 CaSNP2561 TATATTTTAAATTTGTATCAAGATTTTGGTATAATAAAATTAATCTTAAACGTGGTTTTCT [T/C] CTACATCAGTCCATTAATAAGTTAGATACTATGTACACATGTGACAAGTATACATGAA
623 CaSNP2562 GAATTGAATTGATTGAATTACAAGTAATTGACCAGTTTTCTGTACTTATTTTTTGTATG [A/C] TGAATCTATCTTTGTAGGAATCGGCTAGAAAACAAGGAAGCTTTGACCTCATGCTT
624 CaSNP2563 CCATATGGCACAGATATACATTGTATGTTGTAACGCATTATTAACAAGAAATGCATGT [C/G] ATACTAAAAATGTACACAAGTATAGACAGACACTCCATGTAATGCTGTGTCCATAAAT
625 CaSNP2564 GAATGATGAAAAGGGTCTAACAATAACAGCCTGGAAAGGCTAAAGATGAATATTCAAAG [T/C] CTGAAGAGGCATAGTAAATAACTTGTATGCTACTATTTAAATAGTGGATTAAGTCATC
626 CaSNP2565 GCACTGTAGTGTGGCAAATTTAAACAAAATCACTATTTTCTGCAATTGACAACATTGAT [C/G] TGACATTTATCTGCATTACGATGAGAGTTCACAAGTTCAATGGGTGTAGGCAAGGAAAC

627 CaSNP2566 ACAAATTGTGAGCGTATCTTCTTGTGAATAATTCTGAGTCTTCTTATTTTGAATAATTC [T/G] GAGTGTATCTTCTTTTGAACAAATTCTAAGCAGATCTTCTTGTGAACAATATTTTGACCA
628 CaSNP2567 CATCGATTGAGCACAAGAGAAAAGCCAATTTGGTACCTAAATAGTATATACAACCCAC [A/G] TTCAGGGAATACACCGAAAATAACAAAACCCATATCTTATAACAATTGATGCTTTAG
629 CaSNP2568 TATTGCAAATCATGTCAAGGATGATAGCAATGAGAATGTAAGTTCGTGTGGTGTATGGA [A/G] TATCAAGGTGGACAAGAGTCACTCTTCAACCGACGACCTTCTGGTGTGCCAGTATG
630 CaSNP2569 AGAAGGATTTAATCCACTAATCAATAACTGAATTACAAAGCAACTAACCCCTCCAAGGT [A/G] GTCTTCTCAAACAACCCGACAACCTCAAACCTTTTGGAGAACACACACACCTTAACTTTAC
631 CaSNP2570 TCCAAGACATCGTCATTTACATGTCAATTTGGTGAATGATGATTACTTTGGATGATGTT [A/G] TCAATCTTCTAGGATGTCTGTGAGTCTTACAGTCCACCCGATGTATATAGAGTAATGACA
632 CaSNP2571 ATAGCAACACAAATTATGCATGAATACTAAAGATTTGCTATGTTGATGTTGCACACGTTA [A/G] TTGTAAAACCTCAAACCTTATTACAGAGAACCGAGTAAAGCTTATTAACCTTCATTTAAC
633 CaSNP2572 TCCCTGCTCGCTTGGGAATTGATATAGCGGGTAAAGTCTGATAGCAAAAAATAAAAAAC [A/G] TGTTGACTAATTAATCATCTTTTCTGTAAAGTGTATCATTATGTCTCTTTACTCATG
634 CaSNP2573 AAAATAAACACATAACTCAAACGAGGACGACGATGAAAGAGAAGACTTTGGAATTGAGT [A/T] CCTCGAAGATAACGAAGAACATATGTCTGATGATTGTATTGGGAGAGACATCAAATTGA
635 CaSNP2574 AGCTCCATTATATCGTACGTGAAGAAAGAATCATAATAAATCACAAGCTTATCATATTCA [T/C] CGGGTTAAATGGAGATTTGGAGAAGTCATCAAATGTTATAAGTCGGTGAAGTCTAAAG
636 CaSNP2575 GTTGATATTATATGCATATGTATAATCAATTGATTTATTCAATTTAGTAACTTCTCACTT [T/C] AGAATAGACAATTCATTTGATAGTTTACACTTTCATCTGCACCTCAATTCATTTTTAAAA
637 CaSNP2576 GTATATGATCATTATTTATATTTCTCATCATTTACATTTCTCATCATCTACATGTATATCTC [T/C] CCCATCAGTAAGAGTTTCTGTATGGGGCTTAGACGCAACATCAATGTATCTTCTGGAATT
638 CaSNP2577 AGACTCCTCAATGCTTCCCTTACGCTTAAACCTTCTCGTTTCATCTCTTACTCTGTTC [T/C] CTCTTCAAACCTTTCTCGCTCGGGATTCTGCTTTTCCCCACCACCACCACCACCACC
639 CaSNP2578 AGCTAAAAAGCAGGAGGAGACCGGCCATCAAATTTATGGTCTTTTACATCAGCCTATTAA [T/C] AAATAAATATCTTCAAACATAAGCAAATTTATCAGATTGTACCTAATATAAAGTTAATC
640 CaSNP2579 GGGCAAGGTGAATAAGTGGAGAAGTGTGTAGGTAAAGGTGTCATGTGGTCACTAGCTCTA [A/G] AATCCAGTATTCAAAAGAAAATTGAAACTTACCAAGAGGAAGTGTACTTGTATATACCAA
641 CaSNP2580 GTTAACTTTCTCACGAGTGATACGTTTCGATGTGAATCACCCACTTGCACGGTAGACCTG [T/G] GTAACCTTACCTTCCAGGCCCTTTGTAGTCCCAGAACAACTGAACTTCATCGTCTTCTC
642 CaSNP2581 CACTTCTCTTCTTTTGTGAAGCTTCAAAACTGAAGGAGCTTCTCTTTTGGACTCATG [C/G] TGAGTGTCTTGGAGAAGTGAACCATAGCTTTAATATTGTTCAACAAGAAGTGGTTTCTCA
643 CaSNP2582 AGACTCTAGTTTCTTTTACTTTCTTCTATTTAGGTGCAATGTTTCTCTTCTTTTAGT [A/G] TACTTAGTATTTATCTTTAAATGTAATCTTTTCAAGTACATTCCTCCGCAATTACCCACT
644 CaSNP2583 TTTGAGCAGGAAGAAAGTGAAGAGTTAACAAATGCACAACCTGTAAGAAGTATGGGA [T/C] AACTTACAACTCATATAATGGAACACGCCATGCCAAAGAAACAAGAATAGACATTGGC
645 CaSNP2584 GGATACATTGAATCTTCTTTAATAAATTTGATACAAAGTTTACGGGTATTTGGATTCT [C/G] TAATGTTTTGAGAGAGATATGTTGATCATCTAAGCATTAAAGTCAATATAAGAGTGTAT
646 CaSNP2585 CACCTTCTAGCCCTTTTCGGACTTCTGCTCCTGCTGGGGCTTCTGCTGCGACTCCTTGAA [T/C] GACTGCTCTCGTACTTCTCACCTGCACAGATAGTATCCACAATTACATTTGTTTAAATC
647 CaSNP2586 TGCATCAAACTTGTAATACTTTCTAAATATATAAACATCTACCAAACCATATATAATTA [T/C] GACTCTTCTTTTGGACAACTCAAACAAGAAGTTTACATAATCACAATTATTTAGACAT
648 CaSNP2588 AATCATTAAACCTACAATTTTCCCCACACACTACTTTTATTGGGAACATCTTAAACAAC [T/C] TAGGACAACGTGCACATTACACATCTCCCTACTCTCTCTTTTTTCTTTTCTCATACC
649 CaSNP2589 GGGAGAACTCATTAAAATCATGAAGTGCATGATCGGTGCCAATATATGAAGAAATA [A/G] AGCCATCGAGTATCTTCGGAGTAATGATATTCAACAAGCGGTGACAACTCCATAGAGAC
650 CaSNP2590 TATTTTGTTTAAAGTGGTACAAATATGCCTTTGTTTCTTTGGATTCTTCTTCAATTCTA [A/C] ATCGGAGAGCACAATATTTTCAACCGCTTATCCACATTCATTTTTCTGCTTTTG
651 CaSNP2591 AAAGCAAAATAGAAAAATGTCACCCCTTTGTAACGTAGCCAGTAGTGGCTTTAGTTTG [T/C] CTCAAATAATCTATAGGCTTCAAGTTGTGTAGATAAGACTTGACTTGTAGGTCCAAGGTG
652 CaSNP2592 ATAGTTTGGTGTGTAACAACAGACATCTGAGATGTAGTCATAAAGGACTACGAGTGCAA [T/C] AGTAGCCCAAGTGTATCTACATGTACTATCTAAATTTCTAAATAGAGAAAGTACTTCGC
653 CaSNP2593 TATAGCTGGTGGATCCAATTGAGAACCATGCAAAGATGAAGAAGCAAGAGTGAAGCTA [T/C] GAGAGATTTGTTAGGCTGCATTGTGCGAGCATCGCATGTCTGCGGATTCTCTTCCACCCCA
654 CaSNP2594 GAGGTAGTTAGGATGGAGAGGTTGACAGGTCATGTTGGTGTATAGATGAAATATATGTGT [T/G] TGATAATGTGTTATTGTTTGGTGGAGATGTATTGGAAGGAGGAATGATAAGGTCATTGAT
655 CaSNP2595 GCCATAAGGACCAACCAGTGTGCTGAGAGCATCATAAGAGAGCCTTTAATGTTATCCC [T/C] TTTAGAGTGAACCTTAGTGAATGAGTTAATAATATGATTCTCATTTTTTGGATACCCTT
656 CaSNP2596 ACCTACTATAGATATCAAATATTTTGAATCTTTAACATTTCTCTTCTAATGGGCATGTT [T/C] TGTTGGATTTTTAATGAGTCTATTTGATGAACTCTCGCAACTAGGAAATGATCATATAA

657 CaSNP2597 ATAAAGGAAAAATTAGAAAAATTC AACACTTCATTCATGGTTCAAATAGATTGGTTATT [A/G] CTGAAGAAGATAACACACAAGGCAGAATAAAAAAGAGATCAGCTATAAAGCAGTTGATAG
658 CaSNP2598 GGCTCCCCGACCCCCCTGCCTATCCCAATGCCTCCAGATGATAAAGATTGAAGATTTGTT [T/C] ATGACACAGGCAGAAAAGTACTGTGACTAGATATTTTATGCTTCATAAAGTGAAGAGAGA
659 CaSNP2599 TTATGGTGTAATAATAAATCCTTGGGGTACCGCTTTGTCATAGTCTATAAACCGGACCTTG [A/T] GAACAAAGGGCAGATGTTTATTTCCACATGCATGAGACGACATTTAGCAGAATTAGCTTT
660 CaSNP2600 ACAGATTAAGCATTTCAAAGATGAAGAGGGAAAAAAGATTCCCCCTCTTCTATGTCTTA [T/C] TTTTGTACCTCTTTTAAATGATATTTACATGTACCTCCTTCTCAACTCAATTCTTTGTCTG
661 CaSNP2601 GAATAGCTGCTGCAAAGTGGTGAGAAGTTGGTTTGGTGGTATTGACCTAATTGTTGAA [T/C] AGCGAAGCTGATATCTGGACGAGTGTGGTGAGGAGATAAGTTTGCCAAATTAGTCTTCTA
662 CaSNP2602 TGAGATGTCACAAGAGGAGATGCAACATGAGATGTACTAGGAATATGTGAAACATGAGAT [T/C] ACAAGAGGAGGTGCAACATGAGATGTCATAGGTGATGAAGTAGTAGTATAACATAATGTA
663 CaSNP2603 TCGTAGCCTTTAGTTGGAAGAGTAGTTAAAAACATAGAACATTAGTCGACTTTGGTTGC [T/C] GAGTGTGTTGTGAATTCCTAAATGTATCGGTTCTAGGAAAGATAGGGTTGAAGCAAATCAT
664 CaSNP2604 CAAACGGAGCAACAAACGAGACTCTCGGTGTTAATTATCGAGCTCTAAATGACCTCTTCA [A/G] AATTTCCACAAGTAGAGCAAGCTTCATAGACTATGAGATTTGGGTTCAAATGGTTGAGAT
665 CaSNP2605 TGTGATCTTAATGAATTAGATTAGATATAGACATGCAAAGGACAATAAATGTATGCAAGT [T/C] TATATAGTAATTGTCATGCAAAAGGTTACGATTACAATTTGACGATTTACACTAATTAA
666 CaSNP2606 TAAGCTTACATAACAACAACGCAAAAATGGAGTTTGTGTAGAACATCATTGAATAGTTAT [A/T] CAATCCAGTTAGCTATAACGATGTCAAGGAAGTCAAGGCTTAGGAGCCATGCATTCTCAA
667 CaSNP2607 AATTGAGCCATAATCTGACCTTGACAGTCGAAGGAGACAATTGATAGAAATGTCTCGACC [A/G] AGTGGGTGAATTAGAGAACTTAGGTCAGGGTCAACACAAGTTTTTTTTCTTATCATTTCCCT
668 CaSNP2608 GCTACCATCAAACTAAGTGTAGACATTTTTTTTCGGTTCGGGTTAGAGCCAACCATCAAT [A/G] GTTAAACAACCTTGCAATTTATTGGACTTCGATTCCCTTACAATAGTAGGTTCAAAAGTTTG
669 CaSNP2609 TTATAATTTGAGGTCCGATAACTTGTGGAAATATCTTCCGAAAAACTGAAAGTTTATA [A/G] GTTCAGAAAAACAGTAGTAATTGTTGTAGTTAACCCATTAAGCAAAAAAGGATTAACAA
670 CaSNP2610 CTCCAACATGCTAACATCATTTCTCCAACATGTTAAACATCAATCTCCAGAATGATAACAT [T/C] AATATGCAGAAAGTCTCATCAGTCTCCATAATGATCAGATTTGTCTCCAAAATGTTTCAG
671 CaSNP2611 TGGCTAGTTTGAACCTCTGCTAGTAACAAATGTTGAATCTTCTCATAACTCGAGGTTTC [A/G] TGTCCAAAAGCATCATCACACCACCATCATCACCCCTCTCAAATAATACCAATTACT
672 CaSNP2612 TATTGCACACACACACACTAAATATAATATCAAGCCTGAAGGCAGTAAGGTAATCAG [T/C] GATCCAATCATTCCTCTATATGTTTCTGGTCAACCTTCTGACCTGATTTCATCATTTTCA
673 CaSNP2614 TAATCTTAGGACTACCATTGAATCTAGAATAGGTAGGAAACAATTGGCTGTATGTCATG [A/G] AAATCGGGTCAAATGGGTTATCTTCTTTCTCGAATGACTGGTTGTTGTATTGATTCCG
674 CaSNP2615 ATTTCACTTTTTGAGAGCATAGCTTTGTAACACATTTCTTATGAGATTTATTACAAAA [T/C] CCATAAACACGTTATGTTTGTAACTAGCTAGTAGTGGCTACATCCCTTTACATCTTGA
675 CaSNP2616 TTTAGGCACAATCTGTCTCATTAATAATATCATTAAAAATATGCTTGGAAATATGAAGCAA [T/C] TGCTTATACATACAACCTTGGTGTGCTTGTCTTCTAGAGCTAAGGTAATAACTGGATTGGG
676 CaSNP2617 AAACATTGTTTGAATCTGTTACGTGTTTCTCAGTGTAAAGTAGAAGTGTACCCTCAAT [A/T] GTTGTTAGCATCATGCAATAAATCTTCATAGGAGTTTGATATTCACCAAGTAGAGATTGT
677 CaSNP2619 TGACAAAATTCATAAGGAAAAATGGGATAGAGATGAAAAAGCTTTATTAACAAAGATAG [A/G] CTACTTATATAAACACCATCAAATGAAATGCGTAGTTATTGCTTTTACAAAGTATTTGTTA
678 CaSNP2620 TACTATATTTCTTCGTGCTAAATCATCTGCTCAATCTGTACACCTTAGCAATGGTGTCT [T/C] CCTTCAAGAATTTCTTTGCTTAATGGAAGTTTCTTGGTCTTTTCTGAAATTTAATG
679 CaSNP2621 TAAATCGTGATCATAGTTTCAACACTTTTCATGCAATAACCCCTAAGGACTGCAGAAAA [T/C] TATGCAGTTACTAATTACCATGCATTAGACAATCACCCCTGAGGCTGTACAGGGAAGTC
680 CaSNP2622 ACGCTTGTCAATATATGGTGAGAAATTC AACATTTTGATTTGGTGGAGCAAAACAGTG [T/C] TCGTTACCTTATTTTGGCAACAATGGTAAGAGAAATTTGGCCACACCAGTGTCAACTGT
681 CaSNP2623 TTCTCACACAAGAAATCATTAATTGTGCTTTCTATTCTCATCGATGATCATATAATGGTG [A/G] GTTATGTTGATTATGACTCAAACATAATCAATAATTTGTGAAATAGTTACAATTAACGTA
682 CaSNP2624 CTTTCGCTGCTCCCGTTGACTTCTTATTGCTCCTCAAGTCGTTGAGTCCATGTAGAAACA [A/G] TCAGTCTAACACATCGACCTCATTCAAATTAACATTAGTTATAACATGACTCGTTTTCGTC
683 CaSNP2625 GCTAATTGTTAATCGAGTTTGGGAAGTGGATATTATGGGTTTTTGGAGATAATTATTTT [A/G] ATGGGAGAAGAGCTTAGTGAGCAATATGCTTAGTACTCTCAGCTGTGAAACTATAGTAGA
684 CaSNP2626 CTGAACAGCAGGTATAATCGATTATCTCACTCTGTCCACCCTTTTTTATGCAATAATCA [T/C] GTGACTCTCTGATGGCGAATCTGTTACAGTTTGTGATGTTATTGTAATCTCTAATTTA
685 CaSNP2627 TTATAAAGAGAATAAATTTGTTGATTGAATTATATGATTACATGCATGCAGGTTGTGTCT [T/C] GATGAAGCAAGAGCAATGTATAATGGTGGAGCGGCAGGATTGACATATTGGAGTCCATAAT
686 CaSNP2628 AAAACTCTGAGTGTGAAAGCCAAAAAGCCTCAGGTTGACAGTTTAAAGAATACTTTGTATC [T/C] TGTGGGGCTTAATCATCTGTTAGCCTTTACTAAGAAATATGAAAGATTCTTGATTTAT

687 CaSNP2629 TTCCAACGAACTTATTTCTGATAGCAATAAGTTAACATACTCACCCAGTAGGGAATTGT [A/C] AACTAATAAATTACAATTACAAATGAAATTCAC TCAAAGCCACATGCCAAGTGATAAAC
688 CaSNP2630 GTGTGCTAAGTGATAACCTCTTGAATACAGGTTTGGCCTGCTATAATCTCCACTGGTTCT [A/G] GTAATTATCCTTTGAATGCAAGTTACAAAAACAGCAGATGGATATGCATTCAGGTATGCA
689 CaSNP2631 GTATGACTATTAGGGTGTCCAAGGCATAGATGCCAAAGATATTGAGAAGTAGCAGATAAA [A/G] CACTACTAGAAACAGTATAATCATTGGATACAGAGATAGATTGGGAAACTCATAGGCCAT
690 CaSNP2632 AAAGAGTCAATAAGAAAAGTAAACTCAATGCTGCAGAGATAAGAGTATTGCCATTTATGAA [A/T] GATTATACGAGACAAGATAGGATTAGGAATACAATCATTAGATAGAAGTTGGGGTAGTTG
691 CaSNP2633 AAGCCGTGAACATCAAATTTGTATCTATGCTTATATGAACTTACTTTGTCTCTTTCCAAC [A/T] TTAATAGTTTAAAGCTCCTCTTGAAAGACTTGTTC AATTTCTGTTCTCTGGCAGTGAAG
692 CaSNP2634 ACAAGCAGTGTATTAAACTCTGACCAGTTGTGCGACTCGGTTACGGTACTAGGTTAATGG [T/C] CAAACTAGTGGGTCGCTAGTTGAACCATACAAACTGGTCTATATTTCAATTTAAACAGTTT
693 CaSNP2635 ACTGAGCACCATGTAATTCATCCAACAACCTCCTCTACTACCGAATAGGGTACTTGTCCG [A/G] AATTGTGGCCTTGTTCAGCTCCCTATAGTGCAGACACATCCTCCATGTGTCATCTTTCTT
694 CaSNP2636 TGATATTTTAACTTGTATGCTAATCAAGGACGATGTGTAATGCGGAAATGAAGATTTAT [T/C] GGTCTCACAATGTCTTAAAGCAAAATATTTTCTATGAGTAATTTATTGAGAGTTTCAAT
695 CaSNP2637 TTTCTAATTGCTATGTAATATATTTTAAATTCATCGTAAAAAATCATCCTCGATTACATA [A/C] GAAGAGAAAATGTTAGATATTTAGACAAACTTACCAACTAAAATTTCTAGATTTGAAAATA
696 CaSNP2638 CGTTCATGGAAAAATATATGGCACATAACTCAATAGTATTAGGTAATAATAATAATA [A/C] ACACAATTCACAAGCAACCACAATTGACACAAC T GACATCTTACTAACAATAAACCGACA
697 CaSNP2639 GACAAACGCATTTCTTAACGCACCTCTGCTTAGTCTGTTAATACAAACTTGTCTGATGAT [A/T] TTACGCTGATAACTTTGGTATATAAATTTGATCATTTGATAAAGTCAACAATCTAATAAA
698 CaSNP2640 CATAAGCTAAATGCAATATATTAGTATTAGTGGTATATGCACGCCTTCTACATATACAC [A/T] TCTTTATTTTTTTCCGCAC TTAATGATGATAATCAATATGGGGCTAAAGATCGTAAATTT
699 CaSNP2641 CATCAAGATAAGGTTGATCTTTCCTAAGATTTGCATTC AACCCAATGGTAATGCTAGAAG [T/G] ATATATGGTCAAACCAATGGCTCTCAAGACTTTCCCTTTTCGGTTGAAGACTTATATGCT
700 CaSNP2642 ACACCAGAAGAAATGACAGAAATTGAGTCCTTAGCAGATTCTGTTAAGGGTGATAGATAT [A/G] TGCAGGGTGAAGAACATGGAAGGAATCTGATACTCCACC ACTCTCTTCTTGGAAAGCTG
701 CaSNP2643 GTAAGAAAAAACAATATTAGACATGATATGCAGATTCAGATGGACCGTGGCCATGTT [A/G] CTATTAAGCAATAAATTTGGGAGAAAAATGAGTACGTAACCGATGAATATGATGATGATCA
702 CaSNP2644 TTTTTATTGTATTTGCCATGATCAGTTATTTTTCTAGTATTACCATGTTAGTT CAGCTTA [T/C] CTGCTTTGTAGTGAAATTCATTT CAGTTGGAAATATGATACCCCATGTTTAGATTAGGT
703 CaSNP2645 GAGTATATTTTATCGATTGTCTCTCCTACATTCATTTAAAATAATTCGA ACTTTTCGTATG [A/C] TGATGTCTATTCTTGTCTCCTTGACATGGCTTGTACATTCATGATGAGTTTGAATGTGT
704 CaSNP2646 TCAATAACAATCAAGGAAGCTCAATTCGTCTCTATGCAATTATCTACAAAGCAAAGTTT [T/C] CTCTAGAACAACAAAAGGT CATCCAAGGAGAGTCTCTTATGGACCAATAATAACATGTTCT
705 CaSNP2647 TTTTTTCATATATAATAGAACTAAAAGTAGTTAACATTCATTATAAAAAGTAAATTTGGC [A/T] ATCATGTCACTCTTATATTAGATTTGGATGTTGATAAATTTGAAGCAATTAATATTAATAT
706 CaSNP2648 AGGGTGAGGGTAGGCCCTTCCTTTTCCAAAATTCGGAAGTTGGGGCTAACAAATTAACCT [T/C] GGCATTCAGCAATGATATATAGTGGAACTGCATATATTTTACCAATAAGGA ACTCATGGA
707 CaSNP2649 TGTAACCCAGTTTGATAGTTGTTTATGATTTCTCAAGCAGTATGTGGTTTTCAAGTTGTA [T/C] TGAGAACACTTTACTTGTATGGCAAGGTATAGTTGTCTTCAACAATCTATGGTTTTTAGG
708 CaSNP2650 TGCTGAAATTATAGAGTACCTTAGAGCAACTTATACTCTTTAGTGTATGCCTTTGCATGTC [A/G] CAAACACTATCATCTCTTGTGAGATTTAAATTCGTTCTTCTTACACATGTAATCAACT
709 CaSNP2651 ATTTGAAGTATCGGATGAAGAACATGACATAAATTCCTTTTCTAAAAGTACATTTGTATT [A/G] GGTGCTCTGGTACGGGAAAAACC ACTGTCTTGACCATGAAGTTATTTCAAAGGAGAAAA
710 CaSNP2652 AACTTTCAATTTAGTCATAATCCAAATAGGATAATCTAATATTTAATACATCTCCAATA [T/G] ACTTTCTAGACTCAAAGTAGCTGCAAATTACATATAAAAAACCAATTAATAGCGAAGCGA
711 CaSNP2653 CGGGGATAGTAACGTTATATTTCTCTTCGGATGTAGTGCTTCAAGCAGCATGACAAGGATG [A/G] TTAACGATGATTTTGTCTAGAACGATACATAGAAATGACATGATCATGGTATAAAGTTTGC
712 CaSNP2655 ATAAAAAATTCACCTTGATGCGATCATATGCCCTTTGACATATCCAAC TTTAAGTCATCAC [A/C] CTAAAATCTCAAAGATTGTGATTTGGAGAGTTTCCCGAAACATCAA AATTAGACGAGTGT
713 CaSNP2656 GAATGAGGCTTTGATCAAGTTTATAAATAAATTTAGAAATGAATAGAAAGAATTCAACT [A/T] TGATTTGTTAGTCAATACCAAAGTAGTTTTAGTTTAAAGCTTCTCTGTGGTGTCTGCTC
714 CaSNP2657 TGACTGCTTCACATACACCTTTTACCTAGTGACCCATTGAGGAAGGCTGATTTAACATC [T/C] AGTTGATGCATAGACCAGACTTTGTAGCTAGCCATTGAGATTATCATCTTACTGTTTCA
715 CaSNP2658 GTCCAATTGCACTACGCTACAGCGTTGAGGCTATATCTGCTATTTGACACCATTGATGT [A/G] TAATAGACAAAAATAAATAATATAAAGGATACTCCCCGACAATTGCTCCAGCTCTTGAT
716 CaSNP2659 TTCTTTCTCACGAACTCTTCGAATGGAACCTGATATTATCTGTTTACAGGTAACAACCA [A/G] CAACGTTTCACTTTTACCATTCCAATTAATACTAACTCTTTATATATAAATTTCAATTA

717 CaSNP2660 TGGATTTCAAATAAACCTGCTTGTGACACTTACAACATGAGAAATGTCTGGCCTTGAGCA [T/G] ACCATAGCATACATGATGCTCCCTATGACACTTGCATATGGGATAGTCTTCATGTTTTTT
718 CaSNP2661 AACCGCAGCATACAAATACAAGATTTGTCATCCAGTTTCAATTGAGTTGCATACCTGATA [A/G] ATAGTATACAATGATGTACGCCGTATGACAGATTCCTTTAAAACATTTAGCAACATATGT
719 CaSNP2662 AAGACAAGTAACTAATTAAGTACACGTTGCCCTCTACTGGTTTTAGAGTTTGTATATGTA [A/T] TGAGTATCAATATTGACCAAGACTTGGTCTTGTGTAGTCCAACCTTTGAAAAATTACTATA
720 CaSNP2663 ATATCGTGTATTATGCTAAACACATGGAAAGACAAGAAATCTTTAAGAACTAACAAACCA [A/T] GACCTAACCCAGATTTGGGTACCAAGGATAAAAATGTTTTATGTTGTAGATGTTCTAAGGA
721 CaSNP2664 TTTCAAACCTTAAGGTTTACAATATACAATTTGTATTTAAATACTACGTCCCATATTACAC [T/G] TATTGGTAACTATGAGTCATACCCAACATTATAATTTATTTATGCACGTGTAGTTATTTA
722 CaSNP2665 ATATTATGAGTTATTTTATCGATGTGCAAAACACTCGCCCTCTAACTAAAACCTTACAATAA [T/C] GATGTACAGTATGTAACAATGTGTTACAATAGACATAATACTATTTTTGTACTGATACAA
723 CaSNP2667 TCTAGATGATTCTGCAGGTATTACTTAGGATCTTTCTAGTAATAATTTCTTTGATAGACC [A/G] ATTTGGATTGTGGATTCGGGTGCCACTAATGATATTTGCGACTCTATGTACTTGTGATC
724 CaSNP2668 TCTACATAGATATATCATTGTAACCTCTATACTAAGTAACCTATATTTTATCTTAGGTACA [C/G] AGTGTTCGGTTCAAATGTGAGTTGTTAGTCATACATTGACTATGAACAAATTAATCTTA
725 CaSNP2669 TCCTACTTGAATTATATATGATATAAAATGTACTATGATGTTGTGATTGATTATGTTGT [C/G] TGTATCTTCAAATGAATGTTATATGATATATGTTATAATGTTGTGTTGACATGTT
726 CaSNP2670 TCTCAACAACCTCATAATTTGGGATGAAATGAGCTCACTTATGAAGAACTAGCTTAACG [A/G] CTGAAACAATTGAAAGCAGAGCACTCAAATAGTTTATTGAGATTATTTCTACCTAAAAATA
727 CaSNP2671 AAGGCAGTTTAGATGGAAGACTGCTGAACAAATAGCGCCAGGAGGTGATGATACATGATA [C/G] ATAAAAAAGTCATAATGTGAATAATCAACAATAGGTCGACGAGGAATACTAACTCTAAGA
728 CaSNP2672 TTGCCTCTGAAGCTTATGTTCCACTCGCCCCGAAGACTTCAACTTATTTCCAAAGATGATGC [T/C] TCTAATACGCAACATGCTCTAAAGATGTACCAAGGTGACGTTGCCCATGGCCTAATTTCT
729 CaSNP2673 ATTAATTGATCATGATATGATAAACCACCATATGTTTGAACCTCATGAGTGGAGTTTGTGA [T/C] ACATATATACTCACCAAATTTTGTAATAATTAGTCATACATCTACATTACGTGTATGAT
730 CaSNP2674 TAACAAAAGATGAAATAAAGTCAAATTTGCTTTTCATATAGGCTATAAGTTGTTTTCATAAA [T/C] TGTTCATTAAGCTCTCTCAAACAGTTTTTGCACGTATTTATGCCGGTAGATAAGTTTAAA
731 CaSNP2675 TCACTATGAAGAGGCTTACTGGTACCAACAAGCCACAACAAGTGGATCACTCTTGGTAA [T/C] CGGAATTGTAATGGTTTGATATGTCAACTTTGAAGCGGAAAGACGCAATAGGATTGTC
732 CaSNP2676 ATCACTGCCAACTTAAAAAGCTGATTTAGCCACTTAGGGTACATAACACAAGTAAATGAA [A/G] AGTAACTAGTTGTATGGAAATTACCTGCCGCCCTATATCTGTACGGATATGTCCTTAAAG
733 CaSNP2677 GCTATACTGAAAACATAGCCACTAGTTGCTTTGGAGTCATCTGATAGGGTGTACAATCA [A/G] CATCACTGTACCTGATAGCGCTTCAACAAGTGTACTGAATCGTAACAATAATAATTA
734 CaSNP2678 GCATAATAC TAGTAAGAAGAACACGCAAACAATCATAATATAACTGTATCATTACACAAA [T/C] ATTGCTCAAGAAAAATATGACGTTAATAAGTCAAATCACTCAAGGAAGATCAATACCTT
735 CaSNP2679 CACATCAAGTACTCCATTTGGATCCACAGTGTGCTTTTAGACAATGAGTTGAACAATTT [A/T] GCAACAACCTTGTCACTCCCAAGAGCATTGAATATGATCTCGCTTCGGTTGAGAAGTGCA
736 CaSNP2680 GATGTCTCAACTCTTTTCTGAGATTTCGATTCTTTTACAAAGAAATCAGAAGTAATCACACA [A/G] TATGATGTAAGATTTAGAACTGCTTCTTCTTTGTAGAAATTGAGAACTTCAAGTATGTG
737 CaSNP2681 TAAGAAGGTGAATGTGAAGGGTTATTGAATTTTGTGTTATGATGAAAGATTATTAAGAT [A/G] TGATGACATTGAAACTTGAGAGAAAAACAAGGTGCGAGAGAATTGGGGCGGGATAGGAAGA
738 CaSNP2682 TGCAAGTGTGTGATGGAATTGCTGCTCCAAAACCCATCATTACATCAATGAGTTCAC [T/C] ACCATTTGCATTTGTTTACAGTAGTTATTGTACCTTCTGTCCACCTACATATATAATAAT
739 CaSNP2683 ATGTATGCCCATTTCTCAACATCTTTGATGGATAAGGATTGTTGTAATAAATAAGATTAG [C/G] ACTACAGTATGATTTCAAACAATAACCCATTTTATCATATACGAAACTCTGCTTCATGCC
740 CaSNP2684 ACCCCCCATTAAGAGACCCAAAGGAACAAATATGCATCAATAGGCTTTTTTTCAGGATGTTG [T/C] GGTCTAGATCGGTGAAAAAGGAATAAACCAATGTTTGTATCTTTTAGAGGCAGATGGAT
741 CaSNP2685 CAGAACTATTTCTAGCAAAGGAACCCCTGCCCTGTTTAGATCAACCTGTGAAACAATAC [T/C] ATCAAATTTAACATATTTGTGTCTAGTAAAGGTTATCAAGCCTTTGGCGATAATTTATTC
742 CaSNP2687 GCGACAGTGCATGCCCGCAAGTACGACCTATCTGCTTCGATTGATGTGGTAGCCATATC [C/G] CCGATTATGAAGGTTCCCCCAGGACACAACATGATGTCAAGGAAGTCTTTGCCAACAA
743 CaSNP2688 ATATGTGCAAGACATGTGTGGAAGTTTATGATGGGTATAAGAAAGAAATGTTTCAATTTGA [T/G] GGCTATGTTGTACGACACAATTAATGATTTTCCAGTATATGGTAATTTATCAAGATATAT
744 CaSNP2689 ATCCAGTGTGAGCGCTCGACCTTCTGATGCCGGCAGGCATCTCAATATCGAAGAAGATG [T/C] TTTCTCAAGACATGCTTTGCAAGACCTAGAGTCTAAATTCCTCCAACAATCAGCCAGAAC
745 CaSNP2690 AAACCTGAAATTTTTTTGAAAACCTAAAGATATAGTATGAGTCTTGTGCAATTGCGGCCAT [A/G] ACGGATATTGGTGGCGGAAATTGAGCATACCGCCATACAAAGTTCATGGCATGGCGGGTT
746 CaSNP2691 TGAATGAATATAGTGTAAATGAACACGAATGAAGAAAAATAAATCACAAGAATTTCAAT [A/T] CAATCTAAAATAACAACAGTAAAATCAAATGTAATTTAAAATTTAAAACCGATTTTGA

747 CaSNP2692 CCATCATTTAAACACGAACCTCATTGGCAATTGCTGCTGATACATGCTTGTGAAATTTTC [A/G] TTGGCTATGGAGAACCCAAGCATCCAACACTTATCATGCGCAAGACCTATGATGGACTA
748 CaSNP2693 TTTTGATGTCAAAGTCAAACCCAGAAAATTACAACCATATGTGAACAACATATTGAGCCA [T/C] CCATCTGTATACATGAAGTGCACAACATAAACTGTTTTAATTACTATGAAGCACATTTA
749 CaSNP2694 TGCAACACATAACGTGCATGACATAACATTTCAACATCAACAAATCATTTGCTGGCAACA [A/C] TCAATTCACATTTACGGCTAAGCGTGCTAAGACATATTAACGTTTCATCATCAAAAGATCA
750 CaSNP2695 CTTTTCTCTAAAATCCCACAACCTCCAACATTTAACTTTCCAATCAGCTTTTTGTGCGAGTA [T/C] TTTCTACTAGTGCAGTTTTCAAGGACAGGCTCAAATGGTTTTGGTGGAAATTTTTGGTTCTA
751 CaSNP2696 GTAGGAAAACGGGGGAATAGGATGGTGTGCTTCTAACATGGCCAAAACCCTTTCACA [A/T] TTGGATCTTCACTTTATTTAATGACGCTTTGGGATAGGCATAAACACTCTTCTAATGGCA
752 CaSNP2697 TATTATTCAGTGCCATTTATCTCTCAAATTTAAATTTGAACAAACAGTAAACCATGATCAA [A/G] TAATACCTTTGCTAGCTTGTCTCCACCATTTCATCGATTTGCTTTCCTTTTTGAAGCTGTT
753 CaSNP2698 GTTTTTGTAACCTACCATCTTTAACTAGCTAGTATCTTAATCATGGTAAAAATTTAGTTTCT [T/G] AATGTGTATTTTCTTTGGTATAGATGGTTATTGATTTACAGCTAAATGGTGTGACCT
754 CaSNP2699 GAGGTTATGTACGGAACACGGTGTAGGCTTTGATAGGATGGATGCATACAATATAGTCA [T/G] TCTAGAGTTGATTTAAGATGCCATTGAAAAATTTAAATTTGATTTCGAGATCACTTAGTGAC
755 CaSNP2700 GGATGTAGATAGGATTTGTTCCCTCTACATAACAAGATTATGTCTTTGGCCCTATCGATA [A/G] AGTTAGACCGTGAAATGCATGGTCATGCTAGAAATGACTCAATATGTGATATTGGGTCTA
756 CaSNP2701 ATCTCTGATCCCCTAGTTGACCCGTTAAATTTATTTGCCATCGCATAAACCTCTCGAGAT [T/C] ATCAACACCTTATTAACAACAAACACGCACAGAGCAAAGGGATGAGTTGACAGAAGAGAA
757 CaSNP2702 AAGGTTGATATGGAGCTTCGAGTCGCTGCTTGTGTCACAATGCTAAACAATCCTATGG [C/G] ATGATCAAAGTCCTTGAAGCCATAAATGCTAGCAGAGTTTACCTGTACATGTCTCTGCA
758 CaSNP2703 CAATATTCAGCATAGCAATATGCATTCATTTTAAATCAACAAAAGGTATGTATGCTGAA [T/G] TTTTGAATCCTTTTATAACATTATGCAATTTGAACTGATTTGTCTCTTATAATATTCTG
759 CaSNP2704 CTATTTAATATTTATAACAACGAGCAATGTCTAACAACACGTCACCTGCTATCCAAATGAC [A/G] ATAATATCTTGTGATTTGACATAACCTTTTTCTTTTATATCTATATTGAACACAAGGCT
760 CaSNP2705 ACTTTCTTCTGCTTGGATTTCAAAGCCAAGGTTAGTTGTTTCTTCTTTGGGCTCATTCTCT [A/G] CAAGTTCAATTTTCATGTGATTTGAGAGAGTTGATTTATTAGTCCATCTTAAAGATATTCA
761 CaSNP2706 GATACAATGGTGAGTGAATGGAATAAAGTGAACGCGTTGGAAAGGATGGCCTGCAA [A/G] GGACAGGTGTTAGCAGATTTGAAGGCTAACGTCGACTGTGTTACTACAGTATTACCATAC
762 CaSNP2707 TGTTCTGGTACTTATCCCGTAAATACCAGGTTCAACTCCCACATACAATAAAAACTCA [T/C] TAATTTGTAATAAGGATAAGAGGGGCGATAAGATCGTAATAACAGTGTCCGGTCTCGGG
763 CaSNP2708 GATCTAATAGAGCATCTCCGTTCAATACTAACTACCCACACATTTGTATCCAAAGGACAA [T/C] TGTTCTACTTAAATTTGCTTTAAGAGACTCCAACCTCTTCTGAACTAAAAGGGTATCA
764 CaSNP2709 ACAATTTTACTTCAAGATGATGTAAGTGGCCTTCAAGTATCAAGGACGACAATGGATT [T/G] CTGTTTCAGGCTCTTCTCATGCTTTTGTTCATCAACGTAGGTTACCAGTTGCGAGTACACT
765 CaSNP2710 TGCTCAGCAACAAATTTACACCATACTGAACAAGAAAATCAAACAAGACTTATGTAATA [A/C] TCCAACCTATTGCTGATCACAGCAGTCAATAATACAAAACCCGAGTTCATAATTCAGGCC
766 CaSNP2711 TCAGTAATATATTTAGTTTACATCCATTACCATGAAAGTAGTAGTATTCTGATATCC [A/G] ACTATATATGTTGACCCCTATGGTCATGGAGAAAATTTGAGAAGGACTTAGGTTCAACTTA
767 CaSNP2712 TCAGAAGGAAATGAATGTAGCTAACATCTAGCTCTATCCCTTAATGAAAAAGGAAAAAGT [C/G] TTAGTCTAATGGCGTCACTAGTCACTCCATTCATTTTCAAATTTACACAATACTCTAAAA
768 CaSNP2713 TCTTCATCAATAGACTAACCGTCATAATGAAGTTAGAGTATGTATCTGCCAATTAGAAT [T/C] GTGTTTGCATGCACCTTGTCTTCATCAGATGATTCATCAAAGTCTCCCAATTAGTCATA
769 CaSNP2714 CCAAACAGGCCTGTGGTTCTTATGATCTAATCCTACTAGTCCAATTTGCGCTTTCTTTT [A/T] GACTTATATTTTGCATCGTGGATTTGCCATCTGGGTTTTTGTATTTGGGCTGTCACTAG
770 CaSNP2715 CCTCAGTGATAAACATTTACCAAGTCGAGTAGCAAGTCGAGTAGCAAGATCTTAAAGTCT [T/C] TTATAAAAAAGATGAACATTTACCAAGTCGAGTAGCAAACTACAAGGATACAAAAGAATG
771 CaSNP2716 CATTTGTTTTCACTTTAAAAATACAATTTGAGTTCAATTTGAAGCTATAAGTTCTTGCAA [T/C] ACATATATAAATATTTATGTCATGAGATAAGTTTCGTATAAGTATTTAATGCTTTAGTTTT
772 CaSNP2717 TCACTTGCTTGTAAAAATTTCAAAGGTAGACAAAAGAGTATAACTGCGTTTAGCAGAG [A/G] CAACTGCAACAGAACATATCATGTATGTCTAGAGTCATTAGTGAAGTAGTAATATCAATC
773 CaSNP2718 CTAGAAGATTCTTGTCTGGTTATATGCTCCAGGTATTATTGCTTGTGTTGATTACCAAC [T/C] ATAACCTGTTTTTCATCATCTATAATGCCATATGGTTTCTGTTTAAATTTGTTGCTTTTCAT
774 CaSNP2719 GATGTGAAACAAATAAAATTTGCAATCAGTATTATTTGAGATACATATGATTACATACAAT [A/G] AATCATCTAGTTTAGGTAGGATAGCGTTTTGTTTCTTAAACATCACAATAGACTGATTT
775 CaSNP2720 CTAACATGAAATGCATGAGCATAACCTAACACTTTTACATCAATTTATATGTAATGCC [T/G] CTATCCAAATCAATTAGGGATGGACTTTTCTTTAGATTTTTCATACCTTATTTGGTTCCCTA
776 CaSNP2721 TTCAAGTCCGCTCTAAAGTTTATGTTCTACTGACTTTGATGACTACGACTAGTTCCATA [T/G] TGTTGCTCTGATACACAACACACTCTAAAGTTGCTCTGACTTTGATCAGGAAACAAATG

777 CaSNP2722 CATATAATAAATTAATTACCAGCATGAATTGGATCAGGAACAAAGTCATGACCAAGTGTG [T/C] GCATTTTCATCAAAGGAGTCATCCCTGCTGTATCACAAAATCATAAGCATATATCCCTT
778 CaSNP2723 CATCAAAATAAGTCAATCAAAACATATATTTTTGTGTATTTGAGAACATTAGAAATAGAAG [T/G] ACATACACTCTTATCTTCTGTGTAGATGCGGGAGATCCGCCGTTTTGTCATACCATTTTCT
779 CaSNP2724 GATATACCTTAACCTAGCCCTAGTTTACACCTCAAGTGTATATTAACATTGAACGTTAGA [C/G] TGTTTGTATATATTTGTAGGTCTTCGCCACCATGGATTTTGACCAAACACAACCACCCA
780 CaSNP2725 TATACGGATGGAATACGGTTTGAATACGGTGTAGAGTAAGTTGTACGAGATGATGATTGC [A/G] AAGGGAAGAAGAAAAGTTTGAGGAGTGGTGGTGGTGGTTTTTAAATGTGTTTGAGAG
781 CaSNP2726 GGACATTATTGGTGTCTATGCATCGTATCTGTTGTCCACTTCTTTGCTTCATACCATTAT [T/G] CCTATCTAAAGATACATTCTCCATTATCCTATAGCATAAGTGTAGAACCAATTTTCTCC
782 CaSNP2727 TTATGATCATATGATTCTGATGCCAACCACTTGGTTCCTTAAGTGGAGATGTTTCAAATT [A/T] TGATTGTTCCATGTGTACATGAATGTATGATTTTTTATTAATTGGATGGTTAGAAATTA
783 CaSNP2728 GGAAGAAATGGTTAATGCTGGTTTGGATGCTAGTTTACTTGTATGATGATGCTTTCAAATT [C/G] GAAGCAGCACAAGATAGATGCATATTAAGGCTTATAGCATCCTGCTGCAACAGTGAGTTC
784 CaSNP2729 TTTCCATAAAGTGGAGTCATACGTGTTATGTTAGTTGGTAAGATGATATATTGTACTCAA [T/C] TAGATTGATTAGTCTTTCGATAAAAATATCATATTTACACACAAATGTTACTCATTAGCA
785 CaSNP2730 TCAACATGGAGAGGACTTGGGCGCATAAGATGTTGCTTGGTTGCAGAAGACAAGCCTTTA [A/G] CAGGAGACAAGGATTTATGAAGAAGCAAATACATTTTATGAAGAAAGAATGACAATTATG
786 CaSNP2731 ATGACAAATTCATAAGCTTTAAGATAGGTCGATAATATCCCCATAACAATGGACTATGAC [A/G] TATTCTAAATGTTCGACAATGGAGACACATGACAACAAACATTGTCGAGTCAATCAACACA
787 CaSNP2732 TTCTTATCATCCTCAATTGAATCTCATACCATTCAAGAAGTTTTTCTATTTCTACTTTT [A/G] GTCCATCATTTTCTCCTTGGCAGGAATCAGTTTCAGTTACATATTTCAACTTCAACATTC
788 CaSNP2733 ATCTGAAAGAAATAAAAATAGAAATACAAGCACATTTCAAGTAGCACACACAAGACGCGA [T/C] GTACTTTTTCATCAAGATCAAGAATGACGATATTAAGCTTCTTTACTTTTATCAATTTCTA
789 CaSNP2734 CAATTCAGTTCTTATTACATCATATTTCTAGTAATGTAGAGGCACATTCTTATAGAATTC [T/C] TGCAACTACAAATAATCCAAGATTTTACAAAATCTCATGAAATAATTGGAAAACATACTT
790 CaSNP2735 CACTACATGAAGAAGCACTTGGCATTACATTTGATGATTTTAGATCATAACGTGTAATGG [T/C] GTGGTGAAGGGGAATGATGGAGGGTAAGGGGACACCCTGTCTCTTATGAATTGGTTAGA
791 CaSNP2736 TATACCTTATTTTTTATTGGATGTCATTTAGGAAAACTTCTTAACTTTTTCAGACAGTAA [C/G] GTAGGCAAGTTGATATTTGTGCAACTGCAATATAATAATAAAGCAATAATAGAAGAGGT
792 CaSNP2737 TTGATTCAGTCACAATTCGTGTCAATGGGGTCGAATAAACTGCTTAATTTTAAAACCTTG [T/G] TTGCTAGCTACCTTAATTTAAAATATACTTCTTAATTCGTGCTTTGTTATTATTAGATGA
793 CaSNP2738 CTTGCAAAATCGAATTTATCCCTTCATATAATCGGAATCAATCACTAGTCTCTGTAGCCT [A/G] TGTCAACAGCAATGGAAGTGGCAACAGCAAGCATGGTGGAGGCTGCCATTATCTAGTTAAT
794 CaSNP2739 TAGTGATGCATCATATGTTTCTACTGCCAAATCACATTACACCTTAACTCTTCAATCAA [T/C] CGTTGAAGGTACACATCAATATTTATCCCTAGCGTTTGTGGTCCAGGTATTAATAAAGAC
795 CaSNP2740 ATTCATTTTCAATGCTTTAATTAATTTATAAATTTTATATTTTGAAGTTGAGTTATATGT [A/T] TTGTAATGCACATGCAGGATGGGAACAGGAACAGGACCTTGAGCTATATCCGAGGACG
796 CaSNP2741 TTACAACACAATGAGATAATAGCATCATTTGAAAAGAACATCATCCAAAAGGTGCATCGA [T/C] ATAGTAACAAATTATACACCAATTTTTGTGGTGTGTATCCAAAATGCAATAGATCTCG
797 CaSNP2742 AACATAATAGCATTTGACAACAAGGGATGTGAGTTCAATCACTTTACAAATAAGATTTT [C/G] CCCCCAAGTATCACACATCTTACTCTTCACTCATTTCTAGCTATTTCCCTCTATCCAA
798 CaSNP2743 GCACATGGATAATATTCATAAAAATATAACTGAAGACAAATTCCTTGTATCAATAAACTT [A/G] ACTGAACTATACTCTTATCATGGAATCCAAACTCACAACTGCAAGTAACTGCCAAAATGAAAACA
799 CaSNP2744 TTTTATTACAAACAATTCATTTTCAGAGTAACTAAGGAGATCCATGAAATGTAAGATGA [T/G] TTTTTGTTTAAATGTTTGTATAGAGACATGACATAATACATAGTGTGTTGTGACTCCAA
800 CaSNP2745 AACCTTGAAATTATACAACCTTGATGTGAAAACCTGCATTCCTTAATGGTGTATTTGGAGAAA [T/G] AGATCTATATGGAGCAACTAGAGGTTTTCGAAGTTAAAGGTAATAACAATTTGTGTGTA
801 CaSNP2746 CTTATTGAGAAGGTAACCTTGAGACTTATCTAGCAAATGGTTTGTGCAAGACATTTTCTAC [C/G] TGATAAAATGTGAAATTTATTTATTTGTGACACATGCAGAAAACCTGGTGGAAATTTGCT
802 CaSNP2747 TACATAAAACATTTGTTAATTCATATGTCACCCAACCTTATTTATTTGGCTTTTCTCCGCT [C/G] ATATTATATTACACGGTTTTCCATTATAATTAGCTTTGATTCATTAACCAATATAACAAT
803 CaSNP2748 TAATCGCATTATTTTTTAACCAACTAGATCTTCAAGTATATGTTACAAGGAATTAGAGA [A/G] TTGTCAATATACATATGAGTGCATGACTACCACCAAACTCAATGTGGTTGCATCTTATCT
804 CaSNP2749 CATATAAATTTTGTTCATTATATCAAGAGGCAAAATATCATTCTGCTCTAGTACTACTTG [T/C] TGTTGATTAATTACTAAAGATAAATAATTTTCCATTACAATATACATAAAAACCTATGA
805 CaSNP2750 CCTTCACCATTTCACTTGTCTTTATTACAAAGTTTGGAGCTATTTATTAATTTAGACAATA [T/C] CTAGCTTTTTGAACTTATACTCATATTTCATCTTTTGAATCTAACAAATGGTTGTAGAT
806 CaSNP2751 TAATATAAATATGCTTTAAACAAAATTACTCAAGTGTGGGTTAGTGTGATTAGTGTATA [T/C] TGAAAGTAAAGGAGTAAGTTAGAGAGAATCACAACCTCGACCTAATATAACCTGTATTATC

807 CaSNP2752 ATTGAATGTTAATACCCCTTTTGAACAAAGTCCCTAATGAAGTAGTGTTGATTCTCC [A/G] TGTTTAGCCCTAGAATGAAGTATAAGGTTTTTGGCTAGGAAATTGACATAATTGTTATCT
808 CaSNP2753 TTGATTAGTATCGGTAAGTAATTGGTTTGAATTTGGCTCTTCTAAAGAGAGAATTTGATA [T/C] AATGAATGAATCAATGATTGATATTATAACTATCCATGATTGGTAATGCGTGTGCACATA
809 CaSNP2754 TTGTTTTATTAGATTGCTTAGTATATCTTTCGACGGCTGACCTCAAAAGGCATGAACG [T/C] GAATATAATCTTGCCGAGAAAGAACTGATGACCTTCGGAAACAGGTAATTTGGAGTGT
810 CaSNP2755 GTATTTGTGTTGGGATGCATCTGCAGGAAAGACTCCAACAAGTATTAATTAAT [T/C] AGCAAACCAAGGTTACCTCACGCAACTGTAGCAGCTACTCATTAGGGAAGTCATCTTG
811 CaSNP2756 GTTGAATGTGTGGTATTTATATTATTGTGATATTGGATGTCAAATGAATTTGGTGCATAT [A/G] TTTGATCAAACGAGTTTATGTGAGGTGATAATAAAATAAGGATGCATTGTATGATATAAG
812 CaSNP2758 TCCCCATCTTGACACACTTGGCCTGGTAAATCTTTTATGCAATAACTCTTCAATTTGACC [T/C] TTGAGCTCATTCAATTTTTAATGGCGACATTCGATACGACGCAATCGAAATAGGCTGATT
813 CaSNP2759 ATTCTAAAGATTATGGTTCCCCAATGAAACAATTGACACCAACACTTTGAAGGGGATCGA [T/G] AAAAAATGGAAGATATACCTCGACCTCGAGTGAAGCTTGAAGCCAAGGCCTAGAGGCAA
814 CaSNP2760 CCTCTTATCACTTAACCCGAAGTAGTTTTAAATAAATTAGCAAAAAGAATCAAACCTAGG [A/G] TGGATAAATCAATCCTCATCTCATGTTTGCACCTTCATAAGACCCACTCATATGTGTGT
815 CaSNP2761 CTTGATAAATAGCTCTTCATCAGTTATTGCTCCCATTCCATTGCTCTTTCAAGTGCAGT [A/G] TGTCCACCAGCATCTTAACTGACGGTTTTGCGCCCTGATAAATCGGCATGTTAGTTTA
816 CaSNP2762 ATTTGAGACCAACAAATACATGGGTATTTTGGATTATAACTGAGGCCAAGGAGAAGCA [T/C] TTATCCTACATGTTGTTATAAATACAGAGTGGGATGATTTAGAAACATAGAAATCACA
817 CaSNP2763 TAATGATTAACATATGCTTAAATAGTAAACATTTACTACGTGGGTGTCCATAACATTCCT [A/C] TTACGATATATATCAATTACCTACTTTTTTTAGATGATTGACTTGTTCGGCTTAGCAATA
818 CaSNP2764 TTCACCACATAGAAATCTTATTATAATCTTCTGTCTTTCTCTCTTTCTCTTTGTT [A/C] ACTTTAGCAAATTCAGACTTCATCTCAAACAATCCCATTTTTCATCTTCTCAACAAAC
819 CaSNP2765 GGGTGATCTAGCATTGGGAAAACAAGCCACAATTACATTTGTGATAATAATATTATACT [A/G] AGTTTGACACTTTGCAACTCTCTAATAGACATGTATGCAAAATGCGGTGCACTTCAGACT
820 CaSNP2766 GATTCATATTTGTGACATCTGAGAACTTTTCAAAGTGCATGAATGATATATGCTGACCA [T/G] ATGGTAGTTGTGGTGAAGATCATTTTGTGATGTTACCCTTAAATGGGTGTACCATTGT
821 CaSNP2768 TAAGTCAATTTCAAGCATGAACCGAACACAACCTCATGACGAGCGCCTTGGGCTTAGG [T/C] AGTCGAATCATCAACAACCTCCCTTATAGTATTGTTCCCTAATCTTGGGTGGAATTTTCAC
822 CaSNP2769 AAAGTTCATCATTACTTAAACCCTCCATCCTCTTTCCACTTCTTGCTTTGTTTGGCACCG [T/G] TGATGCTGCCTCTGGATTTATTGACCCAGCCTGCCTCAATTCCTATCAGTTGTGTCAGT
823 CaSNP2770 TCACATTTTCCTTTAATTTCTTACAACCTTAAATAAATTTGCCCTGTGATACATGTCAA [T/C] TTGCTAAACAAATAAAGTTACCTTATCCTATTAGAAGTACTGCAATTTGACGCTAATATT
824 CaSNP2771 AATAATAACGAATTGTGACATTACTCAGCCACTCCTGTATAATTTAATACCAATGAGTT [A/G] CAAAGAAAATCCCATTTGATTGACCTAACTAAATATGCTTACAGGTCCCTCAGTAGCTCA
825 CaSNP2773 TTGACACATAACAACGCACCACATATGAATGATTGTTTGGCATCTCTCCTTTGAATCAACA [T/C] TTTTCTACTCCTCTGCAATTTACTGAACTATTATTGCAAACTGATCTCCCTTTTCAC
826 CaSNP2774 AAAATTAGAATTAAAACGAAATACAATGCACTAAAAGAAAGTTACCTGTGTCTGGAC [A/G] CATTGGCGGAGTGAAGTAATGGTCTGAAGTGTCAATAGTGTCAAATGCTTAAAGT
827 CaSNP2775 TACAGATTACCGTAGCCTGAAACACCTATTACATCAGCGAGTATCGTTCGCTGGATCAACA [A/G] TGTTGGTTGGCAAATACGAGCCGGATTTGGAGAACAAGGCAGCAGACGCAATGCTTGTGCT
828 CaSNP2776 CTTATCATAGTTTGGACTTAGTCATAGTGTGACTTGAAGTGTGACTAGATAGCCAAC [A/G] GTTTACTAGATTTATCAGACGTAGAATCATTAGGGTGAGCTTGTAAATTAGATTCAACATA
829 CaSNP2777 ATACGTGTAAGACGGGTACAGGTCTCGCAAGTGACGGGTTACGGGTAGGGTTGTTACA [A/G] GTAAGTTTAAAACAAGTAAACCTCAGATCAGATTTGTATCAAACAAATCAACACAAA
830 CaSNP2778 GTTGGAGAGAAACAAAAGCGGTTTGTGATCCCAATATCATACTTGAACCAACCAATGTTT [C/G] AAGACTTATTGAGTCAATCTGAAGAAGAGTTTGGATATGATCATCCCATGGGTGGCCTCA
831 CaSNP2779 CCAAACACATCAAATCTAATATATGAGGCTTTTAGATTAGCTAATAAATCTGATATATGT [A/G] TAAACTATGACTGCAGTTATCTGGAGCCTCCCCTGAACCTGATCAATAAATCATCCCAGA
832 CaSNP2780 TAATCTGTCAATAGCAGAGAAATAAACAAAATCGTGCCGAAAGACCGAATAACAGAACCAC [A/G] CCGAAAACAGAAGAGCATAATCGCGCTGGAGATAGAAGAGTAGAATCGTGTGGAAACGG
833 CaSNP2781 TATATTACTTAACTACTAATCATTCAAATTCCTAGATCTTGCTTTATATATTCCATTTT [A/C] TGTTGAATGATTTTCTGTTTTTGGTCTGTGTGTTAAGTTTTGCAAGATCTGGTTTACA
834 CaSNP2782 CAGAAAAGGTGGGGTTTTACATTGGAACTTGAATAAAGATGTCCATGACGTTCAAC [A/T] TTTATGAATATTTGTTGTGATATTATTTATCTTATCCCTGAAATAAGGAAGCAATGCCA
835 CaSNP2783 TCAGATATCAATAACTGAAATTGAGATGTTAAAGAAATAAAGCACTAGAAAGAGAAGTA [T/C] AAACCTGAGGAATACCTTTGCTAACCCAAAATCTGCAAGTTGACAGATCCACTTGCATGC
836 CaSNP2784 CTAAGATGTTGTTGAAGGTTAAGGATTGAGGCTAGTAAACCTAGTTGTTTATAAGCTT [T/C] GTTAAATATGATTTTAGTCGAGTTTACTTAGTTGATTAAGCTCATTTTCAATTTGTAATT

837 CaSNP2785 TTGAGTACTGTGCTTGTTTTTCTGAATGTTATATGTCTTTTTTATGATGTTGCTCACCG [A/T] TGATTCTGATTTTATTATTTTCATTGTGTGCCTTTTATAGTATTTCAACACCGCGCCATAT
838 CaSNP2786 TGGAGGTGAACCAGGTAAGTTGAGCTTGTAAATGAAGAGTAATTCCTTGGCATGTAATGAA [A/T] GAGCTGTCTGAGTCTGCGAGTAATCTGGCCTGCAATTCCTCGTCACGAGCAGTCCCAAAA
839 CaSNP2787 CAACCGAATGATAGAGGAATGACAACTCTGTAAGGACTGAGCAGTATAAATTGCAAGTCA [T/C] AGAATGATTTACTGCACATAGTAAAACAAATATTATAGAACCCACACATCAATAAAATT
840 CaSNP2788 ATTCTTATGTTTCATAAAAATGTATGTGATATTTAACAACGATGAATTTTCTATATAGGTT [A/G] AACGAGCACGTGAAGTGTATAAGATGATACAACAATATAATATAAAGGGATCTTCAGAAG
841 CaSNP2789 CTTTGGATCGTCCAAATGTTTTTCTGCAAACGGTCAAACGCATCCCAATCTTGCAAGTCA [T/C] GGGCTAAAATGCTGGATTAGAGCTTCCATTGCAGCAGGTTACCATAAGTCAAGTAAGGC
842 CaSNP2790 CTCTGAAAGGCCGTACAAATGCTCTCATAGTAGTCTACCACTCTCAATCTATAATGTTT [A/G] CCACCCGAGGACTTCCAAAGTTTCGAAACCTTTCAAACATATGGATGTTTCATATTTTTG
843 CaSNP2791 TCACTAGGATTCAACTCATTTTTTAGTCGACCTAACCCATAATAAGTAATAACCTAGCTT [A/C] TTGACACTAAACCTAATGGAGGCATGGCTTGGATGTCCATACAAATCAATAAGTAAACC
844 CaSNP2792 ATCATATCAAAAATGAGATTATGAATGGAATATCATGTTATATAGAGCAAAATTATGTAA [T/C] ATATGGACAAAACAGAAAGCAGTGGCCAAAAGTAAAGTTGTGCATCGTAGATAGTGGTGA
845 CaSNP2793 TGAGTTCACCTCAACACATACCATGCAAAAATAGTGTACAACCTAAAATACCACTATGCTTT [A/C] TATATTATTTAGCCGCCATATAATTACAATCTACAAAATAAAGGTAATATAAAAAACATTA
846 CaSNP2795 CAGTGTGTCAATTGGAGATTGCAGAAAATAACAATTTTATCAAATTCCTACTACACAACA [A/G] TGCTATAACACCGATATAGCCACTATTTGACAATATTTTATACTAAAATAGCGTATGGCGA
847 CaSNP2796 TTATTGAAGATGACAAAACACATGTCAGCACTCGGATCGCAGGAACAATGTAAGTTATTG [C/G] TATGTTGGAGTAAAGCATCACTACTTGTGTTTTGAAAAAGAAAACATAAAGCTACAT
848 CaSNP2798 GGTAAGAGATTACATGATGGTTGAACATCTTCTTGGTAGTTGGTACACCTGAACCCCTCT [A/T] AATTTGCCCAACAATTTATGTACCTTAATTTGAAAATATATTTGCATAAGTACAGGTTGTTG
849 CaSNP2799 TAATAGACTGTTTAACTTCATCCATATGAATGTGGATGATCATGCAAAATTTTCTTCATTA [T/C] GGGGGTTGTTCTAGTAGTGGCTACTGGCTACTAACGAGTGAAGTATGTTCAAACGCGCAG
850 CaSNP2800 CTACTCGATAAGAATGAAAATAATGATTAATAATTTGTATAAAGTATCATTGTAATCAAAC [A/G] TAGAAAGTTGACTGGGATCTCTGTGATACTCTGTTTCGCTGGGAGACAGAGAGAGTACA
851 CaSNP2801 TGTTAATGCTATGAATCATTCTCTTTGCAATCTCAACCTTCACATTTTATACATCTTTC [A/T] CACCTCCATAATCAACAACAAAATGTAGTCTCAACTGGCCTTCGCTTATCATTGATGAT
852 CaSNP2803 ACAATAACAGAGTATATATATACAAATATCGTATTATAACAACACGACTGACATGTCAA [A/G] CACCCTAATGCAATGCTTATATGTCAATGCACATGATTTGGAATTTCCAAACCCCTCATA
853 CaSNP2804 TACATAGTACATTATGGTTCCCTCAAAGGTGCTCCAATGTTTGTGTTTTCTCTACAGAGTGG [A/G] TGCAACATAATCTATGTTTTTCCAAAATGACTAAAGGTAGTTATTTCAGAAATTTATTG
854 CaSNP2805 ACAGCCATATCCGAACCCACCAACTGTCCAAGGAAAGCTGCCTGCAGAATAGCAAAGAC [A/G] ATATATCAGCAAGACAGAATGCGCAAAGACTAAAACATGGAACATATAGATTGCATGA
855 CaSNP2806 AAAGTGCATACCTGTAATCGCGTAACTTTTCCCCGCAAGATTCTTAGGTAACAAAACACA [T/C] GGTAATATCAAAGTCTGTTCAACAAGGTTGATGTTGATTAATAAAAATGCTATGGTGATTA
856 CaSNP2807 TGCAATCAGTGAAGAACAGGAAAAATGGAAAATATATATGAACAAATACATATAAGAGA [A/G] AATTAGAGTGGCACAATTGAGGAGTAGATACATGCCAATGGTGGTTTTGTTTCAGTAAGGA
857 CaSNP2808 CTCTCTGTAAGGAGCATGATTCAACTCTACCTGACCATTGTTTACAAACCCCTTTTCCAC [A/G] TGGGTTTGCAATTGCTGGATCATCTTCCCTCCACAAATGTTTTAACACAGTCTTTTCTA
858 CaSNP2809 CAGCTGTTACATGCATCCATTGAATATCAAGTATCGCCATTATCATCCCTGCTCATGTG [A/G] ATGAATGCACAGTGGCATCATATTCATACATTTGGCTATGTTATACTAATCAGACATGCA
859 CaSNP2810 TTGCCGAATTCTGATGTGGGCTGATTTAGAAGATTCAAATCACACCTTCTAATATCAT [T/C] TTCCTTAGTCATATTTGAAAAGGAGGACTTTGATACTGGAGTTTCAGGTTTCTCATTGGA
860 CaSNP2811 ATTAATTAACCTTGTGATCCAATCCTATTTAAAAGAGGAGGAATACTCCAAATTAAG [T/C] ACAATCATATAAAAAGAGGCAGAACTATGATGTCTTTCCAGAAACATTTCTTCAAGTTGC
861 CaSNP2812 AAGTCTGAATTGTTAACCAAGATGGCTGTTTATGACAATAATAATTCACAGCTTTTTGAT [A/G] TAGGCAACACAACACTACATTGAGTTTTTCTTCATATGCTGGCATTCTAGACATCTTTTTG
862 CaSNP2813 GATTAATCCCGTAAGTATTTACTAGACACTTTTTCTACTTTGGAGCATACATGCCATAAT [A/G] GACCATGGTTTCACACTAACAGACTCAACTTTCCAGAAATTAACACAATAAATGACAATG
863 CaSNP2814 CTGTATTTATATTGCTGTTTACTATGTGGCTTTATGATGGGAATGCAGCCAGGGGATTT [A/C] GGATAAAAACAAAATGTGGAGAGTGTATGAGAGGAGTCTAAGAGAGTTAATGACGTGGC
864 CaSNP2815 GAAATTAATAGGATATGTGGAAATAATTAGGTGGAAAATCAAAGTTACTTGAAATGCAGG [A/G] TCATGCTGTAAGTTATAAAAATAAAGTAGTTAAAATGTATCGGATAAAAACACTTTATT
865 CaSNP2816 AAAAGATAAAAAGTATGATGTGGAGTGGAAAGATTGTATGTGTGGAAAGTGGCATGAAGA [C/G] ACCCAAACAACCTTCACAAAAAGAAAAGGGGATGCTAACGTTATATTTGGCAATCC
866 CaSNP2817 GGAAATAATGATGACATTTATGAGAGTTAGTGTGTGTAATTGAAAAATTTGGGAAGTC [T/C] CACATATGAGGGATATCACACACTAGTAGGGTATATAAGGTGAAGGTATGGAACCTGGGG

867 CaSNP2818 GAGAAAGCAATCTCATGAACTGAAACATTCACATACATTATAATCATGTGGGAAACAAAA [T/C] CATCAAAGTGAATATGTAATTACTAATTGGTAATTGATCCCTCCATTCTAAAATAAGTGC
868 CaSNP2819 CAACCAAAATGAGAAAAATGTCATAAGCATCCATCTTCCAGGAATTGGATTAAAAGGCTC [T/C] ATTCCAAACAACAGCAGCCTAAGGAAACTTGATTCCCTTAAAATCCTAAGCCTTCATTCC
869 CaSNP2820 TCTTTCCTTGAGATGGAGGCTTGGATGACGAGATATTACATGGATCGCTATTTGAGAA [T/C] CAGACTTTCATAAAAATTCAGTCACAGTCAATTATCGATAATCCGGATCAGCGAATTGTT
870 CaSNP2821 TTATTTATAACACAAGGTGGACTCATGGACTTACTTTCTTGCCTTATGTTACAATTCTA [T/G] AATTGTTTTACAAAATATTTCTCAAATAGTTATAGTTGATTTTTGTTGTAAGGGTCTCTTG
871 CaSNP2822 TTCTCGTGTTCACCTTCAATTGGCATCAGAGCTATGTCTCAAGGCTGAGTACTTTACA [A/G] TGTTTGAGGAAATATCCAAGGTTCAACATGTCTAGATTCTGTAAATTAGCAGATGAAGA
872 CaSNP2823 AAACTCAGCAGGAAATCTTCTCTTCTATAACAATAGGCAACTTTCCAATATCTTCCAAC [A/T] TTAAATCCACACAATATACAACACATAGAGTCCAAAAGATATTAGGATACTTGTCTTCTA
873 CaSNP2824 GCTAAACTGAGCAGCTATCATGCAATGTGTGCACCTGCCTAGTTGATTAAGCTGCAA [A/C] GTATCTAAACACAACCTCAGTTTAAATATATTTGTTGTTTTTCATCCATAATTTATGT
874 CaSNP2825 TCATTGCTGAGAAGCAACATGCTGTATAGTTCAAGTACACTGTCAAATGAGCAAGGGCAA [A/C] TACATCACCACCTAGATGTAGTTTAAAATAAATAAGAGTTCCACATTTTTGTGAATTAG
875 CaSNP2826 AGACAAGACTTAAACATTGTAAAGTCTAATTCGACATAAGCTAACCTATTTCTACCTTAA [A/G] TTGTTGATAATTATTACCAAACATATCTTCTAGTCAAGTTATTGTTGTTGATGTTGTTGT
876 CaSNP2827 ATGTTAGTCAATCACAATAAAAATCCCAATATTTTTGTTGCACTACTCACAATATACAATC [T/C] AGTTTCATCAATCACAATAAAGAATCAAATAGTGGCACCATTACGTAATATCACAAT
877 CaSNP2828 CTTCTCCAAGTAACTAAATTAACCCAAACATAGGCACAATATCCAGTGGCGAATTTTCAA [T/C] CAGTAATTGATCCTGCCAATCAGCATCTGTAATATAGAGACTTCTCTGTCATTAGTTT
878 CaSNP2829 GAAGAGGGTGATGATGTTGAGCTATGAGGTCAACAACCTTTATATTCTCAATCTTGTGAT [A/C] AAGGAAATAACAACATGAGATGTACATCTTGTTCAGTTTCTTCTATAGGCTCCCTTAT
879 CaSNP2830 AAGATTCTCATTTATCTCTGTTTCGATGGAGGATTATCATATTGATGTTTTTTGAGGTTT [T/G] TCTTGAGATGTAGTGCACCTTGATTGATGTTTGCAGAAATACATTGGAAAAGAGGAAGGA
880 CaSNP2831 TGAAGTTGGTGTGAATTTTTGAAGTGGAGATTATTTTGTGCATCACATAGGTGGATATGTC [A/G] AACCTAGTAATTTTTGGAGAAGTACAGCTGAATGAGTCTGATCGTGGCGTCTGTTGTTGA
881 CaSNP2832 AACCTTCCAATTTATTCACCTAAAATAAATGATAGTAACCGTCAATTTTAAAGAGCCAACA [A/G] TTATAAAGACAATGATTATAGTAACTACTAAATATTAAGAACTATAAATTGGAAAAGATA
882 CaSNP2833 TAAGCTACCTCCAACAAAGCAACTTGGGGGAAATCATCTGACTCTGATTTACAATGTTGA [T/C] TCTGTCTCGACTAAGTTGCCTCTGGCCAGTAATTCAACACTAGAAGATGATTGGATATGA
883 CaSNP2834 ATTTGTAATTTCAAGTGGTGTGCTCGTCTATTGGTTGCACTGGTACAATCAGCATCCT [T/C] TATTCATCTACGGTACTTCCATAAATGAACCTTCAATACCTTTTTCTCCCTTCAAAAACA
884 CaSNP2835 TATCTAGAACAATTTCTAAAGTGAACCTACCATAAATAGAACAACGTGTAGCTGAAACA [A/C] TGGAATGTCTCTCAGAGCAAATGGATTGTGACGCTGCTCCAGAATATGATCTACGACTTT
885 CaSNP2836 ATTTCTACCTCTAATTTCTGTTTCTGCCTCTGGTGGTATCCTCTGGTTCTGCCTTTGGTTC [A/C] GTTTCTGCCTCTAGTAGTATCCTCTAGTTCTGCCTCTGATTCGGTTTCTACCTTTGAAGA
886 CaSNP2837 AGATATGGAGTGCAGAAGTTCAACGCTCAAAAAGAAAAATTAACGTATATGCACATCAC [A/G] TCTAACTAATGCATATTTCAATTCATGCATGCATACACTAAATGTCACATGAAAAGTAT
887 CaSNP2838 ACAAATATTTAGTTGAAAAGTATATTAGAGCCCTTAAGATGAATAATATGCATTCA [T/C] AAACCTATTCGAGAATGACTAATTTGTTGGATCAATTGGCTCTTATGGAATCAACTGAG
888 CaSNP2839 AAACACATTGATATACATCATTTTTTTCGAGATCATGTGCTCAAAGGAAATGCTGAA [A/G] TAATATTTGGGATATGCACAATCAACTAGCAGATATTTTCACAAAGCCACTACCTAAAG
889 CaSNP2840 TCCTATTTCCCAAACAGCACCATCGGGAACCATAATTGTAGCAACATTGTTGAGTTTATT [T/C] CCAAATCGTTTTATAAATTCATCTGGAATTCTCTGCAATAATCATCACATGTTTAATTAG
890 CaSNP2841 TAGGACTCTTCCCTCACATTGCTCCTCGTGGTAAGTTCTTCAATGCACCAATAAATATGAA [T/C] ACTAATAATGTTGTGATTGTGCGACATGAGCTCCTAGGAGCAACCTTGGTGGAAACAAC
891 CaSNP2842 AATCCAGCTCCATGGAATCGGTTCCCGATCTTCAAGCACTATGTACACTGACGTCGATG [C/G] ATTTCCCTTGTGTTCCGGCTGCTAAATCTTTCTGGAACAATCGGTTGTTCAAGTCAGTCTCA
892 CaSNP2843 ATAAAATACGGTCAACATTTGTAGAATATGTAATCAACATCTTTTCAACAATAAGATATA [A/C] TCCATTTACAAGAAGATTTAATCAAGATTTATCCACAAGAAGGTATGACTTATTTACAAG
893 CaSNP2844 GTCTCCTTGTGGTGCACCTGTCAAACCCATGAATGTGATTGCATTTATCATGAATGTG [T/C] TGGACTTATGATGCATCTTGTATATCTTTTTTGTATCAACATTCATCTCCTTTATTGGAAT
894 CaSNP2845 TAACTAATTAGCTGACATTGTTGACTGGCTCAAGGCTGGTATGACTAGCTGGCTGATACA [T/G] ATTGGCATAAAGGGTGTGGCTTACTAGTTGGTGGCTAGCAACCTCTGTATAGAACCAG
895 CaSNP2846 TTGAATAACTAATTTAACTACATTAATAATCCAACGGCTCTATAGCCACAACGCATGTGCC [A/G] TTGCAACAGATAAACCAATGTCATGATTGTGGTGGTGGTGGTAAACCTGTAA
896 CaSNP2847 AATTCATAAACTCATTATATAACTAGAAATTAATCAGAAAGTTGTGTTCTGATGTGC [A/G] CCATGCGCTCCAAGCGCACTTCAAGCGCAATACGATAGATCCAATGGTGCAGAATTGCGC

897 CaSNP2848 ATCAGAGAGAGGTTTAGTTCCTCAACTAAACAAATTCATGAGCCTTCAGAAATTGAAATT [T/C] CAGATCAAGAATCATACCTGACCTTTAATCTCTTGTGCTTTCCTTTTGTAGATCCCACC
898 CaSNP2849 AACAAAAATACACTGTAAACATCATTATAATAAAGTTTACATCTCCGTCTTACATTTTT [T/C] CATCTTTAATTAGGATGTTTGTGTAGCCCTAAGAAACACCTCTTGATAAAAAGAACATAT
899 CaSNP2850 AAAAAAACCATCATTGAGTGATATATTTCTTGAGTGAAACACTTAGTGAGTGGTGACA [A/G] CCTTATTTTTATTTCTTATCTTGTCTTGTATTGCTTGATTATTGTGATACCCGGTTGA
900 CaSNP2851 GATTGAAGAAGAAGCTCTCTTTTTATTTATCATTCTCTAGCTTGATACCAAGCCAAATA [T/C] TATATCACTCTTGGTTTACTAAAAAATTTCTGCAGTATTTTTTACCTTTTCTCTTTTCAT
901 CaSNP2852 GCACTGGACCTCACTATGTAGAATTTCTCCAAAATGCATATGTTCAACTCTCAGCTTTA [T/C] ACTATTAACTTTATAAAAAAGAATAAAAAATATATATTATAACAAATACTCTACTCTATC
902 CaSNP2853 CACAACCTAACAGTTTGCCGGTAGATACTGCACCATGGAGATGCTAGTGTTTACAGGCAAT [A/G] TTGGGACTTCAACCTCAACAATTACAACAGATTGACTGTTTGTAAAGGTATTTATCCTA
903 CaSNP2854 CAACATCTTTAACATTGATGGAACGCGACAAATACGCTCATCAATATAGGAAGGTAGAG [A/G] CTTCAAAATGAGTTGAGTGACATATTTTGGGCCCATCCAGACGCTATCACTCTTGTAATA
904 CaSNP2855 TCCAGTTTAAAAATAGTGTCTTCACAGTTTATATTACGCCAAAAATGTGTAGTCTGTTC [A/C] TGGGATGCAAACTCTGAGCAATTTCTGGCATGGCATAAGCTTTAAAGAGATATGTCTTGC
905 CaSNP2856 CTTAAAAATGATAGGAAGAACAATATGTCCCTTGATGATCCTTATCGTTAATCTAGTATT [A/G] AGACAACCTTACATGCTTTACAAGATTTCCCTGTGAGTATGCTTGTGGGTCCATTTTG
906 CaSNP2857 CTCCATACAATCTAACTAACCCATATGTTGAAGGCAAAATACACATTGACCCTAAAAGT [T/C] AAGTCTTCTCAACACAGTTTGTCAACCCCATATTGCATGAGGAACACTAAAGCCACAAGA
907 CaSNP2858 ATTCTCCTTGCATCATTAAATGACAATCTTTCACATATTTTATTATTGGTTGATCCAAATA [T/C] GATATTGTCAACGTAGATTTGAATAAGTAAAGTGTGATCATAAGTCTTTTAAATGAATAA
908 CaSNP2859 ATCAGTTTGAACATTAGTGAAATCTCACAAGTGTGTGAGGACTGGACGTAGCATTCAATTG [A/G] GTGAACTAGTATAAAAAGTTTGTGTGTCTTCTTTATCTTTTTCTTTCTTTTGTCTCAG
909 CaSNP2860 AATGATTGCATCTCTTAATTCATCGTTGTCATCCAAGCTTCTTGTCTTCACTGCTAATG [A/G] CTTCTTGTAGTTGCTTGGTTCATTTCTTTAAGATCTTCAACAACATTTAAACATAAC
910 CaSNP2861 GACAAATAAATTTATGCACAGACTCAATTTTACATATCCCAAATTTGCTTTTGAAGTAT [A/C] GCAAACATACCACAAAAACTGGCCAGCTTATTCATTATGTGACCTCTCTTGTCTCCAT
911 CaSNP2862 CAGGCTACTATGATGAGTGTATCAAAATAAAGATAGTAAATCACAAGGGTAGAGAAAAA [T/C] CTGAACAAAACATTAGGAGAACCATTGAGAAAGGTTATCACCTAATAGCGTTACTTGAAA
912 CaSNP2863 AAGGTATGCATTAGATGATATGGGTTTCAGGATGTCATGTGCATCTAAGCTTGTGGCAGAA [T/C] GGCCAAAATGTATTTATGGCATCTGATGGATCATCAAAGTATGGAATATCAACTTTGGGA
913 CaSNP2864 GCTTTGATACCCTTGTGGGGAGTCCGGAAAGCGCCAAAAGCAGCAATGAGCTAAACAT [A/C] CCAGATCCTTAAGAGATCTTAACATTTATTTTATTTCATAGTAAATATAAGACTTTAACCA
914 CaSNP2865 TCATAAGGTTGCAACACATTGAAAATGTTTATTTTATTACTAATATAAGCACAATTTTGT [T/G] TATAGATTGTCAAGGATGCAATTGCGTCAAGGGTGTGATGGTTATGATGATGAAGTCAAGA
915 CaSNP2866 ATTTGGTTCGTTAAATGTGTGGTATTTAATATATTGTGATATTTAATTCATATCGTTAA [A/G] TATTGGGCATTTGATATTTGTGATATTTGATTTAATTTCTGTTAAACGTTGACATTTG
916 CaSNP2867 GTAGCGGATTTTGTCTCTAAGTCTTACTGTGTCAACAAGTAAAAGCTGAGCACTAAAAG [T/C] CTGCGAGGTAACCTCAACTTGTGAAATACCTGAGTGAAGTGGGAAGACATCGCTATGG
917 CaSNP2868 TGAGATTGGGTTGAGTTCGAAACAAATGAGTTATTTGATGATATTTTCAAGAAACCAATCA [T/G] TTATAACTTGAGTTGCTATCTCAATTTGTTGATGAAAAGGATCCACAAGTAGGGGTGAGT
918 CaSNP2869 TAAAACTAATCTCTAAATTTATTTATCTGAAAATCACTGTTTCTTCATCTTAAACAAAC [T/G] GTTATCCATGATTTATAACCCAACGCCATATAGGTGTGGCATGGGACCAATGCCGACCT
919 CaSNP2870 TAAACAATAAAAAATGATCACAAGTTTCTAGGATCAATTTGAGTTTGTGATGGCAATCATTG [A/G] AATATCTTAAAGGCTTGTGTTTATCAACATGAACATGATCCTCTAATAATACATAGGATC
920 CaSNP2871 AAATCAACAGTTTAACTTATCTATTTAAGTTGATAATCAAAATGACTGAAAGTATATAGA [A/G] ATAAGGAAGAGATATCTCACACTGATATATCCTGGTTCGCCAATTCGGGATACGTCCA
921 CaSNP2872 AAAACCAATATATGAGATTTAAATAATTCAGCCTTTGAATGATTTGAATCTATTTTAAACC [A/G] AGTCTGTTACAGCCTTGTGTTAGACCTTCTATCTTCTAGTTTAAATGTCTTTGAAGCTTCT
922 CaSNP2873 CCAAGTGAAGATACATTGATAATTTAGAATTCGATCAGGAGGAAATTAATCCACAA [A/T] TAATTTTCTTTTAAATATGAATTCGAATCTATTGAAACGATGTTTCTTTAACGAAAT
923 CaSNP2874 AGCAGATGCAGGGGTGGAGGGTCCACAAGAAATTTATCAAGAAGTTGATCAATAGATGT [A/G] TAGTTATATTCAGGATATAGTTGTGAAACTTCAAGGTCATCTTCCCTTAGATCAAAGTTC
924 CaSNP2875 AGAAATCAAAATATCCACAGCATGATGGTACACCAGACCAGCAAATTAATTAATCCAC [A/G] AGAAAACAAACCTAGCTGGAACCTTTTACCTTCTCCAGCTGCAATAAGAGATAGTGCATGA
925 CaSNP2876 TACAATGTGAAGAGATCAAATGACAAAAGAGTCATGGTTTGGTGATAGTTGGTCAACACT [A/G] TCAAGAATATAAAAAGTACTTGGACCATAAAAATAAAAAGTGGTAGGATGATGATCCTCTTA
926 CaSNP2877 CACCAATAGGGGCCATATACACCACCATATGCACCTTAACTGGTTATTCATTATTTTTTA [A/G] CCGTAAAATTTGGATGCTATTGTCTCTGTGTAGGTCCAAAATTCGAATCACATAGAG

927 CaSNP2878 TATTTCCCATTTTTAGCACCCTAACAAATCAACACGAAGACAAGATTCCAGAAAAAGATG [C/G] ACATATATTTCCAACAAGACATGTCGAAAAAGATAGGAAACATGTGTGCGTTCGCGGGGCGC
928 CaSNP2879 TGCTATGATAACAAAAGGTTTGATTGAGCCCATATCCAGTGTTTTTCGTGAACCTTAGTTAA [T/C] GCTGATTTTCACTGCTAAACAAAAGAGGGCTAAGAATAACCGAGGAGAGAGTTATTTCTTGAT
929 CaSNP2880 TATTGAAGTATACAACCCTATTGGGCTATGTTACAAAAGAGCAGGTTTAAAGGTTTTCT [A/G] AATTACTCTCACAAGAGGGTGTGTATAATGTTGTACTCTTAGAAAAATATTTATCAGCAC
930 CaSNP2881 TGAAAACCTTGCACTATATTCAAATTTCCACCATATTTATGACAAAACAAGTCATCCT [A/T] AGATTCAAATCATATGTCTAAATTTTCAGTTCAGACCAGTTCAGAAGATACTCAGTCAGA
931 CaSNP2882 AACATGAGAATTCTCCGTTTGTGAGATCGTGTGGAGAGATATCGAAAGTTTCCCAT [A/G] TCCTCTTAATTTGAACTATAGTGATGATATTAAGATATTACAATTGACCAGTTTAGGGT
932 CaSNP2883 CTTAGATTGAAGGCTTGTCCGATGTTGCCACTTGTAGGGTTTGACATCAACACGACAC [T/C] AATATATATAGTTACATTCAATCAATTATATTTTCATAATTTATATTTGACATGATGT
933 CaSNP2884 AGAACCAATACATAACATCAAAGTGCATTTATATCACTTATAATTCAGTAGGAAAGTGA [A/G] TGGAGTAATACATTTACCATTACCAAAGTTGTTTCTAGAATTATGTGTCACAACTCTTG
934 CaSNP2885 TCATCTTCTTCAAGCTCAACTTCATGTGATCTAAGAGCGCTAATTAGTTCCTCTAGCTTA [A/G] GAGTATTCAGATCATTGCTTCTTGATTGACATTGATTTTAGGTCTCCACTTGCCTGTGCA
935 CaSNP2886 ATATAATGTCTGGAGAATTGATGTCAAGAAGGCTCTGATTCAAGACGGTCTGATGCATA [A/C] GATTAGAATCAATAAGGCTAAGTCAAGAAGCCTAGAAGTCAAGAAGGTTCTCATATCCTA
936 CaSNP2887 AAACATGTCTTATTTCTTGGAAATAGAAATGAGCTCAATAGAGAATAGAATGATCTACAC [T/C] TAATGAAGTATGCGAAGGATCTTTTGGTAAAGTTCAACATGTTAGCATGCAATTTAGCAG
937 CaSNP2888 GTGGAAGTACAACATGAGTCTAATACCCAGTCTTTTCCACTTCAGAATCTGAAATCAT [T/C] AATGCCTATGTAGATTTCATAACCAGCATCAACAAGTGCATCATTTCTGAATCTTGAGAG
938 CaSNP2889 CATTATATGATTAATTTCCCAACATAGGAAGGATCTACCATTACACCCAATAAGTTGC [A/G] ACTGTGAAATAACAAAAGAACAATACAAGCACCAGCAGAAAGTCAATTCACGAATTTAACTT
939 CaSNP2890 TCGGTCTTCCACATGGTTATACACTACTATTGATTATTGACAATTCAAAAATAATTGATT [C/G] CCAAATGCTTTCCACACATAATGTATCTCTGACACAAGGATCGAGTCCAAGTATTGAACT
940 CaSNP2891 TAATTTGATCCTGGAGTCGATGTAAGTTACGTATGAAATTCCTGCTAGTTTGACTT [A/G] TTGATCTGAATGATGATGATGGATAACAATGCTGTGATGAGTATGACAATATAAATATCT
941 CaSNP2892 TAGTAATACTCCACATGCTCACATCACAACCTTGAGGATATAGACTTCGATCTTCTCTT [T/G] TCTCACCTTGTCTTCTGAGTGACTCCTCCCTCACTCAAAGCCTTCCACGGCTAGTGCAT
942 CaSNP2893 AATTGTTAGTGAGCAATTTAGAGGCTGATTTGTGTAAATGATTCTGATTTTGCAGGT [T/C] AAAACATATTGACTTAAAGGAATAGTTGTATACCTTGTGCGTTTGGTATAAGACCACCA
943 CaSNP2894 TGTTAAGAATAAATAAATTTGAAAATCAATCTAAAACTCCCACTGTCATAGTTCAAT [A/G] AAAATAATTTAATCATCTAATCTTTGAGTTGGTATCCTCTTTATGTCTCTTTCTCCA
944 CaSNP2895 TCCATATTGGACCATGAGTAATCACACAAGTGAATGGGCATTACTCGGGGATCATCC [A/G] TATTGAACTAAGAACAATAACACAAGTGAATTAACATCACAATAATCACTATTGAGTC
945 CaSNP2896 TAACTAATCTATTATAAATTTATATTGTTATGTCTCTACCGGAGTACTTAATAATACA [A/G] AGTGTCTGCAGCCCTCATGCAATATGAAGTTTCTCAGAGACTCATAATTTTCTCTCTCT
946 CaSNP2897 ATTTCTGATACTAGAGCAGAGATACTCCTCTTTAGTTGAATGTGAAATATGCTCCCTCA [A/G] ATGGTGTTCCTTTACCAGATCCCACTTTGTATCGTACTTTGGTTGGCAGCGTAGTGTATT
947 CaSNP2898 AGGTTCTGTAGCTGCTTCTTTGTGTTCCCTCAATTTGGTGTAACTCAACAAGTTCACTGTC [A/C] GAAACACCTCTATGGATCTTTTGTGTTCTATTGACTTAGTTTCCCTTTCTGCAGCAGCC
948 CaSNP2899 ATCATTGAAACGCTAATATATTATCATAATTACTTCTAAAGTCAACATATGATTAATT [A/G] TGATGTGCTGAAGCATATAATTTTTTCACTGATAGACAAATGCATGAAAATTACTTCTC
949 CaSNP2900 TATAGCTAGCTACTGATGACTCCAGTTGTTTGGCTTGAGCACTCAAAGGTTCTCTGGA [A/G] ATAAAAGGGAATCAACAACAATAAACAATTTAAGAGGAAATCTATCACAACCACAAA
950 CaSNP2901 TTACATTGTGATTAGTAATTTTTGACAAATGTAGCTTATGCGGCACAAATATGAACACA [A/G] TGTGATTGTAGAAACCTCGATAACTTCAATACTGCAATGCATACCACAATAAACTGC
951 CaSNP2902 ACACCAAAAATTTGAAGACACGTCCAGTGTCCGAAAATGTCGTATGGCACCACACATATA [A/G] TTATATTCAATCACTTCCATTTTCTCAAATTTTATTTGGTGTCTACATGCAATATTAGTG
952 CaSNP2903 CAACAAACCAACTCTAAAGAAAATATAGAGTACTATTGTAGCTTTTCTTACAACCTCA [A/G] TAGTACTTCAACACAACCTATTGGTAGTCCGTTCAACAAGTAGTACATATTAATGATTTG
953 CaSNP2904 CGATTGCTCGGCCATAAGACTGATGGATAATCCAAAGTAAAACAGTCTGTTGAGGGATCAA [T/C] CAATCAATCAATCCAAATCCATAAATAAAAAGGAATCAAAGCAGAGATACCTTTACAGCT
954 CaSNP2905 TTTGTATGCAACATGTCTTTTTTATATATAATTTACTTATTTGACCTCTATGCGGCCT [T/C] GCTATTTGACCGCAACTCTATCCGCTGCTTCACATAGCGGATTTTTGGTGTTTTGCTATT
955 CaSNP2906 TATGCAAATCTGGACTCTCTGTTTGAACCCCATTTCTGATAATGTATCACAATT [T/G] TTTCTTTATAATAACCATTTTTATTTATGATGGTACTTCTATCTCTCTAAATCATACTAT
956 CaSNP2907 AAGCATCCAATATAGGATTGTAAGTAATTAATAGTGGTTATCGCTTTAGGAATGATT [T/G] TTCTAAAATGCATTTCTTTGAGAGGTTTATGGCTTCATCCACCATTTAATCTTACAAA

957 CaSNP2909 ATAACCTCCATTTGAGGAATGCTATGCATTAATCAATTTAGCTCGAATTTGAGATTATA [A/G] AATCAATGATATGTTGCATTTGACTTGAATGTGATGCGACAACACTCTGATGAGTTATGT
958 CaSNP2910 ACATGGTTCCACGCCTGTATACAATATTAAGAACAGGTATCGGATAATTTGATAGCTAGA [A/T] AGTAACTTAAAGCATTTCATCAGCCCTGTGATGGAATCGCACTATCTATATGGATGTTAC
959 CaSNP2911 TTTGCTTGTTCAGATTTTGTGCCTGAGAAAGTGAAAGCTGAGGATGCATTAAGGGAGACA [A/G] ACTCAAGAGGGAATAGATGAGCTTAGGAAATGTAAAGCAAAGATAATGGAGAATGTAAGC
960 CaSNP2912 AGTGCTAAGGACAATGTATTGAATGTTATCTCTTTTCTTTGTTGTTATTTGAGCTTTTTT [C/G] GTCAAATCATTGTAGATGCTTAAGTCTATGAATTCAGAGGGGAATGACGCCCTTTGAATC
961 CaSNP2913 GAGTTACAACAAGGTGAACCTGGAATTTACTCTGACAGTTTTGAAGTTGGGTGGAAGTGCA [A/G] CCACAATGCAGTAGCAACAACCTTATGATTTACTTCATCAGATGAACGGTTCTGTCTGTAT
962 CaSNP2914 ATATTAATAATTAATTCGTTATTTTCTTCTCAGCCATAATCTATCAATTCAGGGTTTGGC [A/G] TTAGAAGGACCATAATTAATGGATAATAATATGACTTAACAAAGGAGTCGTAATACGTGT
963 CaSNP2915 ATTTCTTTTGGAGATTTCTTCATTGTTGAGTAGATACTTATGTACTTTGATAATGTGAATG [A/G] CTTCTTGCTTGTTCACTTATGCAATTCATGTTCCCTTAAATAAAACTCAAGTCAATCATT
964 CaSNP2916 GTCCAAGGAGGGTCATAATCATTGCATGGAACCAAGAACCATAATTATTGTGCGGTGAGAG [C/G] GTGGGAAACAAGAACAAGATCAGGATTATAGATTGGAGATGAAAAAATGATAGACACT
965 CaSNP2917 TGATCAATGTACTACAAGTGAGAAATACAAAGAAGAGATGAAGAAGGTTCCCTTATGCATC [T/C] GTAGTTGGTAGTTTTATGTATATTATGGTATGACAAGGCCATATATTGCTTATGCAGTTG
966 CaSNP2918 TCATCATAGGTGAACGTGGCATCTTTTTGCAGCAAATTTGACAGTGGAAGAGCTATCTTG [T/C] TGAATCCTTGATAAAGTGCTGTAAAGACCTAGATGGCCAAGGAAAGAACAAATCTTGC
967 CaSNP2919 AGTTAGTAATAACCCATAGTTCACAGTGACTACCTAATTAATGCTATGACCATTTCATG [A/T] TAACCCACCACCATAACTATATAGATCAATGAGTCTTTTATAATAACAAATGTATTTAA
968 CaSNP2920 TGAGGACCACATCATATTTCCAGTTTTCACATAATACACCCATTTGCAGCGTATAGGTTTGA [T/C] ATAAGGAGGACAAGATACAATGTCCCATGTGAATTTCTCTAAAGAGCCTGAAACTCCTC
969 CaSNP2921 TTGACTTTAATAGAGTCTTGTGTGAGTGACTTAAATTTGAAGGTAGAGAAGAGAAGAGAA [A/G] AGAAGGAATGGGCATTGATAGGATGTGGATCTTCTACGAAATTATATTTATTGCCGTGGG
970 CaSNP2922 AAAATATGTTTTTACATTTAAAGAAATCCACATTAGAAATGTCATTCATACATATTTATCAA [T/C] CGTAGGTTGCATTTTGTAGTTAAATTTAGTAATGTATCATCAATGACTTTTTGTAATGTGCA
971 CaSNP2924 CTGATACCTGTGAACGTGCTGAAAAGCCTGCATAATTTGAAAATATGAGAGAAGTTACAC [A/C] GCTTAAAGATGCAAGCAGTCACATGCATTCAATATCTATGCAGATAATCATTTGAGTGT
972 CaSNP2925 ACTGTGTAGGTTAGTTTTGAATGCCTGTTCCAGCTGAGTCAAATGTTGTCTCAACCATCA [A/G] TCACGCGTTTCAATAACATTTGAACTGAAAGTGATGCCACTCCAAATTTGGGAATAAGA
973 CaSNP2926 CTAGTTACTTGTGTCGAACAAAAGAAGTTTCAGTTTTATTTGCACATAAATAGATTCTAC [A/G] TGGTCCAGGGAACACTACTAGAAAAATGCTGTCTCCACATAAAAAATGTCTCATAGCGATA
974 CaSNP2927 CATAACCACCATCGTCATAACCAATATCATCTCAACTTTCTCCGCGCATTATCAGCAA [T/C] CTTATCTTCAATAAAATCAGCACCTTCCACAAGTCAATTCACCAAGAACCCCGCGAC
975 CaSNP2928 CAATTCAGGACCAATAGAGAATCTATACAAGTAAACTTCTCTAGTGCCAATGGTGGGG [A/C] ATAATATACTCATAACAGTCACTAATTGATTACAGTTATAGCATAACTAAATAATTAGA
976 CaSNP2929 TGCTTTGGTAATGTTTCAATTTGTGTCAGGGGACTGATGCAATTGAAGGAATAATATTTGAT [T/C] TGTCTCAACAAGTAGATTTACATGTTTCGAGCTGACACATTCAATGTGATGACTAAATTA
977 CaSNP2930 AAACAAATTTGTATCAACCAAGAAAATAAAACATCAAAGAAAATAACTGTA AAAAGAAA [A/C] GGGAACTTCGTCTATAAAAATTTGTGCCAAGGAACTATTGTACCTTCTTACCTAGTAC
978 CaSNP2931 ATATTATCATTTTATCCAATATACATGTACATAAATCAATTAATCAAATCATAATCATA [A/G] TTAATCATGACAATACTATATTCATCTTTGCGAGAGAGTATATTATGGTGAAGATGACA
979 CaSNP2932 TCGAATAGTTTTCTTAATGTTGTAAGTTTCGTCCAAATTTGCTGTATCTTCCAAAAAC [A/G] TAGTTGCAGACATACACATGGAACAAGATTGTTGGTACATCATCATTGGAATAAAAAAT
980 CaSNP2933 TGATGTAACATAATATAGGAAAAATGGAACACACATTTGTAGTGGCTAACAAATCCCT [A/G] TGGAAGAAGAAGATGGTCATGAAAGAGAAAAATATACAAAAGTCAGCTACTCAATGAAA
981 CaSNP2934 AAAAAGAGTGGAACCTAGCTCAGATGGGTTACTTCTTAGCTTGTATGTTATCCCATGCTT [A/T] TCATTTGTTTCTGAATTCGATAGTAGTAAAAGAATTGAGATTTGACCATATTTATTTT
982 CaSNP2935 ATTAGAAAAATATTTATAACACAAAATATTTAAATTAACACACATTACAATTTATGGGT [A/G] AAAATAGGCTAGATCGGCCCTGCTGACCTATCTATGATTTGTTCTGACATGTTTACTAA
983 CaSNP2937 AAAAATATGTTGAAAACAGCTTATGAACATGTCATAAGTTGGTCCATAAACTCTCTCAA [T/C] CAATCTCACAACTGCTTATGTCAGTAGATAAGCTCAAATAAACTTAAGTACTTATTTAA
984 CaSNP2938 GGTGGTCTGTTGGTACTGGCAAAACCGCTTTGATGTTATCGCTTTGTCAAATTTAAGA [A/G] ATCATTACAGTCTCGCTGCAGTAAGTACTAGCTACTAATTCATCTATTTTCTATCTTCA
985 CaSNP2939 CCTTGCGCGCCCCAGGCGCTTCAAGCACAATTTGGCAGATCTAGTGGTGCAGAAATGC [A/G] CCCAAGGCGTAGGTTTACGCTTTAAGTGACACAACATCATCTCTTTGGCGTTTAGTGAT
986 CaSNP2940 TTCCAATATATTTGTGATAACTAGTGTCAATTAATCTATCTAAGAATCCTATTCAGCATT [A/C] AAGATCCAACATATGAAATAAAACATCATTTTATTATGGATCATGTGAACAAAAAGA

987 CaSNP2941 CCTCGATCTTTGATTAGTGACGAGGGCACTCACTTTCTAAACCAGAAAATGGAACACCTT [A/C] TAAGGAAATATAATGTGCGTCATAGGGTGGCAACCCCATATCACCACAACTAGTGGGA
988 CaSNP2942 GTTGTCCAGGTTGTTAGGAGAAGACTTGGCTTGCAAGGTCAAGGTGATTAGTTCCTTCTTC [A/C] ATTTATGGTTGTCCAGGCTGTTTGGGAAGACTGACTTGGAGGGTTAGGTGCTTTGTAATTC
989 CaSNP2943 ATTAAAAGCTAGAAAGCCCTTGTAAAGAAATGTGCAATTTGGGTGGTGGCTTTAACAACTA [A/C] GTTACTTGATGGAATGATGCAAATTTTCATCATAAAAACCTTTCCGCATCATTGGTCCAAGGT
990 CaSNP2944 AAGTTGATGGAAAGTAAAGGATGACAAAATGAAGTTGAATGATAAGTAAATATATGCATA [A/G] GTTTTGACTTGACTAGGTTGCAAAAATATGACTCACTTGACAGCAGTTAGATGTGCTGCAA
991 CaSNP2945 AAATAATTACCAAATATTTAGCACAACTACAACAGTCATCGACATCCACTATTTCCCAGC [T/G] TCCTAAAAGCCGGTCCCTGTACTCCCTGCCATAACCTTCCAAATAATATTTGCATTGTAT
992 CaSNP2946 CTTCTTTTACAATATAATAACATAGTATGTTAGTAATTTAATAACGAATATAAGTATGTA [T/C] AAATATTATGCGATAGCTTCCATTCATCAACTAAACTAAATAGTTGTTAAAATATCCA
993 CaSNP2947 TCAACCGCTATATTCAGACTGAGACGCTCTTCTTCTTATGCTAGTACAGATCGATCTCAT [T/C] GTCCGTCGATAGATAATCTTGACCAGTTAAAGGAGCAATGGGCAAGTGGCAAGAAGAAA
994 CaSNP2948 ACACATATCCATTACTTAGAATGATAAAACAAAACCAAGATTTATCCCATTAGTAGAGTC [A/G] GCTACATGGATCAAACGACACCATAACATTCATATACATATAACATATATCTTTCCAGCTCA
995 CaSNP2949 TATCTCAAATATGAATTTGTGGTAAGGTTTCAAATGAAGAATGGCAAGATATGCTCGG [A/T] ACTTAACATTGGTTTCGACGGCTGCAATTTAAACATTGTAGTTTTACAGGTGCGTGTAAAT
996 CaSNP2950 TTCTTAAGCCATTTACAAACCAACTTGGCATCTGATGATGTTAAAGTATAATTTGGATT [T/C] GGTTTACCCATTTTTCCATAGATAAGAGTTGCATCTCCAAGTCCCCATGAAAGCATAAT
997 CaSNP2951 CATGGATCCGTCCAATGACATGGTACAGCGCTGTAAAAATGCTGATCGTGTGTCGAATGA [A/C] GATAACATGGAGATGATGTTTGTGGTTGGTGACGAAGAATTTCTTGCCTATCAAAGAAAGG
998 CaSNP2952 TATAAAAAGAAAATGAGGATGAATGTTTTTTTCAATAATAAGCCAAATGCGAAGAAAAGA [T/G] GGTGAATGGTTTTGTTTATGATAAGATGGTGGAGTGTGTATCTTATATTAGCATTCGTTA
999 CaSNP2953 TCATTAATGCATGCCAAAAATATTTGTTTCATCGAAGGCATGCTACAGTTACTGCTCATCA [A/G] AGTCATGCTACGGTTACTATTTCATCAAAGGCAGAGAACTCCAAAAACACGTTGAATCTT
1000 CaSNP2954 AAAATTGACAAGAACAACCTTTTGTCTGGAATAGAATAACCTTTGTACTGAAATATACG [A/T] ATACAAACTAAAATATGCTCCTTCATATTGAGAACAACAAGAAGGAATGGTGGCAAAGA
1001 CaSNP2955 CATATCAGGTATGGGCAACCATTTATCTATGCGTTGAAGATCTAAGCTTGTATATTCAA [T/C] GAATCTCTTCTTCTCTAATGCGTCTGAGAATAGTCTATCATATGGACTTATATGAGAA
1002 CaSNP2956 CCAATCTGTGTCTATACTTTTATAFCCCTCTAGGCATTTCTCTTGGTTTTTTTCTATC [T/C] GCCTCTTTATTTTGTGCCCACCCTAGGTAATTATCTAATCACTCTTTTCATAGTGTTF
1003 CaSNP2957 AGCTAGGTATGAAAAATGATACAAAAATAAATATGTAAGGACACGCCAGTGGGACT [T/C] GAACCCACAATCGCTTGATTAGAAGTCAAGCGCCTTATCCATTAGGCCATGGGCGCTCAT
1004 CaSNP2958 ATTTTAAATTTAATAAATTTCCATGCCTCTAAGAGCACTAACTCAAGACTGATAGTAAG [T/C] TATAGACAAGCTAAATTCAGATAGTCTCATCTCTGTTTTCTAAGCTACTTTTTTCATGCC
1005 CaSNP2959 ATTTCCAGGGTATTCTCTCATCAAAAACCTGAAGGGCAGGCATGTCCAAGTCTAATTTTC [A/G] GCCAAGTGCATGATATTTGCAATTCCTAAGATGATTATGACGCTTGACCATGCCATCT
1006 CaSNP2960 ATCAATTTGGAGTTTTTTTGTGACATATACTCCCATTGGTCGCTAAATACATTCATCACG [C/G] GTGTAATTATGTAATAATTCAGGCGAGTTCACCGTTAGAATGCGTCAAACCTGTTATCACG
1007 CaSNP2961 GTGAGATTAGTAATCGAAGTATGGAATTCATCAAGTCAAAGTTCCTCTTTCAGAGACTC [T/C] GACAGGTAATTTGGATACTGATAATAGCGTTGATGCTTCAAGATCAATGGCAACCAATG
1008 CaSNP2962 AGGTCTTTAATGTTGTAGAGGCCAAGGTACATGTTAGTCATTTGGGGTAGTGGACTTGC [A/T] ACTTGGAGTTAAGCAAACCTACTAATCATTTTAATAGTTCACCATGACTTGACAACCTTAT
1009 CaSNP2963 GCTTACCAAACAGATAGGTCACGTGTGTTACGTATTGTTCTTCGATTTCTCTTTCGATCAC [T/C] ACAATTTTCTTCTTCTTCTTCTTCTTCCACCTCTTCTTTTTTAAACCCTAACCCATC
1010 CaSNP2965 TATTTAGAGATTTATCATTCATAATGAGTCCATCAATGATGGCATGACAAATAACATGTT [A/G] GCTTAATTACAACACTTTGATCAATCAATTTTAGCGGATTTGATTCAAGTGATTAGTCGT
1011 CaSNP2966 TAGCATAGTCATGTAATACTTCAACGATCTCATCTTAATGAAAACCTCAATCGACTTCC [A/G] ATGAATCCCGTTTTGTAAATAACACGAGAGCAAAGAGTTCATGAAACAACATCTCTCTC
1012 CaSNP2967 TAAGATAATGTAGTTAATATATACTAATCAGTATGAAATTTGACCAGACATAACATA [T/C] GTTAATAAATATGCTAATTAATATAGATATTGAGGTGCATGTTGTAATTTTAGGATCTAT
1013 CaSNP2968 GTAATAAACATATTTTCATGAATAATGGTGTGATGATAAATTTAGATATTTTAAACAATGT [T/G] TTTATATTAATGTATACCCAGGGGATTAGTTTACTAGGAGAGACATTTGTTCTGTTAT
1014 CaSNP2969 ACAGAAAACGAATGAGGATTGAGTTGAGAATAATAGTGTACAAAACAGTCAAGTTCAA [T/C] TATACAACCTGCAAACTGTACTGCTACTGCATAACATTACTCCCTCAATAAAAAATTGA
1015 CaSNP2970 TCGAACGTACGGAGAACCACACAATCGCTTACAGAATCTTGTGAGTATTCTTTCATTG [A/G] AACTACATGGAGCCAATTAGGGGACTCTATTTTGTCTTGGTTTTAAAGAAAGCATTTAAT
1016 CaSNP2971 AAGCGTCTTAGAATTACACCCTCAATATGGCAGTTAAAACCACTCTCAATATGTTACACC [A/C] TCAATATAGCGGTTAAAGTCACTCTTAATATGACGATTAAAGTCACTCGCAATATGGTAC

1017 CaSNP2972 ACAATGTACCTTGAATTCTAGTTTTCTCTTAGACTGAGACCTCCCTGGCTTCTTTTCAC [T/C] ACTATTATTCAAAGCAACAACACCTTCAAGTTTCTCTTTCAGATTTTGAACCTCTAAATC
1018 CaSNP2973 TCTGGATAGGAGGCAGTATATTGGCTTCTCTTGGTTCCCTTCAACAAATGTGGTTCTCCA [T/G] ATCCGAGTAATTATCTCACCCAAACATACGCCCTTCCCCGTGTGCGCAGATTGTCAA
1019 CaSNP2974 TAATTTATTTAGTTCACTATAGATATGAACATTTGTATGTGTGTAGTTAATGTTGGA [A/C] ATGGATGCTTTGGCTAAATTCATAATTCATATGAACAACCATTTAGGTAGCTCTCATAG
1020 CaSNP2975 TTGACAGTTGGCTTTCCATCAAGAATCTCATTCCCTAAAATTTCTGGTTGGGTTAATTA [T/C] TTCCGTTTTGTATATCGTGCCATTTGAATTCATAGCATGTGGAAATTGATTTGTATTCC
1021 CaSNP2977 CACAACTAGCATGTGTGCACACAAAATAATCTATGGTGATCAATGCTGCAAAATTACA [T/C] GATCACTCGTTCTTCTTTGTGATAAAAATTCACCAAGTTTGTAAACAATTTAATGGT
1022 CaSNP2978 AGAATGTCAAACCTTTTTAAAATCATATATTAACAATAAAGATTATATTAATGACTGCA [A/G] TGTAGCAGAGTGCACCAACCCCTATATCTCCTGTCTTTTGCTTGTTCCTTCTAATC
1023 CaSNP2979 GTATTATTTGAGAAAGATGGAGGTTGATCAAAATTTCTAATAAGATGAAGTTTCCGGCTAA [T/C] TATACTGCTTTATGTGGTTTTGTTCTATATGGTTAAGTCTACTGGCATTGACACTGGC
1024 CaSNP2980 TCTTAATTGAGCAATTAGATTTATTTTCTTGTCAAATAGAAAACCTAATAATTTTGATA [A/T] CAAAGAATTCAGCCAGTATCCAACTGCTTTGTTAATAAGGTGATTGCTCAAGTAGTT
1025 CaSNP2981 ACTACTATATACGAGAACAACAATGATAACTTGGCAAGGGTGACAATGTTAACTTTTGG [T/G] TCAACTTGGTTGGACAATTTTGGTTTCTATACTTAATATTTGTTGAGGACAAGTAAC
1026 CaSNP2982 AGTCATTGACTCAATCAAACGTCTATCACTATAATTATTGACGTTTGTGACGCCCCGTAA [T/G] TAGGTGACGTGTACGGTACGTGGTTGAGTGACGTATGACTCTCTTATGTGTGGGTCTAAT
1027 CaSNP2983 GTTATGGAAATTTAAATGAAACTACCATAAAGCAATAGTTACACACATCAATGTAA [T/C] ACCATATCTACTAATATTTGCAGAATAATGGATCCTGAGTTCCTCATACATAAATTGAA
1028 CaSNP2984 AATTCAAATCAAATTCAAACAACATCTTTTGATAGTCCTTCTCTAGAAAATTCATGCTA [T/C] CACCATCCAAAATTTGTGACACATTTAGTGAAAGTAATAATAATCATGAAATGTATTGTA
1029 CaSNP2985 AAAACTTTAGAGTTTGTCTGTACCAAAGGCAACACTTTGGAACGAGTCGTAGTCATCA [A/G] AAGTAGCAAAATATAAGCTTTAAAGGTAGGCTTGAAGAATGACTTTAGACTTCAAAGGCA
1030 CaSNP2986 TAAGAAAATATCAAAGCGTAGCACAAACGAAAAATGCCATACTTAATTATATCATAATT [A/G] TAACAAGCTGAAATAGTCTTAAGATGATATACCAAAATATCCAAATATCAAATCACTGG
1031 CaSNP2987 CGCTCCCCATGCATGAAATGGTAAGTACTCAAAATTTTACTAAAAATCTCCCAACAA [T/C] TATCATAATTAACAAAGATTGTTATCCGAAATACAAAAGGCATGACTTGGGACTACCGTT
1032 CaSNP2988 ACATAAGTAGATACTAGATTGTTGATTACATGTAAACCTTATGGATAGATTACAAACCAT [C/G] GTTATAGCCAATTAATATGAATGTTAATCTCGTACATTTTTTGTTCGTTGAAATAT
1033 CaSNP2989 AACACTCTACAAACACCTAACCATTTATACCATTCCACTCACACATACCCCTCTCCACAAC [A/G] TCTTTCATCTACCTCACCCACGCTTGTGATCCTTTTCACAAGCAGTTGAGATAGTAGCT
1034 CaSNP2990 AATACAATGCAATACTGCCATAATAACAATACATGACTGCCTGATTATTTGATGCACTTGG [T/C] CCAACCTCCTTGAGTCTCCAATTATAATGTTTATTAATTTAATAAGTGGTC
1035 CaSNP2991 GACCAAACCGCTACATCGGCGATGTCACCTGACAACAGAACTGATAAAACATGAGGAAT [A/C] AGAATCACTATATAGATATTTACCACAAGAGATTGGCAAACAAGGATATGCTTAAACT
1036 CaSNP2992 CTATTTATAGTTAAATTTAGGCTTCAATTTAGTCTTTGTTAATTTATGAATTTGATCCT [C/G] TTCATATTGAGTTTGTAAATTTCTCAGATCGATTTTGTTCCTATTTTGTTTAGATAGAGT
1037 CaSNP2993 AAGGTGAAACTGACATCTTTTGCACAAAATTTGACAGCGGAAGAACTATCTTGTGAAA [T/C] CCTTGATAAAGCGCCTGTAAAAACGTGCATGGCTAAGAAAAGAATGAATCTCACGGATGC
1038 CaSNP2994 TCCTTAAAAACACCTCAATGGTTTGGAGAGAGTGTGTTTATAAACTACACTTAATCT [T/C] AATTCCTAAAACATGTGAGACTTTTGGTGCCTGGAACAGATATAAAATTTGTGTAGAAAT
1039 CaSNP2995 ACTGAATGGTATTGCCCTCAGATGCACCACTGGAAGAAGGACCAATACAGGCTCTATCG [A/T] GGAATGGAATTCAGCACCAGCAATTTGTGTGGGTCGTGGGAGACATGTGGGATAGTCAG
1040 CaSNP2996 TGCTTACGTCCAATCATCACAATATGTTAGTTTTTCACTAATGTGTTTGGCATAATAAC [A/G] CTCTTGCTTTCACACTATATTTCCGGATCACTCTTGATCAGTTACAAAATTCACCTTTCA
1041 CaSNP2997 CATATTTTGCTATATTTTGAACGATGTAATTTGACACTTATTATTCAATTAATCTCTTTTT [A/G] GAATCATTTAGTTGTTTTACTTGCACGATTTTGTGATGTTATTGTATAGTTTGAATG
1042 CaSNP2998 GTATGCGTAACTAAATGTTGATTATGATTTTTCTTATTTGTTTATGCAGAAGCATATT [T/C] AGTCACAAGTACATAGAGTTCCCAAATTTATGGGAATGCACAATCTGTTGCACGAGAGA
1043 CaSNP2999 GTGAATGTGAGAGCTTTAAATGTGTGTTAATAATAATGAACATAATGACTATCTACA [T/G] AATTGTTTTCTCGAGGATTTGTTTATCTTATCCAAAAATCCAACTAGCCAATCAGTGA
1044 CaSNP3001 ACAATGCATATGTGACTTTCATGTATGCAATGCCTATCTCATTATGACTTCAAATGCAAGT [A/T] ATTAACCTAATCCTTAACATAACAATATGTAATAAGATAACATTAGCTTCAAGTCA
1045 CaSNP3002 TGGACAGCGGCACCATAAGCAACAGCTTTCATCAGGGTTGATGCTCTTGCATAATTCCTTC [T/C] CATTGAAGAAGTACGCAATAGTTCCTTCACTTTGGGAATCCTAGATGAGCCACCCACAA
1046 CaSNP3003 GTAACACAATAAGGTGACACTATCTTATCTTTGCTTAATGATGGTGAACAAAATCCTAC [A/G] ATAACAGAGAATCAAATAATAACAATATAGGTAATGGCAATTTGTTACTTGTTTTATCTGA

1047 CaSNP3004 TCATGAGAGGACCAAGCATATTGAGATAAACTGTCACCTTTGTAAGAGAGAAAATCGAATC [A/G] GCGCAGCACCAGCTAGCTTTGTTAATTTCAATGATCAATTAGCAGATGCATTTACTAAG
1048 CaSNP3005 CTTTTATAAAAATTATTAATAGTATAGGTGAATGAATATAGTGTTATGTATTTGTGCTTC [A/G] TAGGTGATGATCGTTAAATCTAAAGAGAATTTCTTTTATCTCTTTAGAAAGTTATTATCTT
1049 CaSNP3006 TAGATAAGACACATCATCGAAGGTCCTACCATCTCACCAATGATAGATGGAAGTTGTT [A/G] GTCTCCTTGTACCACCTATGTAACGCTGACAATAAGCCAACGCTCTATTAATTCGTAGC
1050 CaSNP3007 TTTATGAATCTCGTCTAGAAGTACAATCATTTGTCCTAACCAATTGGCAATTGGTTAATC [A/G] ACTGTCATGACTGATTAACGCTCATTTGAACTCTAAATCTCTGATAAGTAGGAAAAATAC
1051 CaSNP3008 ATCTTTCTACAATAATGTAAGATTTGATATTATCCTTCTACAGTCTATGCAGTTGATA [A/T] AACATTTCACTAGCAATATCATTATGTAATTGCTAGACCAAAGTTTTTGGGATGTCATGG
1052 CaSNP3009 TGATTCCCACCAGGTGTATCTTGAATTCACCTGTCCTGATTATAGTGAAGGAATTCCT [A/G] AGGTCTTCAATACAGATTTCATCTTGTCTCAGCCAATTTCTTTCATTCATAG
1053 CaSNP3010 ACTTATCAAGGGCTTTTATATATGTGTACTAGAATTTGGATTGTCTTCCGTAACCAATTT [T/C] GCGTATTCCTAGATTAACACATCGATAATTGTTGAATTGAGATTTAACGGTCTAAATTT
1054 CaSNP3011 ATCACATGCTCAACAGAAGCATGATGGTCTCACTAGATTGATAGATATTAAGACTAGATC [A/G] ATTGGTGTTAATTAAGGGTGTGCTCAACCCCTCCACCCTCAAATCTCGGTAATCTA
1055 CaSNP3012 GTTGTGCTGTTGAAAATATTGAGAGTAATTTTGTGCTGCTGGAATAGTGGTTATTGAT [A/G] CAAGTACTGAGGTCGAGGCGGAACTACTGATGAAACACATGAGGAAATGAAAATTTGTTG
1056 CaSNP3013 TATATAATATCATTAGAAAGTCCCTTACCTCGACAGTGTCTTATTACACAAGCAACATA [T/C] GATATGCCAGCATAACCGATCCGACGATTTCAACAACGCCTCTAAATTTCTTGTACCTT
1057 CaSNP3015 TCGCCCCGTCTTTATCTATCTATTTCAAATAAATAAACAATAGTGAGTCAACGATTCCTC [A/G] TGCCATCACAAAGTAAATCATAAGCATTGTAGAAATGATTTTGGAGACATATGTTGCCCT
1058 CaSNP3016 ACTAAAGACAAGGATTTACGAAGGCGAGATGCATATTCAGTAAGTTATTTCGAGTTTATTG [T/C] TGTCATGAAGTCTTTATCTTTTCTTATGTTGCGGAAATCTTCAATCGAGGTATGAGGT
1059 CaSNP3017 GAGGTCTGTTTCATGTGAACACGTAGAGACTGTCAATAAAGCAAAGTTTGAATTGTG [A/G] TCATTATCAGAGTTTATCTCGCTAAAAGAGGTAATCTTATAACTCTTATTCATGAGCATT
1060 CaSNP3018 AAGTATACCAGTATTGCTTTTTCTTCCCATCGTTGGCTTTTCTTCTTTTTGACCGTTTC [T/G] TTTTGGAGTATTGGCTTAGTCATTACATACCCACACACCATCTCGTTTTGCTCGAAATTT
1061 CaSNP3019 ACTTTACAAGCAAGAGGGTCATTGGAATTTGAAGAAAGGGTGAAGTTTCAGATTGTCCT [A/G] GCAACAACACTAGTCTCATTCCAGCATGGATGCTGCAACATCTCACTAACTAGGTTGACA
1062 CaSNP3020 AATCATTATCATCGTTACGAAATCAACCTCTAGTATAATTTTTCTAACCACAAGATGAA [A/T] CGTTATACCCTGAAAAGTTGATGATGCTAATTGTAATAATATTAATAAAATACATCATTG
1063 CaSNP3021 AACAAGGGTCTATTTTTTACTTGGAGAGGAAGCATGAGTTTGATCATCATAAGTGTGA [A/T] TAGATTGATGATGATGATGTTGTTGTTGATTTCATGACTAGGAAAGTTCCAATAATCTT
1064 CaSNP3022 TAAATAATAACATAATCACTATACGATGCATTTAGCCTATTAAGAAAACCAATCTGTCC [A/G] AACTTCTCCTATCTTACCAACAAGTTAATTCATTTACTTCTTGTTTTAAAGTTATTTGT
1065 CaSNP3023 TTTAATGAGAGGAGTCTCAACATCATGTTTGTGATAAGTCTTGAATAAGGATTTGTCTT [T/G] ATCTTTCATGATCTATATTGATTATTTAGGACCTCATAAGAGATATTCACATCAAACC
1066 CaSNP3024 GCACATACGCATATGATACGCTCCCAAAGACACACAAGTATTAACACTAGGCGTCTTC [T/C] ATTCCATGATTCAAGAGGGGTTGGTCTTTAACATTTGAAGTCGGATTCCATTTTGCCAA
1067 CaSNP3025 CAGTGTCTTATATTATGCTCTATGTATTTTTTAGTATATATTACAATAACGCTTTTAGTTT [A/T] AAAAAATGATCTTAAAGGTACGTCATAATATCTATATTTTAGTAAAAATAAACAAATATA
1068 CaSNP3026 CTTAGGTACTCAAATAGTAAGAGTACGAGTATTAAGTTGATATCTACGAAGATACTGAC [A/T] CATGTATGAGTATTTTTTTTAAATTGCGTATATAAAGATAAAATCTATAGTACTTTACTT
1069 CaSNP3027 TGGATACATCAAGAACGAATATTTTCAGGAAGTCTTCTTAAGTGTGCGTTGTAGGAA [A/C] TCAGCACAGATTGATGTTATAAATACAAAATGAGTTTACTGATATCAGTTATTGAATGGC
1070 CaSNP3028 TCCTAAAATCCTTCTTTTAGATGAACCTACTAGTGTCTTGTATGCTGAGTCAGAGTCTGC [A/C] GTCCAAAGGGCCATTGACAAGATTTGAGCAGGCAGAACCAACCATTGTCATTGCTCACAGG
1071 CaSNP3029 ATTACATTGATAAGAAAAATGACTCTCCAACAATGACTAAAGTTCAACTCACTAAATATG [T/C] ACACAAGTTCAATTTTGTATATTAGTATAGGGCCTTTAAACCAATGTCATCATTGATT
1072 CaSNP3030 AGTTGAAAACCAACAACGAGCCTTGGTTTTAAAGGCTTCTCTGAATTCGATAAAAGATC [T/G] AGTACCTGAAGGCACATCTGACTGCCGGATCCTTATTCTCTGTTTCAATTAACAAAATAAT
1073 CaSNP3031 TGTTTTGTATCATCAAAGAGAGAGATTGTTGGAACCAAGTTCAATCCAGGAACAATT [C/G] ATCTATGTGGTTTTGATGTTAAACAAAGGATTTTTGTGAGAATAACTTATTACACTAATGA
1074 CaSNP3032 CACAAGGAAATGCAATAGACAAGCATCCCAATTTCAATAAATTGAATTGCAGATTAAG [A/T] TGATGTCTACGTAAACTCACAGCAAAATCTTTGGGTACCAATTCACATTGTGACTAAGA
1075 CaSNP3033 ATCAAAATACAATAAGCAGGTTCAATATGTCTCATCAATTTTCAATACCAAAATCAATCA [A/C] AATTTAAAAAATTAAGCCAAATTAATTAACAATAAAAAATAAGGTTAAACCAAAACAAAT
1076 CaSNP3034 CTAATATATATTATAAGTTTAAATACATTAATTTTTGTTAATAAAATTTTATTCCAATTAT [T/C] TCTTTAGTTGATCTTAAAGAGTGAGGTTTTGTGATCATTGATGTAATTTGTACTTTTT

1077 CaSNP3035 TGGACAGAAAGAGTGTGGGTGACACAAAAGGTACTTAAAGTTAAATGCATGACTTCACA [T/C] TGACACGAGCATGTGTGCGAAGAACAACGGTTAAACATATTTGAAAATTTAAATGATGTC
1078 CaSNP3036 TATTGGAACACCTCCTACATTGATTGCTTACAGTGATGCTGATTAGACCGGGTGTCTTAA [T/C] GCTCGACGCTCTGTACCAGTTGGTGCATGTTTCTTGGTCTTCGTTGATTTTCATGGAAA
1079 CaSNP3037 AATATTCAAATTACATGTTGTCTTGTCTGTTAAACAATTATGTGATGCCATAACTTAAAGTTG [A/G] CACTCATTACTTGGTTGGTAGTTTTCCAGTCAGTTTGGGGTTTTTCACTTTTGGATCTGA
1080 CaSNP3038 GGGCCAATCTTTGAGGTATTACCCATTCCTTACCTTGTTCGCTAATCGCGTCCATGCGT [A/G] TAATTGACCAATCATATCCATCTAGGCATCCTCTCTTGCAAAATTATCAGCGACGTGCAC
1081 CaSNP3039 CATCTATGAACAATCCTAAATTTGCCCTCTCTAACACCATGATTGGTTTTGTCTGCAGTT [T/G] CCAATTTGACGACTCTGGTAACAGCGCGAAGCTAGTTGAATCTGTAGGGACCCAAAGTC
1082 CaSNP3040 ATTCAATTGCCTCGGATGTGAGAAAGTATAGTCCTAACCTACAACCTCAGTTTTGTGAA [T/G] ATTGTGCAGGGCCTAATCTAAATTTAAATTAATAGAAAGGAAGAACAATCTAATATTC
1083 CaSNP3041 ATTCAAAATAGCGATATACTCTGTTGTCATCTTAGAAGCCACTCTAATTTAGGTATAGTCA [T/C] ACATTCTATTATAAAATTTGAATCATTAGAATTAGGATCAAGTTCTCATTTTTAATTTGAT
1084 CaSNP3042 CGTTGCTGCAGAAGCTTAGTTTTGGAGCTTCTACAATTTGCGGTGAAAGAGAGAATTAGA [T/C] GCACGATTGAAGTCAGGAACCTGAAACCAAACACATGCTTAGTCAATGAGTAGCATTAGG
1085 CaSNP3043 GTCATAAACTATATCTTTAAGAATATCATCTAAGAAAGTTCTTGCAAAGAGAAAGATCAT [A/T] CAATCATTACAAATCACTTATTCTGTATCTTCCAATTTGTTCTACACTTAGTAATATTTG
1086 CaSNP3044 CTGAAATGCTTATCTTTTCTTCCCTTTGATTTTGCTATTATGTGCATGCTTTAGACATTA [T/G] GGTAAGGTGAGGACTATCCAAGCTTTCATAGTTTCCCTTAGATAACTTGGGCTGATTGAAT
1087 CaSNP3045 CCAACCCCTCGACATTCGCTCTCAGAGAGAACATTATATGACTATATGTATTCGTCCTCCG [A/G] AGTCAAGCCCTTAACCTATCACCCTTGCTCCATTTGCCACCCTTCTTCCCTCCATTATATC
1088 CaSNP3046 TGATACATTTGATTTCTTCTCAAATGAATGACACTTTGGTTGTCACAACATATGCAAACA [A/G] ACTCTTGTTTAAACCAAGTTCACTGATCAATCATCTCAGCCAAATTCCTTCCCTTTCACA
1089 CaSNP3047 AACTATATCCTTCTGATGTAGAACTCCACAACATACCAAATAACCAACTATAAACAAAA [T/C] TAAGTAATGACATTCGTTATTTAGTTTATGAAATATAACAAATCAAACCTCATGCATTTA
1090 CaSNP3048 TTCTGACCATTGTGTGTTTTGTTAAGAAATTTGTTGATCGTGATTATCTTATTATCTTGT [A/T] TATGTGGATGGCATGTTGATTGTTGGTCATGACGCTAAGAAGATTCAATATCTAGACAAA
1091 CaSNP3049 ATAGACAGAGGTAATCGTCAATACCAGAAATGCTGAATGAGCTTTGAACCGAAGACTTAT [T/C] GAGTGTGCCATAATCTTGCAAACAAAATCAATAGACAAATGATGAACTGAAGAAGCTA
1092 CaSNP3050 ATTCTTCTCTAGCCTCTTCAGGATATTATCGTTAAACCTTTATTCGACATTTTGACACT [T/C] TATCGTTAAGGTTTATAAGTATTGTTGTACCTCTTCAAAAACCTCTTAGGGTGAGAGAAT
1093 CaSNP3052 ACACAACAAGAAAAAGCTGAAGCAAAGAATCAGGTGCTTGAAAGTACAGAAGCCACTGCC [T/G] ATGAAATTAATGTGCAGGGTACAGAAAATTTGTGAAGCGGCACCCCTCTCAGCTGACCAGC
1094 CaSNP3053 AGTACATGCATCTGAATCGTAACGCGGCTTTGGTGGTCCCTGACTAATACCACGTGTTCT [A/T] TTTTCCCGTAAAGAGACCATTGACTCAGGTCTCGGTTGAATCTCCGCCGTAGGATTTTCC
1095 CaSNP3054 TTTTTAAATTTACACACTAACATACTCTATGTTCCAACAATCCCTCACTTCAATTTAAAA [A/T] AGTGTCTTCAAATAGCGTCAAACGCTTCTATAAGATCGTGTTTAAGCAGAGGTGATCT
1096 CaSNP3055 GTATACATTTGTTGATGTGGTGGTCAAGTCTCAGAGCATCCAATGCCATCTAGTGGAGCAC [A/T] AGTACTTATGAAGGCTATGGCTAACGCACTAGTACTTATGCCACCAATTTCTAGGTAAACC
1097 CaSNP3056 TTTCTCTTTCGAAAGAGTCAGTTAAAAAATTAGATACAAATTTTATGAGTAGGGATATAC [T/G] AGATTATAAGGCCAAAACAAATGAAATGCTAAACTGCGAGAAAAATTCATTTTAAACCT
1098 CaSNP3057 TGGTTATGTTAGTAGAAAAAAGAGAGAATAAAGTTGTAGAACTGGAAAGTAAAAGGG [T/G] GATAACTGCCCTCTGAAAGAGAGAATGTTGGAGAGATCTTAAAAAGAAATATGTGTGAGT
1099 CaSNP3058 CAAAAATGTATATATCCATACATAACAAAAACAAATATTATGTGTAATCTATTTTCAATTT [C/G] TTAAGTATCTCATCTTCTTCACTAATTTCTTGTGATTTGTACAATGAAGATCAGAAACCTCA
1100 CaSNP3059 AAAAGGGAAATCAGGTAGAAAAATCATTTGCACCTATACAAAAGAACTCTGGGGTGCC [A/G] CTCTCAATTTAAGGCATATTAACCTCTTATTCTGTGTTTGTCCAAGTTAGATCTAGTAGA
1101 CaSNP3061 TAGCCATTAACAAAACCTGTGCTGAAAACAGAGAAGTTATCCGTTTGTGACTGAAAACA [A/G] AGATCATTCTCCATTTGTGGTTGCCAACAACTAGTCTGCATCTGAGTTTACGAAAGACA
1102 CaSNP3062 CTAATGTTGTCACATCTTAGTGGGATGCATTCGAGATCAAGTCCATAGTCACATAGTTGT [A/T] GCTTGAGCCATATAAATTTGTGCACAACAGTTGTCTGCTACTAGTGTATTTCTGCTTCAACA
1103 CaSNP3063 CTAAGTCTGATCATTTTTCAATTTGCTCTGAACTGATCACTATTCATATGCCTCTGACT [T/C] AGATCACTGTTTATATGCCTCTGATAAAGTTCATTTGCTCTGACTCTGATCACTGGTC
1104 CaSNP3064 GGAGTAATAAAAAATGACAAATGATACTTTTGTGAAATAAAATACAAAGTATTATGCATT [C/G] AGGGTCGGGAATTAGCAACCTAAAAGCACAATGTATCTTTTAAAAATAAGAATCTAACA
1105 CaSNP3065 TGGTATGATCGACCTGTGTTCTTATAGTTGGATGTAAAAGTGTACTATGTGTACAATCCT [T/G] ATGGTTAAAATACTCAATTCATCTATGTTTACATCGTCAAGCCTCCATAATTCCTTAAAC
1106 CaSNP3066 GTAATGGCGGATCCAGTTTTCTGTCCAGCCCTACCAATGACTACATGATAATTAACACC [T/C] TGTGTAGTCATGATTGTATCACACATCATTGACTTGAATTTTACCCAACTAAAATTGAT

1107 CaSNP3067 TATTTTATATTATTAGACTAATGAAAATTATTGTTGGTTTGGGATAACGAAAACGTAAC [A/T] ATAACATAAGAATAAAAAATGAGAGTATATAACAACACAACCTTTGAGTTAATGGAAACAAA
1108 CaSNP3068 TAGCCTTAATTACCATTAAGTCAAAAGCCATGTTATTTACCTTTTGTGTAAAACACAGAC [A/T] ACAGATTAATGTTGGATACTTCATGGACTTTTGAATACTACTTAAATTGTATTTTTGTTTT
1109 CaSNP3069 TAGGTAGAGGTACAGAGAGACCAAGAAAACGACAGACCAAAACCATCAGAGATTTAGAGG [T/C] AAATAGGCTATCTTTATACTCCATACTTGGTAGGATTTTATTGCGTTGATTGACTATGTA
1110 CaSNP3070 ATTCCTACAGATACGACACAAGTTGCTGACAACGCAACATAATTAACCTCCAAGCTTAGTT [T/C] CTGTTGGGAAAAACCAGAGATAATAGCAATAATTATCTCAATAATGCGGAATATTTTTT
1111 CaSNP3071 TGAATGAAGATTGTTTTATTGATGGTTTCACATGACGGGGTATGCTAATCAGGGACCATA [A/G] AGGCACGGTTATGGTCTCAGCTTGCAAGGAAGATATCCAAAACGAGTCCAGCCTTGG
1112 CaSNP3072 TAATTATTTAAGTAATTTGATGACTAAATTGAAATATAATAAAGTCAAGTCAACACAAAACA [T/C] AATGGTTTACTTTTCAATAATAAATACTAAATTTTACATTTTATTCTAGCATATTAT
1113 CaSNP3073 TGTTTCGTGTCGGTGTCAATGTTTCATAGGAAAAAGAGGACTGGATCTATCTAGGTATGG [T/C] ACTAGGAAACAGTGACCATATAATGTTTCAATCAATGCTTTAGCAGAAAACATATAGAT
1114 CaSNP3074 GTTGAAAATTCGAGGAATGACTAAAAGTCAACTTTTTAAAAATAGGAGACCAATTTTCGT [A/G] AATCAATATAAAATAGAGGGACTAAAAGTGAAGTCAAAATCTAAAATAACTTAATAA
1115 CaSNP3075 TTTTACCCTAGTATTTGAGAATAACAGTTCGCAACGGATACATATCCACCTTGGTAGTT [A/G] ATAAGACAATGGTATTTTGTGTATTGCATGACCAATTGATGAGTGCTTGATCGAGAAATT
1116 CaSNP3076 TTGTAACCTCCAACATGCTAACAGCAATTGATATTTTACTATGCCCTTGTCTCTCTCA [T/G] ATATCCGAAATAACTCCTCCAGAGTTCTATAATTAACCTCCCTATGCTCGGGCGTTCCCT
1117 CaSNP3077 CCCTTCTTGATTTGTTCCCTCTACCTCTCCCTGCCATGCAACATCTGTTATTTCTTAG [A/C] TGGAATTTCTCTCTTCTCCACCGTTATTAGTTGGGTTGGTTCCCAATCTTTAATCA
1118 CaSNP3078 ATGTTATGAATTGGACTGTTCAGTTTTAGTGGCCATGAGAGCCACAATCCTTGTGTG [A/G] TTGATAACTTTAAGTGTTCCTGTGATGGTGGGATACATTTTTAGTCTCAGTACTGGAA
1119 CaSNP3079 AGTCCTAATATTTAACTATAGCTTAATATATTTTTGCATGTTTCATCTCTTAAACATAT [A/G] ACATTTCTTAAAGTAAATCACCAAAATATTTTCCAACTATGTAAGACGCTCTCAATTTAGT
1120 CaSNP3080 TATGTGTGTGAGTTTCACAATAAAAAATAATGAATATGAATCATAGTTTGTAGTAAATA [A/G] ACAGGTGCTGCTGACGAAATAAATCTTGTAATTTAGACTATAGTGTTTAAATACAGTTAT
1121 CaSNP3081 GCGCCGAATACTAAATGTGTATTTTGACATGTAGCGATTCAAACCTCGAGTTTACCAGATT [A/C] TGAGAATCTTGACTCTCCACTAGACCTAACCCCGTTGGTAAGATCATGGCAATATATAA
1122 CaSNP3082 ACTAAGGATGCTACAAAATAAATTAATTTTACTTATAGGTACCCAAATATGTTGGTTCC [A/G] GTTTCTTAGTTCTTAAAGGTATCTTGTCTTTCAATATTTTCAGCATAGGACAAGTTATTC
1123 CaSNP3083 ACCGTGCAGATTTTGATCAGCTCTCGACAGATTAACATTTTGTGATCCAAGCACTGAAC [A/G] TAAGCAAGATGACATCGACATGAGTTACACACGAGGGTCCGGAGGTGTCGTCCGGACAAT
1124 CaSNP3084 TATGGTAAACAAAATTTGGGTATAGCGGATAAAAGAAATAGGGGTATCAAACAAGAAATG [A/G] TATTGACTAGATTGTAACAAAATTTATGATGATAAATGATGTTTAAATCTATTTAGTTGA
1125 CaSNP3086 CACTCCATGTCTCTCTCAAGACAACCTTGATATCTTCTAACTAAAAGGCTAAACAACA [A/G] CAACTTTGAAAGAATCGTATCCAAGCTGGAAATGAGAACATCTATTACCAGCTTGAGG
1126 CaSNP3087 CTCATTGCAATATGATATATTATCCACTCAATTTTTCTTCACTTTTTACACAATCATC [T/C] GGATGTGGATCTTCCCACCAACCCTCTTTACACTCTCTATCTCACCTCATTTTGGTT
1127 CaSNP3088 GATCTTTCATTTGATATTACATATAAAAAATCAGCCACATCTAATGTAATCACCTAAGAA [A/G] CAAAATAAGTGGAAATTAATATGCTGCATAATCTTATCTACTGGTATGATCACTTGTGAG
1128 CaSNP3089 ACTTCGTGAGCTTCAAATGGATCTTTATTGCGGAAATCGGAACCTCTAGGTACAAAA [T/C] TTAAGCATAGCGCCACGACAGGTGATGTTGATGACTAATGAATCTGTGCGGCGCGTT
1129 CaSNP3090 AAATGATGTGTATGATAGTGTAGCAATGTGACATGGCAAGTGCTAACATGTGGCAATAAG [T/G] GAATGGATACATGTCTAATAATGATATGGTATGCTAATAATGGCTCGCCTTCAACCTTGGAA
1130 CaSNP3091 GAAGATGATAATGATATACATGGTATGGGCTTCTACAAAAATCAATTTGGCAAAGAATT [T/G] ATCCTAAGTTTGTCTTGATAAATACCTTGTGAAAGAGTGTGAACCTTATTTGTCATGT
1131 CaSNP3092 TTTTTGATTGGATCTAATTTGATGAGAAGGGTTAGGAATTAAGTCAACCGGTTTGGTCC [A/G] CTGTAATTTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
1132 CaSNP3093 GTAACTAAAGCCACTATTGGGTTGGGTTACAAGGGGTGACTGTTTCTTTTTTGGCT [T/C] TTCTAAGAAGATTTGTTACAATGATTACACATATAAATGAATCAGTAAGCATCAAATAA
1133 CaSNP3094 ATATTCTATAATGGACTATCATACATTACAAGAATGACAATAGATGCTACTGCAGGAGGA [A/T] CACTGATGAACAAGAAGTAAAAAACAATATGCTCTAACTTAAGCATGTCACAAGATTT
1134 CaSNP3095 GTGGACAAACCATAAATATGTCATGGTTCAAAGCATGAAATTTACAGAAGTCTGAAGCC [A/T] CGTTAATCTATTAGAATGAAGTCAATTTGGTCCACCAGCAGCATAGCATTCATAGCCGAAC
1135 CaSNP3096 TAGTATTAATATCACACAATTTAAGCAACAGACTTAGCACTACCACCTTTATTTCTATCTC [T/C] AATTGATCCTTTGTGTACCAATTTGCTGCTAAAACAAGTATTTATGTTTCTGCATACTCACC
1136 CaSNP3097 ATTCATCAATAACCCATTAATTAATTTCTTCTTTTTTCTTTTTTGTCTTCTTCTACTATT [A/T] CATTTAATTGCTAGGATCTTTTCTGTTACCGAACCTCCATGCATTTGTCAAATTCAAAAC

1137 CaSNP3098 AATAGAAAGACAATGGCGTTGATCAGTCAATGCTTGGATCTTAGTGTGTATCCACATGCT [A/G] AACTGAAATAGATGCTAACAAGATGTTGGAAAAATAAAAGAGTTGTATTAACGAAAGA
1138 CaSNP3099 CGATGATGACCTGAGCGAGATCTCTTTAACAAGATGAAGCTCCACCACATCAAGATACTG [T/C] GATAGCTTCTCTGCAACACGGCGTTCTCGGAGAACGTGGAGAACGGACAGGCAGCACGG
1139 CaSNP3100 ACACTTGTGAGATTTACTAATGTTCAAACGATCAACCTGTACAGAGGATGATTACAC [A/T] TTGTGATTATTTAGCTTCCACCAAGCTTACAATCAAGTTTCAACTATTTCCAAGTGTAAAC
1140 CaSNP3102 AGGTGATGTGTAATTCAGAAAAATTGAATTAGTTGTTAAATCCTTATAAGTGAAGGGACT [A/G] GAGATAGCTACCAAGTTGGTGGTGAACCAGGATAAAATAGCTTGTGTCACTTTACTCTGA
1141 CaSNP3103 GAATTTTTTATCCTAATTGTGAAATATCAAAACATAAAATTTGATTTCCAAGGCGCAGAGG [A/G] TAATAAAGATCGATGGTGAAGATAATTAGCGAATAATGAATAATATAATAATAATTT
1142 CaSNP3104 AATGAAGTTAGTGTGCACTCTGCCTGCAAACTGATCACCCAACCTTTTCATTGTAAAAC [A/C] TAACATCATACCGGTATTATATCTTTTTATTACTACCATGTCTTAAGTGTAAACAAAA
1143 CaSNP3105 TCTCCCTTTTCTCTCCCAAAATGTCATATCTGCAACCGGCTTCATTTAATGTCTCCTAT [T/C] GTATACTTTTGGTGCATAAAATTTCTCTTTGGCCACAATAAACTGCATATCTTGAATTA
1144 CaSNP3106 GATAAGTGGATGGGTCTATGCTAGAGGAGATAGAGTCCCTTAGAGAAAACTAGACATGA [A/G] AGCTGTTTAGATTACTAGAGGGAAAAGGGCTATTAGTTGCAAGTGAAGTGTATAAGAGATA
1145 CaSNP3107 GATTTGATTTGGGCGTGAACAATTTGGGCTTGTCTTGGACCTTAAGAAGTAAAGATAC [A/G] TATAAGTCCAATTCATATGTTTCTCAATCTATTAGAGCCTTTGACCTACCGTAAGAGTC
1146 CaSNP3108 GCAACTAAATGAAACTTTATGTTAATATACACAAAGTAAATGATTAGAAACCGATGCGA [A/T] CTATATATGAGTAAATGAATAAGTCTCATTAGTGATATCACAAAGTCTCATAAAGTAATT
1147 CaSNP3109 ATACAAACAAGGAAAAGATTTGTCATTCATTGGTTGTATACACTTATTAGCAGCATCTTA [A/T] AAGCAGTAGCAATGTTCCAAATTAGTGGGATACACACAGAGGTAATAATGCCATACGCAA
1148 CaSNP3110 AGAAATAAAGCATGGTATAAATCGTCTCATGTACAATTCAACAACAACCGGTAGCTAC [A/G] CCCAATGCTTCAAATTGAAGGATTTAACGCACAACCTACCAACTAAATTCATGTCCAT
1149 CaSNP3111 TAGTTCATTTGAGGAGTTAATTGATAAATGTTGTTGATTCATTTCTTTGAGTTAATAAA [A/C] TGTTTATGTTCTTATTTCTTTGATTAAGTAGTGATTTTTCGTAGTTTTACGTGGCTTCGT
1150 CaSNP3112 TGTTTAATCAAGTTATGACTTTTATAGGCCATCAACAGTTCAAATGTTAGAGTACGAAT [A/G] TACCATGGCGACATGTTTGTAAATAATCCTTGCAAATTAATGTTCAAGGTCAAGTTGAT
1151 CaSNP3113 TTTCTAATATATGGTGAATCGGAATATGCTACCTTGTTCGCTTTTTACTTTATAGATG [A/G] CTGTGATGATCAAAATTTGGATGACAATGCTTCCAAAATGGTTGCTTTAGCCGTTGTTCA
1152 CaSNP3114 CACCCTTGTACTTAACCCTAATATTTATTCAAGTCTAAGAGATTTTCATTTTATGAGA [A/G] CATAACTTTGTAAACACACACTTGTGAGAGTCTTCTAAAAAACCCATAAACACATCTTG
1153 CaSNP3115 TGGATGCAATGAATCTGGGCATATCAAGCCAGAATGTCCAAATCTCGAAAGAGGAAAACA [A/T] TCGAGGAAAGATTCCAGACCCAAGAAGAAGAGTCTGATGACTACATATGATGATTCTGAT
1154 CaSNP3116 CACATCCCCTTGCCCAATCATCAATCAAGTAATGGCTGTGAACCTAAAGAAACCGATGT [T/C] ACTAACATCTTAGGGATTGGTGGGGTGACTCGGAGTGGTCCGAGTATACACTCTTGAACAA
1155 CaSNP3117 ATAGATCCCTTAATTCACCCGAGACACATATATGCGACAATCGAGGTAAACGTGTGTTG [A/C] ATGGTAGCTCTCGATATTTGGAGTGTACTCCAAAGTACCTAGGAATCCCCACTTGAA
1156 CaSNP3118 ACTCCTGTTAATTGAACAAATCAAGACATAATAAGTACTTGGATTAGTTGACATAGGAA [A/T] GTAAATCGTACATTGAAGAATTAGAGAAGTTTTCAACTAACCAATAAAGCACCGTCAGG
1157 CaSNP3119 GTTCAGCACTCCGTGCTGCTATCCAATGTTAACAACATAGTATGGAAAGACTATGCTCAAG [A/G] AAAATCTAGTCCCTTTTCTGGTGTCAAAAATAACGTCTGAACTGGCTTACCAATTTGTAATC
1158 CaSNP3120 TAAGTCTCAATGAAATGAGCAAAGCTAGAGTACTTAGGCTCCCACCCTATTTCTGACG [A/T] GTTTTCGAGTTGTTAATCTCTTACCAAGAGGATCATCAGTTCCTGCAAACCAAATTTAC
1159 CaSNP3121 GGGTTCAATTTCCACGGAAGCAAAAACCTCATTTTTCTATAGAGAGGAAAAGGTGAGAA [A/G] GTCACGATTAACATTGTGCGATAACAGTAAGGGTGGGCTGTTACATGAAGCACCCATATA
1160 CaSNP3122 GAACATTTCTGTGGATATGTTTATATGTTGGGAATGATATGTCAACAAGGATTGATTGC [T/C] TCTCAATCACCCCTGCACCACTTCTTGAGATGATCCTTGATCTTTGGGATTCAACTATT
1161 CaSNP3123 GAATGGGGAAAGAGGTTGAGGATGTGGAAGAGGGTGAATTTCTGATACTGCTTCTGTGG [A/T] AGAGATTAGTGAAGAGGATTTCAATAAGCAAGATGTTGTTAAGGTGAATAATAATAGTGA
1162 CaSNP3124 TAGTTCAAACTTTTGAATTTGGGTTTCATGTAATTTACAGTCTTCTATGCTTCTTATTCT [A/G] GTTAATGGACATCTACTGGATATTTTTCTTTGTAAGCATGGGTTATGGCAAGGAGATCAT
1163 CaSNP3125 CATTGTTATAGTCATCTTGTAAAAGCAACTACTCAAGTTCCAAACATTTGTATTCAAAC [T/C] CGACAGTGGTGTAGTGTGCCTTAAACAATTTGTGGTTGTCATATTTGTGTGGAGAAGACC
1164 CaSNP3126 AAGGAAGCGATCATCATGTGAGACGTTACTGAGTGAACCTAGCGGCCCTTCTTTGTT [C/G] CTTCTGTCTTGTGGGTTGTGGCAGTTGATTATGCATTTTGATTCAGCTGTTATAGCCA
1165 CaSNP3127 GGGTTAGCCTTGGTGCATCTCATGAGGCACGGCCATGGCATGCACACGTCCTTATTATGT [A/C] CCATCCCAATCATTAGTAGGTACAGAATATTTGGTCAAGACCACACCTAAATTTGGG
1166 CaSNP3128 TACTTTTGTATCATCCAACAGAATGAACTTTTCAAGTTGAGTTGTAGTCTTTTCTATCT [A/G] CTCACGTTACTTCCAAAATATGTTAATTTTACTAAGGAAAGTCTAAAGTGTTTGTTGCAC

1167 CaSNP3129 TAGCAGCCTAAGGCCCTAGGTGTAGACTTTGTCTAGTTTGAAGCGGGAACATCCTCAAAA [T/G] CCCAACGACATGCAAAATCGAACAACTCTATAAGGTTCAAATTCAAAGCTAACAAATAACTAG
1168 CaSNP3130 AAAGTGAAAGTGAAAGTGAAAGTTGAAGTGGGCCACGTGGTGTAAATGTATTATCTGTAT [T/C] CTGTACTGTAGCATCTGCGAGGGTTTGGAAATCGTTGGATCATGGGTTCCACTCTACCATC
1169 CaSNP3131 TCGAAATGGTATGTCACGTCGTTCCGAACAAGGTTCAACTCTAGAATGTTGTGCTGGAAT [A/C] GGTACGCTCCAAAAATCAACTTGTAGACATTTTAAACAAAACCTCTACAACCTGATCGTTG
1170 CaSNP3132 GAAGCAAAGAGGATCGACATCATCACTGAGATTGTTAAGGAATTTGAACTGTTTACAAT [A/T] CTTTGACTGATACAGAGCTTGTGTGTTACTTCAGTGGTGAAGTTGGAGTCACAGCATT
1171 CaSNP3133 TCCTTTTGCAGAGAAGAAAATAAATTTAAATCCTAGATTTTGTATGCGCATTCAATTT [A/T] TACAAAGTGACAACCAATGATGTAGGAGCAGGAAAAGGGAGTTAAGCCTGTAAGAGCTG
1172 CaSNP3134 TTGGTACGTGGGAGGCATCCATAGTTGGTACACGGTATGCAACTCTTGAAGAATTGGGTA [T/C] GAGGGAGTCATACATAATCAGTGCCTTATTGAGTTTGTGGTATGTTCTAATAATATAAT
1173 CaSNP3135 ATTACTGAAATGCAAGATAGTACTGATATGTTTTCTCTTTACTTTGTTGATGTAGCGTC [T/C] GTGACTTTGCTGACTGTGCCAGCAGTGTATGAAAAGCATCAAGATATTATAGATATCCTT
1174 CaSNP3136 AAATCCTAACTATTGAATCGGGAACATAACAATACCAACCTATCAGCCTTAGAAATCTCC [T/G] GATAGTTTACCCTTTTGAATGTGCCGTTTACATCACCCTAACAACTGGGTTTATATATC
1175 CaSNP3137 TATGCATATCATATTATGTAGTAGAATTAGTTTTGCTTATTGCATTTAGCTTATAACTTA [A/T] ATAAAATTGACAACCTTGTGTGGTTCAAACACATGTATCACCACCTCATGCCTCTGTTCTC
1176 CaSNP3138 ATATTAAGTCTAAACTCTGTATAAACATCATTAAGTGTAGCTCATTACAAATCAATTCAA [T/C] GAGAATCTGTTTCATAGATGTCCAAGGAATTGAAAATTACTTTTATCATAGATAGGATGT
1177 CaSNP3140 AACTGAAAAATATTCACATTACATTCAATACGATTTGGATCTATTCAAATATGAGAGAGT [A/G] ATATTCTCGTTTTACTATTAAAATATATTCATCTTACTTATTAAGTTAAAATTTTTAAT
1178 CaSNP3141 ACGGCAATGGTAGTTTGGACCAGGAAGCTGCGTCGAATAAAAATGCTACTATGCGAAGAAA [T/C] TGAGAAGCCTGCAGTTAACAAACAGAGGAACCAGCTTAATAACAGTTTCTACTTCCCCTTC
1179 CaSNP3142 ACTTAAAAATGAATAGCCTAAATAATGGAAAGACTAATCTTGAGAAGTACATTCCTGTTT [T/G] TATCCGAAATTCAGTAACACTCTCAACTCAATTAAGGAAATAATATTTACTAAGAAGGAG
1180 CaSNP3143 GAGCATGAATAAAAAAGAGAAAATAAGAAATGAGAGATAGCACACAAGAATTTATATTGGTT [A/T] AGCTACTAATAACCTAAGGTCTATGCCATGTAAATTAGACATTTTCATCTATTTGATATGC
1181 CaSNP3144 CTAATTAGAGTGTGATCGCTAACAACTAATTTGATTAAGAATATGTAAGGGTGTCAATC [T/C] GAACATGTGATTAGAACAATAAGAAAATGAATGAAACAATAAAAAGTAATTAATAATAA
1182 CaSNP3145 TTAAGTTTGTAGTTGTGATTAACTCATATGTAATGACTAAATTTGGACAGGATAGCCAAA [T/G] GACTCTTCAATAGAAAATACCAAAATATGTACAAATGAACTCCAATTCAAAGTTTATAAA
1183 CaSNP3146 CAACAAAAGATGTTGTTTTTCTATTACGAAAAATGTTGCCAACGTTCTAAAGATAGTT [A/G] TTGTCACGAAAAATGTTGCCAACGTTCTAAACTGTTCCACTTGTTCACAAAAGAAGGTGAA
1184 CaSNP3147 TTGATCTTGTAGTCGCTTAAGTGCACAATATTACCATCTTTCAACCGACCTTGGTATAC [A/G] TAACTACTTCTCTACTCCGATCAGGTTGGAAGCTGAAAAGTTATCAGTGGCACTTTCC
1185 CaSNP3148 TTACCTGTGAAACATCAGTAGGAGAAGCAGAAAGATAAGACAAATCGACAGAGTATCAA [T/G] AGTAGTATCATGATCGCATCCTGCCACCTGACAGCCAAAAATACCATTCAATTTTCAGA
1186 CaSNP3149 CTTCCATTTTTAGTATAACATGTGTAGGTTATTATACTTGTTTTTGGTGTATGATTCTT [A/G] ATGATTATTTATGGTTTTTGATACTTGATATTTGAATCTTGGTGTCTATGTTATTATTCT
1187 CaSNP3150 ATTTTTTATTTGAAAATTAAGCTTTGCAACATGATTAACTTTTAAAATTTGTGCAAAAACA [T/C] CATAATATTTAGAGTCATTTGGATAAAAATGAATAGTAAGAATTATATAAAAACAATTAACC
1188 CaSNP3152 ACTAGTTAATAGTAGCTAAAGTAAATACTTCCTAACCCACAGAATCAAAATCCCAGTACT [A/G] ATGGCCAGTGTAGTCAATCTACTTAGCAGAAAATAGCAGCTTGTTCAAATATGCGTTAC
1189 CaSNP3153 AATTTTGAGAATGCTTCGACATATGCTTCAAATGATTTGACACATATACATATGAGTGG [A/G] ACCGAGTTGATGTGATTGCAAAAAGCAGTTGAAGAAGATCTTCGGAATTGCTCTAAAATGT
1190 CaSNP3154 CTTTTTCAATTAGTAGACATTTTATCACGTCACTTTTTTTTGGATACTATTATAAATCAC [T/C] ACTGAGTTGTTAAAATCTAAAACCTAATATCAAGTTAAACTCTAATGAGTTCATATTAT
1191 CaSNP3155 TTATAAAAAGAAAAACCAATATAATAAAAATGATAATTTTTTTTTAACCTAAAATTAATCT [T/C] AAATGTTTTCAGTCTTATTTCTAAAACCTAAAATCGCATCTTCTTCTTCTCATCGTTT
1192 CaSNP3157 GTATATACTTATTTGTATTGTTGTATAACTCATACCAGACACAATGAAAACATGCCTAT [A/C] CTAATTAGTAAACATACAGAAGATGAAGCATGTGAGACAAATGAACTAAGTATTCAATGCA
1193 CaSNP3158 ACCAATGTAGCAAGAACGATAAAAATAGAGAACAGACATAAAATTCATTTAGAGTTGAAAA [A/C] GATGATACAATGCCAACGCTTCTCAAATGCCTTTGTAAATGGCAATATAATGGATCCT
1194 CaSNP3159 TTTAAGTAATGATTTGGATAGAAAATTTGGAGCGTTACATTATGGTATTTAAAGCAGGTAT [A/G] TCCAATCAGACCGAGTGGTCAAGTGTCTCTTAAGTGTCAATAAGATGTTAGTTGTAGTC
1195 CaSNP3160 ATTACCATAAGTTAACATTTATACAGAAAGTCCATGCCTCACTTCTACTAGTTCAAGGA [T/G] AGGTTCTGCATTGATGAAACAGCTATTATGTCTGAATAACACCAAAATTCAAATTTAAT
1196 CaSNP3161 ATCTTACAGGTTGCTTCCACTGTCATCGACTACGAATTTCTCACTTACGGCCATCAAAGA [C/G] ACTCCGATCAGTATCGTCAGACAATTTCCAGGTAACAGCCATCTCTTGAATCATTTCTG

1197 CaSNP3162 TTAATAATCGAATATTAATTTAAATTTTTGATTGAGTTATCTACACTTTCGAAGAGTAA [A/G] ATTAATATGGTGATTATCTGTTGTTATTAAGTTAATATTTTTTTGTATATTCATTCTAT
1198 CaSNP3163 TGATTGATTAGTGAAATGAATATATTGAAACACCAATGTCGAACACAACAGTAACACATT [A/G] ACACCGATAATAAAAATCATTGAATGTAACACTTGAGGTAGACACCAAAGTCACCATCG
1199 CaSNP3164 GTTTGTATATGTGAATTTAATTTCTAAAGTTATTGTGACCGATATAAGACAATTTGTCG [A/C] TATAAGACAATTTGAATTTAATTTCTACTTCAATTAATTTGCTATATCGTTTTTCATATTGA
1200 CaSNP3165 ATTAAGTGTCTCGTTTTCTATAGTTGGTCAACCTGGTAGCTAACCTACAGGAGATGCTAC [A/G] AACTTAACACAACAAAATTTTATGGCTACTTTTTTTAATAATAATATGGTGTGGGTTTA
1201 CaSNP3166 TTGTTAGCTCTTTTTGTAATTGAATGGTTGCCTTATACAATCTATTTATGTAGTACTCACA [A/G] CTCTAGAAGATGCAGCTGGAGTGACTCAGGCAGTGGCTGGAGAGGTACCCATCCCAATCG
1202 CaSNP3167 TCTATTTGTGCTTGCAAAGGCACATCTAGTGGTGCATTTGACAATAATTAGTTTTGATT [A/G] TCAGTATGTTGAGAGGAAAATGTCAAGAAATGCTAATCGGAAAGACTCGAAAGACAAATT
1203 CaSNP3168 GGACTTGGAGATTTTGATATAAAGTGAATGATTTCAACAATGGAGTCAATAGCGATGCT [A/G] TTAGTCTTTGACTAGTATATGGCCTTAAGTATGAGTTAATGGTGTGTCTCCCTTGT
1204 CaSNP3169 AAATAGAATAAAAAACAATATCACTAAGAGAAAATGATAACTTCTTTTGCTAGGAAAAGT [A/G] ACATACATCACAATGTGACAAAATTCATAGGAAAGATCATATAATTGTTCTTGGTTATATT
1205 CaSNP3170 GTTAATATATACTTTTTTTTTCTTTTCAGGAAATGGATATAGAATCGCCAATAGATGGTAG [A/C] CGTTCATCTAAGTCCAGCCACCAACCTGATGATCGTGGAAACAACATCATTAGGGACTAAG
1206 CaSNP3171 GAAACATGGTTGGTCTTGATGGAACCCGCATATGTGAAACCACGATTCAAGGACGCA [T/C] ACACATATGTTGCTGCTGATAATGCAAGTAATTCATAAACATTCGAGATGCCAACCCCTT
1207 CaSNP3172 TCCCCATTACACGAAATTTGTGAGAACATATTAAGTATTTCAAGCTAGTCTATACAAAC [T/C] AGACTTAGATGGAAGAATGATGAGATGGTCTTGTTAAGATAAACTCTCAAATTAAGTTT
1208 CaSNP3173 ATAGTCACTCGCTAAAGTAAGTTTTATAACTATTCAATAAAGAGAAAATATTATTTTGAC [A/T] CCGGTATTTGAACATAAGATTTAGGGCATTGATGTAGATACAGTACACAAAATTTAT
1209 CaSNP3174 TAAATGAGGCTATCATCTTGAAGGACCTTATTTCTCGTGCCTTATTTGAAAGGCTAGGA [A/C] ATACCTCTACACATAGGTTAAAAATAAGGAGACAATGGATCCCCTAGACGAAAACCTC
1210 CaSNP3175 CTCTGATGTATAAATTCAGCATCTTGTGATGGTGAACAGGGTTATAGTTCCTAATTTTTTC [T/C] CCTTCATTCTTGATGATATACCTCAACTTCAATCTTATCTGCAAATTTGTGTAATTTATTC
1211 CaSNP3176 TCCAGCGCAACACACATCTCTCGTCAATCATCGTTCACAACATCATTCCCTTCTGAGCGT [T/C] GGCTTCATTGTCGCTCCTTGCCTTGTGATCTCATCGTTACTACTACTTAGGTTCTTTT
1212 CaSNP3177 AAACTAATTGATAGTAACCATGGTGGAGGGACTCTTGTGTTTCGAGTTTTGCTGAGAGC [A/G] GAAATCAAGGAAGAAGCGATCAAGGTGCGGCAACGTGGAGACCGACTCGTCTAATGATG
1213 CaSNP3178 CTCGGTTTACTTAATGTGCGTTTGAGGAAAATGTTAAGTTAACTGGGCGTTGAGAAATGG [A/G] GAATCTCTTAATGTCTCGGTTACTTAACATATATTTTTGAAAATCGTTTCAGTAAATGAG
1214 CaSNP3179 GGTCTACAATACTCACAATATATTGTTTATATCAACACATTTTTAGCTTTATGCCTATTTG [C/G] CTCTCAACCAAAGCTCGAAATGTTTGAAGTCTATATCATATGGCCTTTTGTCTTCAA
1215 CaSNP3180 GTTTTGCCTTGTACTTTGTTTTAGTGCAGTGCTGAATTTGGTGAAGAAATCAACATGAC [A/C] TGTGTGGAGTAATTCATCCATATCTAGAGTTTTATATGTCCAATTTGGAGTCAAACCAAGA
1216 CaSNP3181 TTGGTAACTTTTATGTACATAAATGATCACATTAACAAAAGAGAAGCCACTAGCAATTAG [T/G] ATATCCACTAGCAAATAGTAAATCACCCACTATCGAATGTCGTAGATATTAAGAATAT
1217 CaSNP3182 TCTACAAACCGCAAATTAGTCGAAATTAGACGCAACCATTACAATTTAAAGCAACTACTC [A/C] TAGGTCTAGAGGAGTCCAAGAGATGGATAGTTAAATCGAGAGGAATCCAAGAGATAGATA
1218 CaSNP3183 CTCCACTGATATGTCATCGGTCATCTGATACTTAATGAAGCATCTCACAATATACTTTTT [A/G] GCCCAACTTCTCGGTATCATATATCTTCTTCAAACATCCCAATCATCTATAGCAGTA
1219 CaSNP3184 ATTAATAATATTTTCTATTTTTAAATTTTATCAACTAGGTAATCACTTAGTAAGCATT [T/C] CATATTCAGTAGTTGTTCTATATTCGATAGCAATTTATATTCGGTAGCCGTTCAATTAG
1220 CaSNP3185 GTTTCACCTACTTGGCACAATTTGGTGGTTTTTCCGATTTCCATTTGATTCTGGTGTGTA [T/C] GTTAACATTGTTTCATCATGTTTTGACTTGTGTGTTTTCTTCTTGTAGATTATGATATAG
1221 CaSNP3186 ATAAAAATATTTGATAAAACATATTTTTCAAGTAGTAACAATATATGAAATTTATAGTAA [A/T] AAAACAATATACCGAATTACATTGACATGATGTGACACCGTTAAAAGATAATGAGTCTAT
1222 CaSNP3187 ATGTTTTCTTTTAGTTGTGTGATATGTGCTCATCAAAAAAATAGTTTGATTAATTC [A/G] GAAGCTTAGAACACATCCATTTGATTTACTTAGCTGTCAATACTTCAAAGAGGAAAGAAA
1223 CaSNP3188 ATTGATGAGAACTGGCTATGGCACTTAAGATTTGGCCATCTGAATTTTAGAAGCTGCG [C/G] AACTAGCAACAAAGAAGATGATGAATGGCATTCTTATGATTAATGTTCTGAGAAAGTGT
1224 CaSNP3189 TTATATGGGTTGGAATACTCCTATAACTCCCATTTGATTAATACTTCTTTGCTTATAAAA [A/T] AATATACCAAATGTATTAGTGAGGTGAGTCAACAGGTTAATGAGGTGCGATGTAGATGAC
1225 CaSNP3190 GAACTGATCCAAAAGTCCATATACACTCTCATATTTACCCTGAAGAACATTGAGGTAGGA [T/C] GCAAACTTTAAATGGCAAATATAATAATAATTTTTTTCTATTTTTAT
1226 CaSNP3191 CCTCTATAAGCTTGACAAACAAGTGTCAACTACTTTTGATAAGTGATCGTCTAACTCT [A/G] ATTTATAATGTATCTCTTATGAAAGTCAATACCTGGAAGAAGTCAAGCTTCGAGATAG

1227	CaSNP3192	GAATGGATATCTATAATTCAGTCTACCAGAAAGATCCTCAAACATAGTGAATACATCTGC [T/C] AATTGAAGTCTGAAGGGATGTATGTTGTAGCTGTGAGACTACTATCAAATTTCTCCGGA
1228	CaSNP3193	GAGAAATGTCGAGAGATGACAGCCTGACTTGCAACTATTGCTGCCAAAGCAGCCACCACG [A/T] ATACCGGCCAAAAGAGGACATCTACAAAATGACAAAAATACTGTCATTATCATTTGAAA
1229	CaSNP3194	AAGAGCACAAAATTAGCATTACTCTGGTTTTCTATTGGACAAACATTTCTATTATTTTCAT [T/C] AAACATTAATACATATAGGAGTGGTGTAGTGCATATAATGAACAAAACAAGATCAACAA
1230	CaSNP3195	AGATGAAGATGATTGAGAAAAATAACTTTGGCAACTTGTAGACAAACAAAAATCAAA [A/C] GGTGATCGGTGTTAAGTGGGTTTATAAAACCAAACCTACCTAGATGGTTCTGTAAATAA
1231	CaSNP3196	ATAAAACCAACTTGGTTCCAATAGAGATATGTACCATCTAATTATCACATGGTGTCTACAT [A/C] AAAAACTACAAGGTTGAAAAGGCTCAAAGAGTGTGGAGGATTATTATAATAATTTTGA
1232	CaSNP3197	TGTCTCTTGGTACCAAAATATGATTAGGCCCTAGTTTGTAGTCTTGAAAGGTTTCTTGT [A/C] TTTCTTATATTTTACATGGCACAGATAACTTAGAGTGACCTTTCGTACAAAATATAGA
1233	CaSNP3198	ATTAGGATGGTCATGCTCTTTCTTCGAGATATGCACCTGTACTTTTGATCGACCTATAGT [A/C] ACAAACAACCTACCTGCGAAGTTGGGATGGGACTATGTGGTCATGACTGTGATAATGGT
1234	CaSNP3199	TGGAGAGGAACAAGTGCATAATCATCAAGACCATTCTAGACAAATTAATAATGGTACTTC [T/C] ACAATACTAAAACCGTCTTAAAGAACTAACACACACAACCTTTTACATACAATGGTGTGGA
1235	CaSNP3200	ATTACAATGCTACTAAAACGAACAATGAAAGTTCTGCACCCTCAGCGGATTCCTACC [A/G] AGCTTAGATCAACTGATCCTGAAAAATCTGCTGATAAGTCTTTACTCCTTATTGGTTCAG
1236	CaSNP3201	GGCGTCCACAAGATGCATATGGTATGTATGACAATGATAATAATGTTGAAATGTACA [A/G] ATCACTAGCCACTTAGGCTACCACAAAATAAATCATAACAAAATAACCGCCACTTAGA
1237	CaSNP3202	TATTCATGAAATAAGTGCATAATTTCTCAATGGATATAGATTTTAGGTCATTTTGTATTT [A/T] CTAGGTGATTTCTAGTCCACTTTTTCTTAATTAATCTAGTTCGTTTAATAAGTCAAAGA
1238	CaSNP3203	AAACTAAGACACTAACATGATAAAGTGTGAGAATCGTGAGATATTTTTCATATATTCTA [A/G] CCTCCTTAAAGGTATGTTTGGGTAGATACTTGGGATGGCTTGTACGCAATGGATGACAA
1239	CaSNP3204	TAAAAGAGAGTGTGTTAAAATGTGTTTAAAGAGTATATTGCTAATATTCTAATAGTGAAT [A/G] TGGCATGACATGAACCTTGGACTCTAATAGTGAATGAAGGTGGTTTGGGCTTAAGATAGT
1240	CaSNP3205	AACCAGAAAGAGCAACAAAACAAAGGAACGACAATGGTGTGGAAGTAGGTAAGAGTAAA [A/T] AAGCTGAATCAATGTCTTCAAACGTATCTGTTTTATCCCTCCACCAATATTTAATTTT
1241	CaSNP3206	TTGTCGCCAGATGAAATTCATCTACGCTCGCTGCGCCACATCACTCACTCCCAATCATTT [C/G] TGGCTTTTGTGTAACAATAGATCTGACAACGCACGAGCAAATCCTTTAATATACTATTTT
1242	CaSNP3207	GTGACCCGTATTTTATGGTCATTACTATTAATGTTATTTATTTGTTCTTTTTTATATTTGT [T/C] ATCATATTTTGGACATTAATGTTGTTCTGCAATTTTGTCTCCCAAGTAATATTCATAAGT
1243	CaSNP3208	AAGGTACCATTTACTTTGCATGAACAAAAAACAGCTTATCGTAGATCAGTGGCCTATATG [T/C] GGCTAAGTCATAGTGGAGGGGACATAATGAATTTATTACTCTAAATACACTGGCATTGA
1244	CaSNP3209	GATGTAGACTAAGTGAACACACCATATGATACGATGATTTTCATTTAATAAAAATGCCAAT [A/T] AATTATTAGTTGTAGATTTTACTTCACCAAAAATGTTTATTTGTCCCACAATTACGTCAG
1245	CaSNP3210	CGATTCTGTCCCTGAAATGTAAACATGTCAATAAAAAAGACCCCTTCGTTAAGTTCAAAC [A/G] TTAGAGAGCACGGTGTACATGTTAAACAAGGATGCGACACTTGAAGTGAATGTCACATC
1246	CaSNP3211	AACATTTGATATTAATAAACAAGTACATTAAGCATGCATTAGATAATCTAATTGAACCA [A/C] ATAAAAGTTTGACTAATGACAAAATAAGAAAAGACTTACCTCTTGCCGTTCCCTGATTCAA
1247	CaSNP3212	TCTAAGAAAAATAAAATTAACAAAACCTCAAATTTCCAAAAGAAAAACAATAACTATAGC [A/G] TCCAACAACAATCTAGGCGTCTTTCATCCAAGTTGACTCTAATGAATTACTTCCCTCATT
1248	CaSNP3213	ACTTTTTGTACTTTTACTCTTTTTCCATGGGTGAGGAAGGATAGAAAACATAAGTTCATC [A/C] TCTCTCTGCATTGTTTATCCTCTAATGGTAGAGGTTATAATTTTCATCCATGAGAAAAAG
1249	CaSNP3214	GGAGGAGAGAAGTGTCAACGAGATCTAAGCTCCCCGATTGATGCGTGATGATGCGTTGCG [A/G] GATTGAGAGGAGAGTGTATTTGTTAGATTGAGCCACCCCTAAGGGAACATCACCCTTA
1250	CaSNP3215	TTATTCGCCAAGTTGAAGCAAGAATGATATAAATGGTGTCAAGATATGTAGAACGACCCC [T/C] ATTATCTCTCATCTCTTATTTCGAGATTAATGTTTCTTATTTTTTTCGTGCAACTAATAA
1251	CaSNP3216	CCTCTTCCCTCTCCTTTTTCTAAAACCTTGCTCCTACTACTCCTAGTCCTTCATATATATG [A/T] GCCAAATTATCTACATTCAAAACCTTAACTTGTTCGGAAGATTGTGAACTTCAGGCTTC
1252	CaSNP3217	CACCTCCCAATGCCATATGTGATTACAGTCTCAAATGCCACTTTTTAATGTCTAATTCC [T/G] TTCTCTTATATATACTTCACCACCTAACCCGCTAACCTACTCCTAATAACCATGTAA
1253	CaSNP3218	TTAGTGATAGGTAAGGGGAACAAATTTGGGAATAGGTCAGGTCGACCGACAGGGACCTA [T/C] AGACTAGCCTATGTGAGGCTCATGCTAATATTTCTTTAACAGACAAGGCTAAAGGCTTCT
1254	CaSNP3219	GTGATGGTATAGTTGCTGACAACCACCATGTGGATGAGCACCAAGAGTGTCAAAACAAAG [T/C] TGTGCTCTTTCTCGATCCATCGACTTGGCAGAGTCTGCATTTGTTGATAAATAGGATAA
1255	CaSNP3220	ATTTGATGCAGCAGTTCCGTGTGATTGCTGCAGTGTGAAAGCTAATATGTTATTTGGAC [T/G] TTTAGTCTATGATGCCTAATATTTACCAATGAACAGAATTTTTGGACAGGTTTAGTAA
1256	CaSNP3221	GCTCAATCACTTCCACCTGCAGTTTCATATCATATAATTCACCATGAACATGATGCAATG [A/G] AATCACAAATTAACATAAATACTACAATGAATTTGGAACAATTTTGTGTCATTGATTAA

1257 CaSNP3222 TGTCTGACACCAACACGACACTAATTACATTTAATTAATTCATTTTCTCTAATTATTACC [A/G] GTGTTGTTCTGTCACTGTGATGTCTGGTGTCTGTGTCACTAGTACTAGCTTCATTGCTTGC

1258 CaSNP3223 TCCTTACTTTTACCTTACTGCTTTTCAGACCTGACATCATATTTAGTTATGTGTATGTGCAA [T/G] ATTTCAAGGCACTACTAACATTACCTTGTCTACAAGAAATCTTCTGAGTACAAACAAAG

1259 CaSNP3224 TTAAGAGTATACACAAGCATTCTATCATATCTCAAGGAGTCATGTGGATTGAATGTTGC [T/G] ATTAATGTGAAGATTACATCGATAGATAGTATATAAGTACATTTTAAAGAGTTCTTTAAG

1260 CaSNP3225 TTGAGTTAAATCACAAGATTATTGAGCTACCTAGGTTCAATTCAGGTGGTTGATGAGAA [C/G] ATTGTGGACAACAGATCCTAAGATTGACCATTGTATTGTTAATACTCACATCGTACCCAC

1261 CaSNP3226 AGATTACTCATGTATCTAGGTACTTCAGTCCACATAAAGTATAGATCTCATTAAGAGTTT [A/C] TATTATCTCATATTTTCATGAATTTCCGGATCATGCTTCTTTGATATATAATAACATATT

1262 CaSNP3227 TCATGATTACCTTAAGCTCGAAATATTTTTTCTCTCACCACCTTTCATTTCATAAGAATA [A/T] TTATAATCACATGCATAGCTTGTCTGGAGTGCAAAGATTAAAGTGTGGGGAAATTTGAT

1263 CaSNP3228 ATATCAATTTATAAATTTGTTTTAAATGCCTTTTTAATTCCTCATTTTTTCATTTATCCGT [T/G] ATTTTAATTTATTGTGTATCAATACATTTCTGTATTTCTCGTGTATGTTGTTTAGTTT

1264 CaSNP3229 AAAAAGGTGAAGTACTTGACATGAAGGGCACACTAGTCAAAGTGGTTGGAAAAGTAAAG [A/C] AAAAGGATAAAAACAATTCATGAGAAGAGGATCCACGCTAGAGGATGAACAATGAAAGGAT

1265 CaSNP3230 AAAACCTACCACGTTTCTTTGTGACAACATCACTATTTAGCTAAGACGCATATTTAGAGC [A/G] AGTTTAGGTGAGTAACTTAATTAAGCATTATCCATTAAAAACTATTCTAGGGAGCTTG

1266 CaSNP3231 GAACTAAATACAAGTACATAGTTAATGCAATTGATAAGAGGAGCCGACCAAGTAGGCAAG [T/C] AGTGAAGGTTGAAGTAAATGCATAGATCATCTTGGTATCTATTGTTCTGCAATTGACG

1267 CaSNP3232 AAACACATTTATCTTATATATTTTTATTGGCCTATGACTTGTAATGAGTACAGATCCATC [A/G] TTTTGACTAATGTCTTGCATGTTTTTTGATTAATATAATATCATGATTATTACTCTTA

1268 CaSNP3233 GTGTTCAATCATAACGCATGGAAAATATATTAATGCAAACCATAATACGCTCTTACTTAT [A/G] AAATATGTGATTGTGACAACATATTTCTGGAGAATCACTCAATCAATGAAGAAGACACA

1269 CaSNP3234 ACTGGCTTGAGGGTCAAGTTCTTTGTAATTCAGGTATTTGAATTAGTGGATTAAAATC [A/T] TCTAAATAAGGAGACTGGATGTAGCCAAGTTATTGGTGAACCATGATAAATCAATGTGTC

1270 CaSNP3235 TGGCAATGGCTCAACATCGACCTGAATCACCTTACTGATAGAAGTTTCTTTCTTTGATGC [A/G] GCCACATCTGTTTCAAGATGAAGTCTCATGAAACACAACATATCTACTTATCCCTATCT

1271 CaSNP3236 GCTTTCCAATCAGAAGATTGATTATCTAGGCATAAGACATAAATTTGGTGATTAATTAC [A/G] ATGATAAGAGATTTTAAACAAATCTATTTATAATGACAACCAGATAATCAATGATTAATTA

1272 CaSNP3237 TAATGCAAACTCACTCCTAAAGTTAAAAGAAAACATACCAGTAAAAAATTAATTCAGCTG [A/T] AATTAGATAAAAAGTAGGGCTAACATCTTGCATGCCTAACCTCTTAAGAATAGAATAAGGT

1273 CaSNP3238 AAATTAAAAACATACATCGACTATGGTATTTCAATCATCTCTTTCAATAGGACAACCAATC [A/C] TCTCCTCCAATTTTTCTACCAATGTTTGCAATATTTCAACGAAGTTGTAGACTTTGACTG

1274 CaSNP3239 TATGTCATAACGCAAGCCCAATAAATTTTCAAGTACATCTTTAACAATAAATTAATAC [A/T] AGATGTCATTTAGATATGCATGACTTGCCTGTTTTAATGTAGCGTCCACAGAAGTAGTAA

1275 CaSNP3240 ATTCTCCTTGAATCTTCTGAGTGTATCTCCTTGCGGTTAGGGGTAAATGATCTTCACAT [A/G] AAATAAACCATGATATATGGTTGGGAATATGATTGTTAGAGCTTGATTAATCCAAAAT

1276 CaSNP3241 ATATATCTTATTATACATAACAGCCCAACACGTTTGACAATCCGTAAAATGTCATGTTTC [A/T] TAAGCTACAAACCTTAAGGGAGAAGTTTAAAACCAAGATATTAGCTTTTTCACTCAACAT

1277 CaSNP3242 CATTTACAATGAAAGTTTGTCAATTTCTCATTTGGCATGGATTTTAGACAGAGTTGCAGTG [T/C] TTCATCCATAGCTGATGTTGCATAACAGAGATGTGTCAATTTGTGGCATGTATATGGCTTAA

1278 CaSNP3243 CAAATTAAGGAAAATGTATCTAGTTTGTAAATAAACAACAAACCATTTAAAAGGATTCCT [A/T] GGAAGAAGTTATAAGCAAAATATTGAACATATGTCTATACGAATTTGAAACAACAACAT

1279 CaSNP3244 AAAATATTCATAATTTGCAACAGAGTCTTGTACTGCTGCTTATCTCCACGCTTGACTC [A/G] TGATATGGTGGTTTTCAGAGGATATGCAATTAATATACCTACAAAGTATGATGCAATTTT

1280 CaSNP3245 GATGAATGGCTGAAAATTAATCTATTAAGGCTTGCAAAATTTCTTATGATCAAGTGGTGTTC [T/C] TGAGAAAACATAATTGATTCATATTTGTCCACAACATATTTACCATTAACCAATCCGTTAT

1281 CaSNP3246 AATGTGGGAGATGCGACGTTGTGCTCGCCAACGACAAAAGGATTCCTCAATCTACTCCACC [A/T] TTATACGAGACGGTACTTTTTAAATGGATGTTCTGTTCCACCAATATATGACTATTTGGTGT

1282 CaSNP3247 TCAGATGTTTAGGAAAATGACTAATCTGACATGGATTGCGGTTTCTGTTGGGTTTGC [A/G] CAGAAGTATTCAGAACAAATTTTGATTCAACATGATCTGGATTTGGAATAAAACAAGTA

1283 CaSNP3248 TTGTTATGGTCATTATTGTGTTAGTAGTGTAGAATAAGTTAGTCCCTAAGTGTCTCACT [A/G] TATTTGATTGGCCTATCTGATTGATTTAGGTAGTATGGCTAGTGGAAAGGAAATGACGCTC

1284 CaSNP3249 AGTACCCTTATTAGAGAACTAATATATGGGCATTAACCTTCTCTAATATTTGCAACA [T/C] TATCAAAATAGATCAATGTAGCTGGAATGACTTATCATAACATAGGAATATCTTATAAAT

1285 CaSNP3250 TTGTGGGGATTTTTGAGTCGTGAGGTCCGTGATAGACTGCACATTTTTAGTAAATCATG [T/C] TGACCTGTGATAGGTGGCACCTCGGTAAGTAGTACTGGTCTGTGATAGCCGGTACATTTA

1286 CaSNP3252 ATAGTAAAGCAAGGAAGGATTGACTCACACAGTGACAATTTAATTTTAAACCAATTGGA [T/C] TCATATAATTGTATCTGCATAACACGAAACCATTAACCTTCTGGTAAATCAATAAGCATCG

1287	CaSNP3253	TTCCTTCTCTTTCTCCTTGAGCATCTTAGAAGCTTTGCGTGTCTTTGATTAGACGACAC [T/C] CCGTTTTGTAGCTGCTGTTTATCCAGAGAACCATAAECTCCAGAACGAATACCAATACCC
1288	CaSNP3254	AAATAACCTAGTACTAAACTTGGACTTGCTGCACCTATCCATATTGATCATAGGACAAAA [A/G] CTCCTCATTATATTTAAAAATACAATCCATACCTACAAAACCTCTCCCTCTGCCAATTATAT
1289	CaSNP3255	TTGGATAAACAGACATTGAACTCTCTTTATGCACTAGACAAAATTGGAATATGATACATAG [T/G] TGGATATAGGATATGGGGTTGTTCTTTGACTTTATGTGTTTACCTGGAAAATATAATCAT
1290	CaSNP3256	AATAGAAATCACAGAATCAAAAAGATCAAGAAAAAGAAAAATCAAAGTCAACTTTTATA [T/C] TTGTTCTCTCTATCGTTCTCGCATATAGAGTACATCTATTCTCAGTCAAATAAATGAG
1291	CaSNP3257	TATTAGGAGATATACTGAGATGCGTTTTTCATCTGCCCTAGTATCCTGTGGCAGAAAA [T/C] GGATTTGAGTTTCAGGAGTCGCTCGTTGAAGCACTATATGGGCTTAGCATATGGGATCGT
1292	CaSNP3258	GAGGAAGTATCTTGTGAACCACAAGTGAAGCCTTGCTTAAGGAGGGTAATAGATCC [A/G] TGAGTAGTATTTGAGTTATGGCATGTTGTAGTTATCATTTAGCCTCTTTAAGAAGCAGA
1293	CaSNP3259	TTGGATGCACAAGATTGGTTAAAAATCCTAAATGGACTAGAATAAGCCTATGGAGGAAGA [A/T] AATGACCTAAATGTTAACCAATGACAGAAACACACTTATTATATGCACAAGGTTGTTTA
1294	CaSNP3260	CACAAACAATGCTCACAAAATTCAAGATCACTAATCTTATCCCCACCTAGCATGCCTTGT [A/C] TGTCCATAATTTGCATCCCTTTAGACTTACATGTCTCAGTCTTTGATGCCACATGCTGA
1295	CaSNP3261	CACTCGTTTAACTTTATATTACTCAGTGCCTTAGTAATGGCAAAACAGAACCCAGTTTCAC [C/G] CTTTTGTATCTTAACCCAGTAATGGCTATTTAGGTTGGAAGTTGAGAAGACTTGACTTAT
1296	CaSNP3262	GAAATAATTTAACAGAACTTTTTTCTGAACCCCACTATAATAAACATCTTGAATGGGCT [A/G] GGCTTTTTATTGTTTTGGAAGTTAACTATGTGATTTTAAAGGTAACATACACGAATACT
1297	CaSNP3263	CATCATTCATTGTTATAAATGTATTCACATACTATTTGTGCAATCACAATCTATAAGAA [T/C] GTGCATTATGGTTTTTAGAGCTTTGACTACCTGATGCAAAACATCACTATCCGACATCCCA
1298	CaSNP3264	GGCTTAGAGTTACATGATCAATATGGATTTTTTGTGAGGCGAGATATCATTATGATGT [C/G] CATTTCATTTAGAGGGTTAGACTTTGATTTGTTATCGTTTGTCTTATATGATTTGACTTG
1299	CaSNP3265	AGCAAAAATTTCCACCTTCTAAAGAAGTCATAATATATATGCTTGCTTATGTGGTTCTA [T/C] TATTTAGTCTTTGAGCGACTATACATTTGTGATTCACATTTCTTTGTGGCGGATTACATA
1300	CaSNP3266	TATTTCCACATATGAATCATATTAGTGGCGCTTTTTATTCCCACCGATAATCAATTCAGT [T/G] GTGACTCTTTCACAAAAGAAATACACAAAATAACATATTTTACAGGTTAGATAGAAAAAT
1301	CaSNP3267	CAGGATGTTAGTATGTTGTAGACGGTCTAGGAACAACAACCTGGAGAGGCTAGAGAAAA [A/G] TATTCAAAGCTTGAAGAGGTAGAGTAAAGAATACTTGTACGACTCTTTGTGGAAATAGTG
1302	CaSNP3268	TATTGAGTATGACTTAGTCTCTATGTGCTTTGTAGTGTATTAAGTTACAAAAAGC [T/C] AGTAGGGGCTCAAGCCCATGGAGCACACTCAACATAGCTCTGCCCATGCAAGGTATGCTT
1303	CaSNP3269	GGCTAATGTCTGATGTTATTTTCTCAATACCTTTTGTAGTTGGTATGTAATCTTATGTTTC [A/G] TTCTTGTGATTTGCTTCAGTGGTGGCAGTTGTGATATGAAAATGTATGATGCTTCCGAAA
1304	CaSNP3270	TAGAATTCAAAATGATTCAGTGTAAAATAATGTGTCGATGAAGAATGACACTTTCTC [T/C] ATTTAAAATAAAAATGACCATAGAAAATACAAAACCTTATATAAATTTGTCAATTAGTTTTT
1305	CaSNP3271	GTTCAAAAGACGGAAGAGAAGATACTTTTTTAGTGGTTTTGTGTTGGTTTAAAGGGA [A/G] ATATTTTAAATGATTTTTATGTTGTTTTGGTTCCCTCCTCCTCCACTCACATCCAAATCCT
1306	CaSNP3272	ACCAAGAGAAAAACTATGGTATCACCATGAGTCCTTCTAATAGAATGTTTGGCCCGC [A/G] GGGCTAACTAACACCAAACATAAAGGATTGACTATTAATTTGCATTAAGTACTTTTTGC
1307	CaSNP3273	GCAAAAACCTATGCTTCATATTTACAAAAGCAAGATCATTCTCCAAGTTGAGCAAGCTTCA [A/G] GTACAAAAGTGACAGACTGGACAAGACACATCAATTTGTTCTTATGAGCAGCTGCACACC
1308	CaSNP3274	ACGAATATAATTAGATAGGTGTAAAAGCATACTTTGGAAAAGATAAGTTATGAGTAATA [A/G] CAACAAAAGAAGAAAATAAGTCATGCTATTGGATAACTATACATTGAATAACACATTAT
1309	CaSNP3275	CACAATAATGAACCTGTGCCATTGAATTAATTTCAACAGTTCCTGACCATGTTTCCAC [T/C] GGGTTTGCATTTCTGAGTATGGACTTCTCAGGCACAAGGATGCCAACAAATGCTCCTCT
1310	CaSNP3276	GAAATGTTGGTAATGATCTTTTCTTTGCGACATCACAACCACGTGAAATTAATTC AAT [A/G] ATGATGATTTATATCTTAAAGATGATCATGATAAGGGAATTTGGATTAATCCACCGTTAC
1311	CaSNP3277	CAATGGATGAAAACCTAACTACCGTAATTTGATACTTTGTGTCAGTGCAACCTGCCATAT [A/G] TTAATGATGTTGTTGGCCGACAATCTACAGGTCACCTCAGTCTCACTCTCACTTTCACTTCT
1312	CaSNP3278	AGTTTCTATAGATTTTGCATCTTCAGGAATTAGGTGATGGAGAAGGCATACAAAAGAAAC [A/G] TATTGACCACGGTTGAGAGACTCTCAACAAACATCATTTCTTCCCACGAAGTGTTCAC
1313	CaSNP3279	ATAATGTTTGAAGCAAGAATCCACCTTGAAGCTCTTTATATGATTCCTCCCAATTACC [A/G] TATATTTCTCTCAATGGCCTTTTGTGTTTGAATCCATGTCTTTCTATAAGTAGTGGTATAT
1314	CaSNP3280	ATACAGATTACCATCGATATTATCAAATCGGTACAGAAATAACCTGAAAGTCTAGATGA [A/C] ATCGAGGATTATCAGAACTTTATAGAATCTTTACTTAAATTTATCACTGTGTTTTCTAG
1315	CaSNP3281	TCGAGTCTGGATCTAGCCCTGATAACGCAATAACGTTAAACTCTTGATGGAGACATTTGT [T/C] GTCCACGTGGGAGATTAGTCTCCGTAGTTGCATGTGACAGTTGGTATATACAAAAAGGG
1316	CaSNP3282	TATTTAATTAAGTTGTTTATCCAAACAGTGTAAATTTAAATTC AAGACAAATGAAGAACT [A/G] GGCAGTCTGTTGTAGATTTTGGGCAACGAATAACATGAACACTGTCTGTTTCAACTA

1317 CaSNP3285 TGATCCTGCTGTGAAAGGAACCCTGAATGTCTGAAATCGTGTGAAAATCGCCATCTCT [T/G] AAACGTGTTGTTTTAACCTCTTCAATTGCTGCCGTTGCATACAATGGAAAGCCTCGAACT
1318 CaSNP3286 TCCTTTTCCTTTAAGTCTCTATTCTGATCATCTGAATCACCATCTCTGATTATATTGTT [T/G] CCTTCAGAACATTCTTCTGGTTGGATTTCAAAGCCAAGGTTGGTTGTTTCTTCTCGGGCT
1319 CaSNP3287 CTTATATTATAAATAACAAGTATTCTCTTAGTAATAATGGCTAGTTATAGTATCTTATATG [A/G] CCAAATAATGTCAAACCTACCGACCATATTTGGATGGGAACAAATAGTGAGAAGATACTT
1320 CaSNP3288 TCCCAAGATATATAGATAGATACACAGATAAACTGACAGACAGACAGACAAAACAAAGAGA [T/C] CGGCAGACAGACAAAACAAAGAGACCGACAGACAAAACCAACAGACAAAATAGACAGACAAAAC
1321 CaSNP3289 GCATGACTCACCAACTCTACAAAGGTTATGCTATATCTAAAGTCTTAAACATTTTATAT [T/C] TTGTGTAGTTTCTGAGGGAGCAAGCTGCAAATTCGGCTGCTGATATCACTACAGAAGCAG
1322 CaSNP3290 TATGAAGTTTTAGTCAGAGAAGTTAGACTACATTACAGTGACCACTACACAGCCACAAC [A/G] CCATAATATGACATACATACTTGACCCCAAAGTTATGGTGACAACAAGGGACCTATTTTG
1323 CaSNP3291 ACTCTCTGGCAACACTCATAGCTGCCACACGCCCTGGTTGGGTGCAACCTACTATTCCA [T/C] CTATAGTATAGCCATCCTCGTGTAGATACTGTTCAAAAACACAAATGTCAAATTCATTT
1324 CaSNP3293 CATGGATTATTAATAAGTGGTGGTATTTGAGATATTTATTCAGGTGCATATTTGTAT [A/G] TGTTGAAGTTATTGAGCTCTTACTATGAACATCCATGAGAATATAAACTTGATGTCTTAT
1325 CaSNP3294 TGCCCGATCATATTCCTCTTCTCTCTCCACACTTCTCAGAGTGTTCCTTTCTTTG [A/G] GACTCATTGGATCCATCCAAACTATTTTTCTGAGGCCCTAGGTCGAATGACAATTTTTTTC
1326 CaSNP3295 TATGTATTTATGCAAATAAATTTGTTTACAACATGAAGTGCCTGCGGGCATGTGGATTCT [C/G] GATTCAATTGATGAAATTTGGGGACATGAATAGACTGAACCATGTGGCAGTGAATTTT
1327 CaSNP3296 GTGTGAACCTTACAATTATTCATGACTTCTATTTATACGTACAAGTCATTCAAAGTCGA [A/G] GTTAATAAATGTGCCACTAACATATCAAAGAGCACTACTAAAGTGTGAAAGCCAATAAT
1328 CaSNP3297 ACATTCTTATATATTACTAACCAAATTTACTAACTTCTATCTCTCGTACCAGTTCCA [T/C] CACACATTTTCAAGCCACACATTACACAAAAAATTTTACTATCGTCACCCTGATGCCAGTT
1329 CaSNP3298 TTAAAGGAAGTTAGTAATTAATAGCTATGGTCAAACCTCAAACCTCCCATACCCCTCAAATTA [A/G] GATAAGCAATTTAAAGGATCCCACTCTTACGCATATGTATATGAAAGTTAGCGTAAATGG
1330 CaSNP3299 TTACCATATTGCAATAGTCATAATTTGCATTGCTAGTCTCCACACAAATTTATTCATCA [A/G] TCTTATATACAATCACAATTACAATATAGAAGAGTTTGCATTTAAGATTTCTTTGTAATTT
1331 CaSNP3300 AGATGGAAGGATAAAAAACATTGATATGTAGAACAATAATCATATTTCTTTGATTGAGT [A/G] CATGCTTGATTGATATATATTAATAAATAATGAATATGCCCTCCCTTTCTACTCTAACTT
1332 CaSNP3301 GTTTAAGTTAATATGTGTTGTTGAGCTCTAGCAGGGTCTGTTGTGGTCAATCGACTCA [T/G] TCCATGATTTGGAAAGTGGAGTTCTCGTGTCTTCAATGAAATTTCTTAATGTTGCTTTG
1333 CaSNP3302 GCACAAGGTGGAGTTGGAGCTTTCCAACATTTGCAATGACATTATGATTTCTTTAGATGA [A/G] CATCTTATCCATCCACTAATGTTGCTGAATCCACAGTGTTTTATATAAGATGTATGTT
1334 CaSNP3303 TAGGTCAATGAAGTTGGGATGTAAGTGAATTTTTGACGAGGTAGTAGGGATGGGAATAGG [T/C] TAAGTGTCCAGGTTATGGTCTGACATGTTCTATTTAATAAAAAATTTACGCTCATGCTA
1335 CaSNP3304 TTATCCCTTCATAACTTGCACTAATTTTGACTTGCACTCTCTGTAATTTATGCATACACT [A/G] AGGCAATTTTGTGGTCAATTTGAGCCTTTCTAACTACCCATGAAAATTTATCCTTTG
1336 CaSNP3305 AAATAACCAATTACATCATCTAGTACAAATAATCAACTGGATACATTGTAGTACGATA [A/G] TTACATACTAGAGGTGATTTTCATTGGTAAAGTTATTTGTTGGAATCACTAGAAAAATTAGT
1337 CaSNP3306 CCACAACAATTTGGGTTGTGGTTTCAGAGTTTTGATAACCCTGTACCTCAATGTGATT [T/G] TAATTTGGGACCGCATCAATTACATTTGACTGCAATTTTTTGAATATGAATGATTACAAT
1338 CaSNP3307 TTAATTAAGATAGTAATATGAAATTTGGATCTACATTATAAGGTAAGCTTTTGGAGTGG [A/G] ATACAACCTACAACCTCAATTTGATATCATAGTAAGTACCATGATCATATAAACAACAC
1339 CaSNP3308 ACAGTCAGTAAGTGTATGAAAATGTAAGAATGATTGCCGAACTGTGTAGACGGTTACCG [A/G] TAAAACCTTGACAACATACGGTGTCCATTCAAGATTTAAGTTTCTGATAGCAAATTTGCCA
1340 CaSNP3309 GAATCATTTAATGTCTCATAACAAGCTTGAAGTCTGTGCCAGAAAATGGTATGCTA [A/C] GAACTATAAATCAAATAATCTTGTGGCAATGCTGGCCTATGTGGTGGTGTCTTCTCTTC
1341 CaSNP3310 TTGAGCAGTGTAGTCATAAGCATGATTGGGGCATTGCACTAGTAACTCTTGAACCTCCT [T/C] TGAGTGTCCAGGAGATTCTCCTCTTTTTGTTGTAATAGGAAATCTCTTGCCTTTTT
1342 CaSNP3311 TAATCCAATACTGTATGCTCATTCTAAGCATATTGAAATTTGATGTTTATTATATTAGAGA [T/C] TGAGTACTACAAAATGAGGTTATTTGTTGGCTTATGTCCCTACATCAGATCAAATTTGAGAT
1343 CaSNP3312 GAGGAATACACACCTTGACTCTACCTGCCAAGTCTTCTCCACGCAATCTGACAACCTC [A/T] GATTGTTAAAGGCACAATAACACCCTATTTGGTTGAAATCAAAGGTTTGAACGTAAGT
1344 CaSNP3313 TAATTATGAAACAAAACAAGACATGACAGTAATATGGAGAAAAGCATACCGACTAAGTTT [T/G] TGATGACATTAACAGTGCCAAAGTATTTTACATGTAATATCTTCCCAAGTAAGAGCT
1345 CaSNP3314 ATTCAAATTATGTCAAAACGCATTGGTAGAATTTTTTAGGAGACAAATTTGGAACATA [T/G] ACTATGTTATGTTACTATCTGAATTTAAAATTTATGAAGTCTTGGATTTGAAAACCTCAC
1346 CaSNP3315 CAATACCTGAGCTTACAATCAACAATCGAAAGTGAATTCAACTGTAAAGAGTCAATTTA [A/T] ATAGAATGATGTATATGAAAAGATTGATTTTATGGGTAGTTTAGTTAACTGTCTGAAA

1347 CaSNP3317 TCCCAACACTTTCCGGTTGCCATGAAGTATAAGGCTATCTAATTTGATAACAATGTCTTC [C/G] ATAAAAGACAATCTTAATATGTGGCCTAACTTCCTAACCTTAAAAAGTTAGGAAAAGTGTC
1348 CaSNP3318 AACTGAAATAATACAAAACCTAACTAATAACGATAGATAGCTAGTTATGTTAATATACC [T/C] CGTCAAACCTGAAAGGGATATACAACATTTTGAGTTCGGACAAAAGACGTAAAGTAAAGGGAA
1349 CaSNP3319 TTAAATTTGTAAAGAATGAAGTTACATAAAAACAATTTACACGGATAGACTCAAAAAAAG [A/T] TAAAGTTGTAGAGAATAAAATCATATTTAAACTAATATTTTTTCATTTTTTAAGGAGTAA
1350 CaSNP3320 GTAAGTTACACTTGGAATAGTTGAAACTTGATTTTAAGCTTGGTGAGGCCAAAAGAATAC [A/C] CAAAGTGAATAATCCTCTGTGAGAGGTTGATCAGTTTGAACATTAGTGAAATCTCACAA
1351 CaSNP3321 ATCCAAGCAGTGGCTATTCAACTGTAGGTCACTATTATAGATAATGGACTTCAATAGCC [A/G] TGTCTCTACCAATAACAAATTACAACAGAATATACACAATATCCAGCAACTAGCACACAA
1352 CaSNP3322 TGTTAGAAGCAAACACTTAAAGTTCCAATCTTTTGATCCAATGCAATAATGGTTTAGTT [T/C] CTTCTCAATCTGGAGTAGTCGAGTTCTTAGGACAATACTTGGCTTGTAGGGTCAGGTGT
1353 CaSNP3323 AGTGTCCATAATTACTTGAAGCTAGTCAAATTAAGGATTATACATTAAGGTCCTTATGATA [T/C] GGAGTGATATGTCAACACATCTGGTGGTTTCGATGGATAACATACTATGAGGAATCG
1354 CaSNP3324 GAAGGGATTGGGCTAGCAAATAGTAGAATCAGTGTGACCTATTTACATGTATAAGTGCT [T/C] TTGCATGAAGATATTTTTATCACTCAATTCATTGTCTCAACCTAATTTAAAGAGGAGAG
1355 CaSNP3325 AAGAAGTATCCATGCTGCAATATCATTGACAGCAGCAGCTGCATAGCTATACGACCGAC [A/T] TCGGTGGTGAGGAGTTTGAGCTCAGCTAGGATTCTAGCAAGGACAGGAAATGCAGTGATT
1356 CaSNP3326 TACGGATTTTTTGGCCTAGTTTTGTATCACCCGACAAAAGTACTAAAATCCGTATTTTT [T/G] GACCATGCGATGGCTAGTGTGTTGAAATCTGACTAGGAAACCGGTACACATTTAAAAATTG
1357 CaSNP3327 GGAGATGATGGATATAAAGATGATATGAGATGATGTAGATTTAAGGAGAAAACACATAAA [T/G] CATGTAATAAGAGGCATAAAGTGTCAATTAGAGAGTCTTTTGCTTATAGAATTCAACAAA
1358 CaSNP3328 TTTTCTGTTTATTTCTATAAACTCTATATGAGAACTTATGAAAAAGTTGTAGCTTATA [T/C] GATAAACCCCTTATGGTATATAAGCAGTTAATTAATGTTTATCGAAATAGGACCTACGT
1359 CaSNP3329 CTACGCTATAGCACCGCTACATAGCGGAATTTGAATAGCTTACTATTTTTTGCAGTCCGC [A/C] ATTGACAACAATAAGATATACAATAAAATGTACTGTGTAGTTAAAATCTATGTAGCACA
1360 CaSNP3330 TTGTGTTAGGCCATTTTTGCTTGTCTGGTATTCCTGTTTTCTCCATTCATCTTCACTAACA [A/T] TAAGCAAATATGATCCTGAGGGATAGATCTCTTTAATTTAATGATTTTTATAGAGGGTT
1361 CaSNP3331 TTGGTGATATGTGATGTGTTTAGGGAACCATCAATACCATGATTTGATTACAGCAGATG [A/T] GATAATAACATCATTTGAAAATAGCATAATTTCAAAGGTTTCATCGACATAGTAACAGATT
1362 CaSNP3332 CTAACAAGAGAAAAGCATTGTGTAAGTACTATGCAACCAATAGTAATATTCAAAACAA [T/G] ATTAACCAGAACATGTACACAACAACCAATCTGTTTCCGCCTTATACTTTACAACACC
1363 CaSNP3333 ACTGTTGCACCTATTACTGTCTGGCAGCAATGATCATTATGGTCATAATATTCATCTT [T/C] TGTTGCTGCACCTATAACTACCTATTAGTAATGGCCATTATGGCCATAAACTGCTCATTT
1364 CaSNP3334 GATGAAGGGTATTTAGGGACACAAGACATTTTGAAGACAACGACAGATATAAGTTGAA [T/C] TGTTGGGATGATTTGAGAATGAGCAACATTCATCCATCGCATAACCTCCCACCTCAAAAT
1365 CaSNP3335 GCATATGCATCTTTGTAGAAGTTGTCTTAGTGACATGTTTATTTTTTCATTGATATAGGT [C/G] GTTTTTTGTGTATGGAAGTTGCCTTATAGATAGATTTTATATTCGATTATATAGTTTTA
1366 CaSNP3336 ACAAATTTAGGCCTAACTCAAGACTCAGTTTGTATAATCTGTGATAGTCAAAGTTCCATC [T/C] ATTTGAGTACAAATCAAATGTATCATATAAGAACCAAATACATTGATAATAGACGTCACT
1367 CaSNP3337 AATGACAAGATTTTCATTAGAACATGTGACCATAGTCCAACCTACATGGATCAACTGCATC [A/C] CCATCCCAATTATCAAGAACCATTGCGGATCCATTAAGGCTCTTTTATACCCATTAAA
1368 CaSNP3338 ATTAAGGATTTGATATTTGATCAATGTGCATGAAAAATATATGTGATAGAGATGAGT [A/C] CTTTAAATATTTCTCAATACTTTAGATGATTAGTCTACACAGTCTGATAAAAAATTACTTG
1369 CaSNP3339 TGCTGCCACTCAGGTTGTTGAAGGGCTTCTTGAACATTTCTTGAATATATAACCGAGT [A/G] CTGCTACAAATGCCGATATTTTTGTGATAGTTTCCATACGACACAAATCTTTCAATTG
1370 CaSNP3340 CTATAGTGCAATCGCTCACAGATCAATACGTTCTAGAGTGAATCTGTACATATCAGCA [T/C] GACACGATAATCCCTTAAAGAAAAGATGAACCAAAAATAACATGGCATTATCCCGTGGT
1371 CaSNP3341 TTGGTTGAATTATAATAGATCGGGTCTCAAAGAGTCTTTCCGTCATCATCTTATGCTC [A/G] TTTCTTAGGGACCAGTTGTTTCGATTGTTGTTGTTTGTCTAATTTTTATTGGTAATGC
1372 CaSNP3342 CCTACAACCTACATCCCTTCTAGTGTAGATCCACAATATATTTCTCACTTCCATTTATGCAT [C/G] AGTCACTCACTTCATAGATTTTATTTCTCGGACAGCCTAACATTAACATAATTTTTAATGC
1373 CaSNP3343 ATATATTGGGAGTTGTTGACCAAGGACATTTCAAACCTCACCGAGTAACGAGGTGCTTAAT [A/C] AATGTTGTCTGGAATGGAGGAATCATTGAACTCGGTTTATAGGCAGTGTAGGGTCGCTG
1374 CaSNP3344 GCACTAACTCTGAAAATGCAACAAAGGTGAAGTTCCCATGCCACTAATCTAAGTCACC [T/C] GACTTTGCATATGCCTCTAACTTTGGTTGTTCAAGTATCACAAACCTGATTTCAATAAT
1375 CaSNP3346 ATCATATTGAGGTGTAGTATCATTAGATACGAGATGCGTCTAAGATGGAGTCATTTTATA [T/C] TGAGAAGACTCATACTATTGAGAATGGTTGAGATATGATGTCAAAAACCTTTGCTTGTGTC
1376 CaSNP3347 ACACCCTTATAATCCTTGGAAAGAGTGTAGCTATTTTCACTCATATCCCATCACTTAGAG [T/C] TGTGTGACATATATAATGCTTAAACCTTATCGTTTCCAATAGTTAAAGTTTTTCCCTTG

1377 CaSNP3348 TCTCAAAGAAAATACATCATAGATCTATTAGAGGAAATTGGGACGGGTGTGTGTAGACCA [A/G] CATATACTCCTATGGAATTAATGCTAAACTTTGTGAGAAAGATAGTGTCTCTGTTGATA
1378 CaSNP3349 AGCGAATTCATTAATTAAGTATAGTCAAGCCATAACGGACAGATCTAGCGTAAAAT [A/G] TGATATGAATGTTTTATAAGTAAACTAATAATACTACTCATCAAGTGTAGCAGC
1379 CaSNP3350 TTCAAGGTTCAATAATGATATATCGGCTTATAACTTAACCTTTGTCTCCTGTTTTACTTA [A/C] AAATATCACAATTTTATTAGCAATAATAAAGTATCTTAGGATTCATAATAAGATTTGATT
1380 CaSNP3351 AATTTAGTTTTGAAATGCAGTAGTCTTAAAATCTTAGCGAGAGTTTTACTGTCCATCG [A/T] GGTCTTATCAGACTTGAGGGATTAGTCTCTATAGTTGTGTGCAGATGATACTCAATTTAT
1381 CaSNP3352 CAATCTCAACAAAGAACAAGATATAAATATGTCTACATTCAACTGAGTGAACACTACAT [A/G] ATTATCAACCTTAAATTCATGTTTTTTACTATATAAATAAATATTAATTATAATATTAT
1382 CaSNP3353 CACCCTTGATATCCAACAAAGTACCCTTTCTTGATCGAGGAACTAGCTTCCCTTCAT [A/T] TATATGATAGTATGTGCATACCCAAATAGTTTTAGATGGTTATAAATTAGCAGGATGTCC
1383 CaSNP3354 GAGGTAACATAATCATGTGGAATAATTATAGGAACTTCAATGGTGCCAAAGGAGAAACCA [T/C] TGGTATTCCAGATGAACATAGCTCAAAGGAAAGTTATCTTACTAGATGGACCATTGGA
1384 CaSNP3355 TTTCTAAGCTCAATAAAGAGAACTTGTGACAACCTAAAAACAACAACAGTAATTATAC [T/C] AAATGAGACATGACCAAATGACACCAATGTAAACTTTATGTAGAATATAAATTTAACTA
1385 CaSNP3356 GTTGTATATGTAACACAACCTTTGTATAAATTAACATCTAGTATGCAATAAAAAATACA [T/C] TGTGGCTATGAGAAGTACTGCTCCGAGAATGTTATCTCCCTATGATCACATCATAAAAAA
1386 CaSNP3357 AAGAATATGTCACCGTCATTATATGCGTTCTTGACGGTGTGAGGAGTAGATTGTGGATAC [A/G] ATGAATAATAGTAGGACATGCAAATCCTAACATAGCAAGGAAAAACCTTAGATCTTGAA
1387 CaSNP3358 TGGCACAACCTCAAGGCAGGTGCTGAAAGGAATATGGTTGGTTGTGGGTCAGCATTTG [T/C] CATGGCAAGGCATGGATAATGCCGAAGTTAGATTGAACGTGGCTCTTGATGATGTACTT
1388 CaSNP3359 AATTATGTTACATCTTTTTCTAAAATATGTAATAAATAGAGTAAAGATTCATTTTTGGTCC [T/C] TGATAAATTTGAGAACTCAATTTAGTATTTGAGAAAAATAACGCATTTTTAGTCCTT
1389 CaSNP3360 CCATATTATAGGATTCACCACAAAACCCACTAGAAAGGAACTCTACATGTCTCGTAAAT [A/G] CACCTCAGTTGGTAGTTCCAAGGACATTGATATGTAGGGGTTTTGTGTTCAAACCTCGGGAT
1390 CaSNP3361 ATTCCCCACCTAAATACCTCAAAGGTCTAACAAATCTTGCCCTAAGGCTCAACTGCAAACC [A/G] CTGTGATTAGGCTCATTAGTTGTACTTCTCCGAAATCACTAGGCTTGTGAGGCCTACCT
1391 CaSNP3363 CAATATGATTAAAAACCTTTTGTCTGTTAGCACAAACAATGTTGTGACTTGTGAAGCAA [A/G] CAATTAGATAACACTGACCAATCTAGGAAGCATAGACAAACAGTCACACTCATGCCCTCC
1392 CaSNP3364 CACAATTACAACAAAAGTTATAACAATATTAGTTTCAATGAAATCGCTTTTAAACAATGT [T/C] CATGTACATTTAGTATAAATATCTTTTAAAAAATAATCTAATTCATAATTAATTTTTT
1393 CaSNP3365 AAACGTGATTGTTTAGTACAATAATTTAATGATCAATACTATCATAGATCATATTATAT [A/G] ATTTATGATAAAGTTACCTGCCATAAATCATAAGCAGCATTAAGAAGAAAAGAGTGGAGTT
1394 CaSNP3366 ATTTGGTTGGCTTGAGTTGGAATCTCCTCCTTTTTGGCGCAATGAACATGAAGTTACCATA [T/C] GACCTAGTTGTTTGTAGTGGTAGTAGACTTGTTTTTCCAACCAAGCATTATCCCCATGCT
1395 CaSNP3367 GCCCTTATATGTTATTATTGTTATTTGTACTATTTACTATTACAAATGATGGTGAT [A/T] TATTCAAGAATTCTAATTTGGGGGTGATTAGTTCTATAAATCTTCTCAATGTTTGTTTTT
1396 CaSNP3368 TTATGGTTAATTCTAGAACCCCGTAATCTGGTATTTTTCATTTGTTTATGTTAGCCATA [A/G] CCCTGATTATAGATTGGAAGTCTAAAAATAAATTCATGACTTTTCTCAACTATAACCGG
1397 CaSNP3369 GGTCAACTGGAACCTGCTCATCATGGTGAGGTACATGATCATCAGTTACATTTCTCATCCT [T/C] TACCCGTAGATCTCCCCATCAACAATGGTTTCTGCGAGGGGGCTTAGGCGCAACATCAAT
1398 CaSNP3370 CAACTGCATTCCTACTCTTCAAAGTTAAACAAAAGAATAACCTAAGAAAGATGTTTGT [A/C] TCAAAGAGTGGGTGAACACAAATGTACAAAAAGATCCTAAGGGAAAAAGAGCATATAGC
1399 CaSNP3371 AGGACATTTCAATTTACGTCGTAGACTTAATAGAGCTACTAGTGTAAACGAGTTAGATTCA [T/G] ATAAGTAAATGACAACATGCAAAAATATGGATGGTGTGAATAATAGAACCTTAAGACAAC
1400 CaSNP3372 CTTGTATTTAAATAATATGGTCCACTTTTACAAGATTACCCCTAAACCGTATTGCAGGGA [A/G] TTTTGCCTGCTCCAACGATCTGTCCACTTATCGGTAACGATGAGGCCATACCCAACAA
1401 CaSNP3373 GAGAGATTGCACTCTAGAATGTGATGATCTGTGAGCGATTTCACTCTAGAAAATGTGCT [A/G] GTCTGTGAGCGATTGCACCTTGTATGTGCTGCTGGTCTATGTGCGACTGCACGCTAGTA
1402 CaSNP3374 AGTAAACAGTCTGTAAGGCCAACACAGGGAAGTCTAGTATGTGTCTGATGCAGGAATA [T/G] AGGTGTAATGAGCAATTCGAAGGTGTAGGAAAGAAAAGTGAACCGTAATAGCTCAA
1403 CaSNP3375 AAGAGACTTAGTGAGGAGACAACAACAACCAACTAGAAGGGAACACACAAAAAGCA [A/T] GAATAGTTGTATTACAATCTTCTGACAATTATACTAAATAATATTGACTGAAATATAGAT
1404 CaSNP3376 TATTTTAGATTTTTGTGTTTATCTCAATTAATTTATTTGTTGTTATTTTACATGTTT [T/G] GGATGGTCGACCTTTGTACGCCTTAATCAATCAATTGACTAGTGACCATGTACAATTAAT
1405 CaSNP3377 AAAATTAACAGTGAATTTTTCAAAGTTACCACCATTTCAAACATACATTTATATACAATA [T/C] CAATCTTCAAAGTTTACATTTCAATTTTACAACCTCGAGTTTATCAACAAAGTTTTCT
1406 CaSNP3378 ATTTTGGAGTTAGGATTATTTGTCTATCATATAGGAGGGTCTGACAACCTAGTGATTC [A/G] GGAAGTACAACCTGAATGAATCTGATCGTGGAGGATACAATCGAACTATAAGGTAAGAC

1407 CaSNP3379 AGAATTAAC TAATCAAGGCAAATGCATTATGACTCTGATCAACCCAATCTCAACGCAACT [T/C] TGGTGAATTTGACTAATGCAAGCTCACTTTGATAATTATGGTAATCCAGTTGATGTTTGG
1408 CaSNP3380 CTTTCAACACTGGGGTAGGATTTTAGATGTATATAGAAGCTCATTATACCGAGAAAATAT [T/C] GGAGGCTCTAATATGCACCATAATTGGTTGAAGCCGTCTTTATACCATTTTAAAGACTT
1409 CaSNP3381 AAGAAAGTCATTGAAAATGTCAGACCGAACGTGACAAGAATAATATTATATGTTGTGCGT [A/C] TCACATAACCCATATCAGGTATGGACAACCATTATCCATGGGTTGAACACCTAAGCCGG
1410 CaSNP3382 TACTGATTATACGCGATGATGTTTGATTGTGATCATTACTTTGCACACTCTTCACCGTC [T/C] GATTATATCATTTGTAATTTTACTAACTTCTGCAATTTCTATCTCCACTTCACTTTCCCTC
1411 CaSNP3383 ACAGATGAATAAACTAAAAGAAAAATGGAATGAGCCGATTTGTACATTGGTCCTCATA [T/G] CCCATAGTAATTGGGTTGGGTTAATAATTTGCAACCCAATACTAAATAGTTGCATTTTA
1412 CaSNP3384 TGTTACCTCTATGTGAAGTAATCCTTGCAGGGCCCTATAGGTCATATGAGCATATTCCA [T/G] AATTTCTTTTGAGCAATGTTCCATGTAGAGAACTTGACCCATATGCATCTTTTCATACAC
1413 CaSNP3385 ATCAGCAACTAGCAAAACAGAAAAGAGTAATTAATTGTACATAATTGAATATAACAG [T/C] TATGTAACCTCTAGCCGGTACTCTTATCATTATCAATGCTCAATAGGTATTTCCAGTTT
1414 CaSNP3386 TTTTCAACAGCATCTCTTAACTGCAGTGCATAAACAATAAGTAACAAGTTCGGTATGAAA [T/G] ATTATTACTATTTATAAAACAAGGAATTGCAATGTAACCTTCTTCAGTTCTGGACTAAT
1415 CaSNP3387 TTCAACACTCTTGCTCAAGATGGGCATATAAGTTGAATTATCTGAGCTTGAACAAAATAT [A/G] TTGAATTTGAGAAGCCTTAAAGGTTTTGTCAAGATATATGCAGGTAGATCGTTTGGAGCTA
1416 CaSNP3388 ATGTCAAGAACATCCTAAGAAGTCTGCCTAGTAAGTGGGGACTGCAGATCAAACTATCC [A/T] AGCGATCATAAATGCTGTATAAGAAAGTCACTCTAAAATATCCTGTCTAATCTAAC
1417 CaSNP3389 ACTTGAGATAAATAGGTAGACTTGCCATAACTCTGGCAGATCCAGTGAGCTAGTGTAAC [C/G] GCTCCGGAGAACCAGACGAAAGTTTTGCACCAACAGCTGGGTTTAGACCGGATGGAGAT
1418 CaSNP3390 GCCTCTTACCCTATGCAATTGAAGTACCCAGGTTTGTGCATCTAATTTTTCGTATGAA [T/C] CAATTAGATCTTCATGTTACTATTTTGTACTTTTAAAATGTTCAATTAGAGCATATTTG
1419 CaSNP3391 AGACTAAGTGAACAAAAATATAACGATCTAGTAGACATTATAAACTAATAAATGAATCAT [A/G] AGTATGATCGATCAAAGTTGACCTTCTTTACCTCATTTTCTAACTAAATAGACCGAAGA
1420 CaSNP3392 TCTGAATCTTAACTCATAATTTCTTAATATAGAACAATACAAGTCAAATCTTTTCCACC [A/C] GTTAGAGTCAGCTAATTGGATCAAACGACACCACACATTTCCCTATCATGAATATAGTTT
1421 CaSNP3393 ATGCTCAACCGAGAATTTGAAGAGTAATGTGGTGTGATCAACTGCGATTCCCTTAAAAT [T/G] GAAGAGTCAAAGGAAGATATAATTTGTCATGGCTTTAGAGAAATGTTTGGAGCTCGAAGACT
1422 CaSNP3394 TTTCTCTTTTGTACAGAATACTTATAATGTAACATTTCTATGATTAGTGCTTATGC [T/C] ATATGATTGTAATGTAGTTATTTATGCAAACAGGACCTTTATATCATCAAAGTTGGTCTA
1423 CaSNP3395 ATAGTTTTTTAAACATAAACTTCTCCACCAAAATATTCGCTCGTAATGAGAATTTAATTCA [T/C] GATGCTCTACCACACGTTCTTGATGAATGAATGTCCAAAATTTCTCACTTATCCATGTA
1424 CaSNP3396 TATATAGTTATCTGTTTTTGTGAATATGTAATGTAAAAATATGTAATTGTGTCAAGTT [A/C] TATAGTTCTGGTTATGTTGTGAATTTGTAATGTAAGTTATATAGTTCTGGTTCTGCATG
1425 CaSNP3397 GAAGAAGTCTGATAGCATTAAAGTTATTTGAAGTCATGAAAGCCAAAGGTCGCGCCGAA [T/C] GTTCACAGTTATACAATATTGATACAGGACTTGTGCAAACAAAAGATGATGAGAGAAGCT
1426 CaSNP3398 AAATGATATTTTGTACAAAGATCTAACCTTGACAATTAACATTCGTAAACAACAAATCC [T/C] TATAATCGTCACATGTTTACCATAATAGGTGTGAATTAATGTGGGTAAAATAATTGAATT
1427 CaSNP3399 TGCAATTTGGATGATAAAGTACAAAGTACAATAATAACCATTGATAGAAAAGACAACACT [T/G] GAGATTGTAATAACTACATGCACATGGATAACAAATATGATGTTCAAATCTAAACCATT
1428 CaSNP3400 AATACAAGAGTTTAAATTCATGCAAAATATAGAGTTGATGGCATGTGACAAATTAGTAGT [T/C] CTATGTTGTAATAAGGAATGTTGTGGTTGCAAGTTGATTGCATGGAGCAAAAAACAAGT
1429 CaSNP3401 TCTAAGCTATCTTTATTTGTAATTTAAAAGATCAATACAAGATACCAACACACTATTAAT [T/C] TGCAATCTTTGACGACATGAAATTAACTACTGCAAGCAAGCGGTACTCTTAACTCAATG
1430 CaSNP3402 CTCACACAAGAAACATCACTATGAAATATAGAGTTGTGTCAAACAAGAAAAATAAAACCA [C/G] GGCATCTAAAACATAAATTAGCATATATCAATAGTATGAATCCTGTCATCTGCCAAGGT
1431 CaSNP3403 TTAATTAAGCATAAATGATATATAGTAATTTAACATAAAATAGTTGCAATGATACTAAT [T/C] AAACATGAATCGTACATACCAATTCACACATAAATGAAACACACCCATAAAACATAAAATA
1432 CaSNP3404 ATATATATATATGAAATATGAATATGAGCTATGAAGTACGTATATTGACTTAGACAACA [A/G] ACACGATACTGACATTGACACGTCACCTTTGATAATAATTTGAAAAAATGAATTAATTGA
1433 CaSNP3405 TTATTCCATTGTATATATATCTTATTTTCACAATGTTATTTCAAGATTCAATATATTTTT [T/C] TAATGTTTACATTCTCCATTCTTGATATGCTATGTAGGACTACTTCAAGCAATAGGTAG
1434 CaSNP3406 CAACAAATCTCAAGAAGATGCCATTCTAAGTTGTGTTAGTATGACCAAATGTCAACATAA [A/T] GATCCTACAAAACATATGGGGTCCACCCGGAACCGGAAAACAAGACAGTTGCTTTA
1435 CaSNP3407 GATGCTCAATTAGAGGAACTGCACATTTGTTAGAAAATTGATGAGATTGTAACAGTAAA [T/G] GTGCAAAATTAATTTGGTATGTGAAATGAGTTGGAGATACATTTCTCTCTATTTGTAG
1436 CaSNP3408 GATATCTTTACCAACTGTGTTGTGCCAATGATTTGGCTTTACCGTTTTCTCTCTAAAGT [T/C] ATTGAGCTTCCGTTGATCAAAGTTAGGCTTTGGAACATAGAATTTTCTCTGTATATGT

1437 CaSNP3409 CTGCACATGTAGTTTGAAGCAGAGAACAAAAATTAATGAGGGCGGTTTCATAATTCTCAA [T/G] GATATAATATAGTTGAAAAAGGTAAATTAATATATTCATAGCATATAATACTTAGCAATA
1438 CaSNP3410 AATTCAGATGAATATTTGAAGGGACAAGTTGGAGATGGTCCCTTGATCGGTATTTCAAACG [T/C] CCGAAAGGAAATGTGGATCCTACGTGCCTAAAAACAGATTTCATACATAGTAATTTGTACAA
1439 CaSNP3411 ATTAGAGACACATTACACAATGAGTACCAAACACTAATAAGGAACAAAAAGCCATCCTT [A/G] CTATAAAAACGATACTTGTTTTCCCTGCATGGTAAATATTATTGTATTTCGTATTTCATGATA
1440 CaSNP3412 AAGTGGAAAGAGTTGAAGTGTGGATAAGAGTGTACCAATATGGTTTTTCAGCCATTTTGT [A/T] CTCTCTAGTAGTTGTTCACAACACACTCTCCTTGTGTTTTCAAGCCCTTCAATCAAATAG
1441 CaSNP3414 CATTAGTTGGCAATGACAGCAGTAATACCAATATAGTGATGTAGGAGACTTGCACTCAAT [A/G] AAGATATCGTTCAAATTCAGTGAGTGATTGATGTCAAATTGAGTTGGATTTAACTAAAC
1442 CaSNP3415 TAACTTATCCACTTTTACTAACACATCCTCTATTATCCCCTAGGGTGGGCAATAGATCT [A/G] TTAGCAAGTTTTAGAGAAATGTTAGTTCGGTTGGAGTTTTTGTAGGCCCACTTCTCTAAAA
1443 CaSNP3417 TGGAGATGGGTATGTGTTTTGATGAAATTTGGATTAGTGTACGTATCTTTCTGAGTATT [T/C] GAATGGATTTCTGGGTTTGTGGGATGAAAAGGTAAGAGATGAAAGGGGATAAATGATTA
1444 CaSNP3418 ATATTAATAAATAAATGAATAAAAAATATCTACAAGCTTAAAAAAGATTATAATGTCAA [T/C] TAATACTTATTAAGAAATGATAAACACATAAAGTAAAAGAAAATAAAAATAAACAAATA
1445 CaSNP3419 GTCCAATAATCCGCTTGTGTGATTACTTTTTAATGTAATGTAACAATCCTCATAACTCTTT [T/C] ACATCCCAACAATGGGATTAGACGGTGAACGACTAATGTGATTTGTTCTTATATTGAAA
1446 CaSNP3420 TTCTCTAATTTCAATTAACATAATCACCATCTTTGTTGTTGAGTTCGCACCACCATCATC [A/C] TCTCTCGACATTTCTCTGATTTACC CGCAATCAAACCTCATTTCTATAAATTCATTATTTTC
1447 CaSNP3421 AAGGTAATACTTTGATTGCTTCTAACCTTGCCACAAGAGCAAGTTTTAGTATAATCAATA [A/C] CTTTTATGTTGACTATAGCCTTGAGCTACGAATCTACCTTTATTTCTTACTACTTCACCTT
1448 CaSNP3422 ATTACAAGGCCATCCTTGAATTGGGCTACCTTAATACCCATAAAAAATAACAGAGTTTACT [A/G] AAGTATTTAGTCTAGAAGTATTGAAACGATGTTTCAACTGGAGTATTCTTTCTGATCA
1449 CaSNP3423 TTTTAAACACCAGTCTCCAAAATATTAACATCATTCTCAAGTGTGAGAATACTCAAATTC [T/G] GCCAAACACTCTAAATCATTATTGTGTAAACTCAAAGCTATAAGTGTACGTATAGTTTT
1450 CaSNP3424 AAAAGAGAAATAACATTTTTATAAGATAAATATCGACTTAAAAATATTAATAATTAATCAAT [A/C] AATCAACGCAATAACTTTTTCTTAAAAATATGAGAATATTA AAAAGTTATTTGAAAGATG
1451 CaSNP3425 TGTCACGAAAAATAACTATACGGTGCAAAATATAAAATAAATTTACGTGCAATGTTCA [T/C] AATCCCACCAGCAACACTTGCAATTACATTCGTGATTCGACCCAGTTTGAACCGCGA
1452 CaSNP3426 GAATAAGAGTCACACGTTGGATGAAAAAGTAAATGTTGAATAATATATAACTGAAATGAC [T/C] CATATAATCAATGCCTTAAAGTTTTAAATGAAGATATGATATCTAACTCACTTATGTGAT
1453 CaSNP3427 ATGTTTTGTTCCAACAACAAGATCAAAACAATCGATTGCTCAGTCGACTTCATAATCACA [A/G] TCATAATCGATTGGCATTGAGCTGAATCCATTTTGTAACTTAAACATTAGCTTCAATCG
1454 CaSNP3428 AGTTGGAATTGGTTCAATCAAGTTGAAGTTGGAACCATTAAGATTTTGTGCAAGGTTAGG [T/C] ATGTTCCAAAACATAAGAGGAATTTAATTTCCCTAGGAATGTTGGAAGAAGTTGGTTGTT
1455 CaSNP3429 AGAGTATTTATGACTAAAAATAATAAGATAAGAGCTAGCTTTATTGATGGATTACTTTA [A/G] TTTGTTGATTTTCATGAAACTCACCTGCTCTAATGATGATATGATCCGAGGCAACATGTTA
1456 CaSNP3430 AAATGATTTTGGTTCAATGGCAACCTCTTTCTATTAGTTATTTCAAGCTCAATATGTATG [T/C] TTCGCATATTGGAACCTCGAGAATTTTCGGCATGTGGAAGTTAATCATAAATTCATG
1457 CaSNP3431 TACAGGAGTAAATAAGGATGAGAGGCTCGATATAAGACACCCTACCCCTAACTCCTA [C/G] TAATACAATTGATCGGATCTACACATTATTCATCAAATAAACAATGAGGTGATTTAGACC
1458 CaSNP3432 AGTAACTAGTTTGTATCCATGAATTCGCATAAAGGAGACATTGTTGCTATTTATGTTATG [T/C] AATTGACAGACGCTTTATATATTTTCCCTCAGTAGATAGCTCCTGTCCATGGTAATCAA
1459 CaSNP3433 TTGCATGTTGATATTGTGCTATCACATTGATAGTTAGAAATCCTAGTATCCTTCAAGTTT [T/C] TCTATAAAAGGACTTGTGATCTTTACTGCAAAAAGAACATACAAGAAACCTATTATTGTC
1460 CaSNP3434 CAGAAAGTGGTGTGTAAGAAGCATCATTTTTCACACTACTTTTAAATTGAGTTTCCCTTAG [A/G] CCTTACCGCACTTGATTTTCCATCATTCATGTATTA AAAAGTTCAGTTTTTTCTTAT
1461 CaSNP3435 AAAGATGTAGCATTATCATGTGACAGTATCATACTTTTGAATATTGCATGTTTTATGTTG [A/G] TAGCATTGAAGTCTAGGATTGATACATAAGATATACTCTTGCTATCTATGTGGAATTAAC
1462 CaSNP3436 TAGGACATGCATATCATTTTCATCCTCGTGACTGTTCTATTGTGATTGATTTAGATTAACC [A/G] TTGATATTATGATCTTGAGTGTTCATCATGTATATGTTGATTTAACTAAGTGTGCGTTAT
1463 CaSNP3437 ATGAGCAGCAACTTCAAGAGACATTA AAAATTTGATGCTGGCAATGAAGTAGACATTGTA [T/G] CCTGATCCTGACAATGAAGAGAATCAAGTCTAAAATCAGGGAAGGATCCATTATGTTAG
1464 CaSNP3438 GTCCTAAAATATCAATACATAAACACCCACAGAGAAGTATCAAGCACATTATACATAATG [A/C] TATAGCTAGTGAGATTGTTTTGTACGAAAGCAAAGGGTTTGGCCAATTCATAGCCAAGCT
1465 CaSNP3439 AAATTTATTTTTATAAATTTATGTTCCATTCATCCATAATCCATTACATTTTACATTTT [T/G] AAATTTGATTTGGTAAGATATTTCATTCACATTAGTTTTATGAAAATGAAATACAAATA
1466 CaSNP3440 TATGACAATATTTATGTCAAGAATATTTTTAAAATTTTTAATATAGATCGGGTCAACAG [A/T] CATGCGGTTCAACTAGCGACCCACTGGTTCGACCGACGACTCAGTACCTTGATCGGGTGC

1467 CaSNP3441 CTCAAATGCAAATGTAGAAAGAACCCTAACAAAATCCAAAGGTAAAGCATGCTAAACTCA [T/G] ATAAAAACAGTAAAGTGAATATCCTCACAAGTTTAGGGAATACATAAGAAACATATATA
1468 CaSNP3443 TATTATTAATATTAGTTTCATTAGGTTGACCTCTTCAAATTGAAGTTCTTTTAATAACT [A/G] TTTCAACCAGATGAGTTCACATGTTACTAGTGTATGCGCTAGTATTCTGCCTTAGTGCT
1469 CaSNP3444 CCAATGTATGGTACAAAATGGGATCCGGTAAGGGAACACCATCCGAGGGAGCATATTTCA [T/C] ATTGAACTTAAGAGGAGTATCTACTGCTCTAGTATCTGAAAGACGAGCCTGGTCAAGAAT
1470 CaSNP3445 TGGCTCTGAGATAGATTTATGAAAACAATTTATAGCTTTTACAAAATTAGTTTGATTTTA [A/T] TTTATCTTTTGTATTCGAAATAACGTATACATAAGCAATTATACTAAAAGCGCTTATGCT
1471 CaSNP3446 CTTTTTGATTTGATTAATAAAAATTTACAGGATGATCTTAGTAGTTATGGTTTGGGGAGA [T/C] GGTAAATGGCGATGCTGTGATGTTTTTCAGTTGAATTTTTACTACATCTCCTTATCCCTCAC
1472 CaSNP3447 TGGTTAAATTATTGAAAAATAAATATCACTTGAAGAAATGAGATAGCTAGGTACACAGAA [A/T] AAAATTCCTGGATGAAACGGAAGGATATAAAAAGATAGTATAATAAAAAGCAAACCTGTT
1473 CaSNP3448 ATTTTATTCCTTCAAGTATCAATTCATTCAATAAAGGTGATCTTGTCTTGATGTCAATTA [A/T] TATTTGTTTTAAATTTGAAATGACACTTTCACAAAATCAATTTATGTTTGACTTTATTTA
1474 CaSNP3449 CCAGCCACAAAGCTTCTTCAGTTTGTATACATGATCTTATTTGCTTGTTTTACATATC [T/C] TGGTGGCTGCTTCACATAAACTTCTTCTTAGTGATCCATTGAGGAATGCTGATTTGAC
1475 CaSNP3450 CTGTTTCTGAAATCTGAAGATACAGGAATGTGACGCATCATTACATATGGAGATTTTATA [T/C] CAATAGTTGGTCAAATGATTAACGTCTACTACAAGAAATAAGCAGACCGGACAACCTG
1476 CaSNP3451 AATCATATCATCAACATACAAAGAAAACATAATGCGACCATAAGTGGTAGAACTTATAAA [T/C] AGTACAAAATCATGTTCACTAAAGCAGAAACCAAGAGAAGTGATCACAATAGAGAATATC
1477 CaSNP3452 TAACATCATATAGATCATCTTGACATTTTAATTCAAAATGATTAATAAATGCATAAAACAGT [A/C] AACAAATTAATCAATTTATACATAAATGTACGATTAACACACAAGATAATCATATTTGATA
1478 CaSNP3453 TCAGAGATCTATTGGTTACTGACGGAACAAACAAAAGATATCCTTTTAATGTTACATTA [A/G] AATTATTGAACATATAAGTAACTTCTGCTTTGATTTTGGTTTTTAAATACTTGTATTCT
1479 CaSNP3454 AGGTGGCGTAAAATGGATCTCGTGCCTGCAGCTGTGGAGGGTGTATGGTAAGGATCTA [T/C] ATAAGATGGCTATGATTTATGGTTCTAAAACATGAATGGTTCTGATAGCGTGTGGAGAA
1480 CaSNP3455 CATTAGTGCAATTTTTTTTCTCACAAAGTACATTTGTTATCATCAAACATGATAAAGGA [A/G] TTGTTCCTAGAACCAACCTTGTTTTCAACATCCCTTACCTATGTTTTTTTTCTGAAACAATC
1481 CaSNP3456 ATGAAATTGATTGAAGCTATACATTTATGGACAATGCACTGTGAAACATGTAACGAGAACG [T/C] TGGCTTGGGGAATAATGTGAAATATGCGTCGAAAAATCTTGTATATACTTATGATTTTG
1482 CaSNP3457 TTATTTATTTATGACAAATCGCATCTAAATAGCGACACTCAAGACCCTCTCTCTAAGACT [T/C] TAAATGTTGCAACCAAGATCACCTCTACTTTCTGACAGACGTGACACAATATATATTA
1483 CaSNP3458 TTTAGAGGCATATACCTGATGTTTGAAGGTGAAAACATTACTAAAAGTCTACAACGAAA [T/C] GTTCAAACCTATATATCAAACAAATGATATTGACCCCAATATGAATGTGTAGAGTGTTA
1484 CaSNP3459 GCCTTCCGTTGAGGTTTACATAAGTGTGTTGTACCTCTTCGGGCACCTGTTTCGGAGTGAGA [T/G] AATTATTGCTATTGTCGGGCTAATTTACATTAATTTCTAGTTCTGTTGTGAATTGACACAA
1485 CaSNP3462 ACTCCAGTCCCTGATCATTGCATTGCATTTTACATGGTATCAAATAGAACCCTATACA [A/T] TACTAAGAACTCAAATGTACACTACACAGTGATGGCTAAGGCTCCTCAGTGTAAAATA
1486 CaSNP3463 TATTTTAGTGTGACCTTCTTAGAGCAAATAGTACAAAAATCATCAGAGGGATCAAACCT [A/G] GGTTCTATTACTTTTTCTTAAAATCTTATTCCTCTTTTATTATTCTACTAATACCGTAA
1487 CaSNP3464 CTATTCATTTCAAACCTCTCAAGCAACTCACCTATATAATTTTGTGTTGCATAACCATT [T/C] CTGTCCTTATCTTCAGAAATTCATGCCTAAGAAGAATGAAAGCTCACCTAGATTAGTCA
1488 CaSNP3465 TTCCTTCACGCTTAAAGTTTTTGTAGTGTGTGGAGACGAGAGAACTATCTATATCCTC [A/C] TAGTGGTGTAAAAGATTTATAATTTCAACGGGACAACCTACGCTTATATAGTGAAAGAAA
1489 CaSNP3466 ATAAATAAAAAAAGACTAGAAATATATATGATATATAACGAAATAAACACTAAATAAC [A/T] ATTTCAAGTAATATAATGTGAATTTGGCATATACAACAACAAAATACATCTTATAAATAA
1490 CaSNP3467 TTGCAACAAAAATATAATATTTAGTGGTGTATAATTTACCAACAAAAATATCATAATTA [A/G] AATTAGTGTACGAATTTGCCCTATGCCTTATTCAGAAGAAAACCATAAACAAATCTTT
1491 CaSNP3468 AAAGATGTATATACAATTCGGATAGAGTTTGACTTTATTTATTAATTTTATTGCTCT [T/C] TCACTCACATCAACAATTAATAAATGAAATATTTTTATTGATGATGGAATACCGTGTGGC
1492 CaSNP3469 GGACAATTGCCTACAAAACAATCTATGTGGCGATAAACATGGTAGCAGCAGCCAGGGAAC [A/T] CCTCTTCTTTTCAAACTTCGATGAACAATGCTTCACCTGGAATCATAACCCAGAAAT
1493 CaSNP3470 ACCAACAACCTAAGATGGTTTTTGGGACAATAATCCAAAGTATGCAAATAGAAAATACAC [T/C] GGGGCTACGAGACCTATCAGACATTTGATCATACCCCTAGGTTATCTCGGCAGACATTTG
1494 CaSNP3471 ATATTTGACTCAGACTTCATCAAGCCGCTTATTAAGCTCAACCAAGAACATGAATACCC [A/G] GTCGTTGCTCTGCTCTTAAAGAAACAAAACACTATCCTAACAAAACCTCCAATGTTTCATC
1495 CaSNP3472 GTAGGTTTACTAGAACTAGAGGAAGCAGATGTAGACAAATCAGAAGAACCCTAAACAATCA [T/G] AAGATGCAAGTAAATTAGAAGAATATGACAAACCATCAAAAAATGACTATGACCAAGTCA
1496 CaSNP3473 AAGATGGGTATGCAGAAACAACTGGATGAAGAAGGTAAGGTTATAAGGAATAAAACAAG [A/G] CTAGTGGTTCAAGGTTATAACCAACAAGAATGTATTGATTATGATGATACTTTTGCTCTA

1497 CaSNP3474 AGAATTTGGATTTTCAAGGCTGAACAATCTTTGATTATTATCCACACCTGATAATCAA [T/C] GTCTTATTATTGTTGCGGTACATATGGAGAAGGACATTGTTCCCTTGGTTCCAAATGCTAT
1498 CaSNP3475 CAATCAATCTCCATTAGTTCAAAGAAAATTATGCCTCTGAATTTTATACTAAGATTATCA [A/G] TATTTGGCAAGGAACACGTGGGATCCATTTAATTCAAAGAAGGCATTCAAATCACTAAAA
1499 CaSNP3476 TCAAATTTAACGTAATTAATCTAGTTTTCAGAAAATCAACAATCACTCGAATATTATGT [T/C] TAGTGATAAAAGTATGACTAAAATATCACATATATGTAATGTGAATTTTAAAGCTGACAAC
1500 CaSNP3477 ATGAATGATTCTCAATTAAGAAGGTGATAACAGAGCTGCAACAAGACCCCTGCATCCCGA [T/C] CGGATTTCCAATTAATCAAAATGGATACTTTTCTACTGTAGCAGACTGGTATTATCGTCAA
1501 CaSNP3479 ATCCACATAAACCTCTATCTTCCTCTGCATCATGTGCATGAAACAAAGTTATGATTGCTCT [T/G] TCATAGGTTGGAATAACATTCTTCAATCCAAATGACATCATTTTATAGAAGAAAGTTCCC
1502 CaSNP3480 AATGATATGGACCCCTCTTTTTGATTCTGGCTAGTGGTCTAGTGATAATGAATAATGACA [A/G] TGTGTTTGTGGCCCTTCTTTTTCTACGGTGGAGTGTCAATATCACATTTCCACACTAT
1503 CaSNP3481 TTTTGAAATATACATACATATGCTTATATTGCTGGACAAAAGAGTCTCTCTAATATAGAT [A/T] TCTCTAGAAAAATCCAAGGTGGAATCATACTATTTTCAGTAAAAAGAATATTATAATT
1504 CaSNP3482 TAAAAACGTCAATTTAGTCCATTGACTAAACAAATAAATGACTAGCACATTTAAACGA [C/G] TAAACCATTATCCAATTATTAATTCCTCCCTCAATTTTCATGTTGGGTGATTGTCAAT
1505 CaSNP3483 AATCGCCAAATAAAAAATTTTTGTTATGAAAGTAATCCACTTTGAATAAACACTTTGG [A/G] CACAAGCGTAGCAACATGCAAGGTATTTACAACAAGCAAAATGAAACCAACTCATAAATT
1506 CaSNP3484 TTGAATGAGTGTTTTTAATGGATTGAAACTTTTACTTTTATTTCACTGCTTTTTATT [T/G] GGTGCTGATTATGTTGAACGAAAATAGTTTTAGTAAAACCCCTTATCTGTGCTATATT
1507 CaSNP3485 TTAAATATATCTAAGTATAAAAAATATAAATTTTTCTTAAAGTTTTTTATGTGTTTTT [A/G] TATAATGAAAAGGTTGATACACAATAATGAATACTAACACGAAAGAAATAGATATAATT
1508 CaSNP3487 TTTTGTCCTCGATGTTGCAGCTTATAGACGTCTCATTGGTAGGTTGTTGACCTTACTA [T/C] TACACGTCTTGACATTTCCCTTGTCACTCAATAGTTGAGCCAATTCATGTGCTCACCTAC
1509 CaSNP3488 TAATTAACCTCTTTTCAAAAAAGAATGATATTACACACTGATTTCTCAACAACGATA [A/T] CAGAGTGAAGGTTTAGATGGAGGAATAGAAGCAATGTATCATGTCATAAAGAAGTTTTTG
1510 CaSNP3489 TAGATTGTTGAAGGCATACAAACACCTTGACCCCTACAAGTCAAGTATTATCAACACAATCT [A/G] ACAATCATAGATTGCTTGGGAACACTAAACCCACTATCGAGCTGGGTTACAAGAGTTTT
1511 CaSNP3490 AAAGTATTGAGATTGTAGTTTTTCCAAATGATGGATACAATAAACTAACATTCTCTAAG [T/C] TATGAGTGTAAACTCTTAAAAATCAGATAAATAATTATACTAATGTTTTCTTTCAAAG
1512 CaSNP3491 TGTGTGCATGTACACTCCCCTGACAGATCGTTGATGGAAAATAATCAAAGCCTCAATTTT [A/C] TGTTGTTGTCGTTTCCTAAGTCAAGATCTTATATTCAACTCCCTACAATGAACAGTG
1513 CaSNP3492 AGACAACCTTTTCGAGTCATCATCCATAGCCTGGTTTGTAGCATCATTGCATAAAAGGAC [A/G] CATGCTATTGCGCTGTTATGAGTCCAAACTTCAGCCGCAATCACATTGAATTGGAGGCTT
1514 CaSNP3493 TGTGTCGTACCAAATGATCTTACTCTTCTAATCACCTCCAAGCATATGAATCCTCCTTT [A/C] TTGAAGGTCAAGTCTTGAACATAGACTTTTCTCCGTTGTGTCGTGAGCATCCACTGTC
1515 CaSNP3494 TATTTTTCTTGGCTACTCGCCTCACAAAAAGGATATAGATGTTACTCCCAACAACCAG [A/G] AAAGTTTATCACACTATGGATGTTACCTTTGAGAACCACCTTATTACTCCAAAGTTTGA
1516 CaSNP3495 CACACATCATCATTGCAATCTGATTAAGCAAAGAGATCAGTATGTAGCTTTATTATCAA [T/C] TGGTCTATAAATGAAATCAGTTAAGGATTTAATGGCAGAATTTGAGCAGCTAAGTCACA
1517 CaSNP3496 ATTACTCATTGTTGTAATCAAGTAAGTAATAATCAACCTTTGTTTTGTTGTTGTTGTT [T/C] GTGTTTTGTTGTCCTGTTTATGAATGCAATGCCTGAAAAATTGAAGAAAAAGTTTTCA
1518 CaSNP3497 ATTAAGACTTAGGAATCCTAATCTCGACGATCCAATCATATTTTATCACCTAATTAGACT [A/T] ACTATGACTTGAGAATCATAATCTCAATGGTCCAATGACACAATCTAACCTAATTGACT
1519 CaSNP3498 ATGTAAGGAATCCAGTTTGTCCATGACCATGCGATTTGAAACGTGATCATCATCAGATGC [A/G] GTGCTTCTGCTTCGTCGCTGCTTGGGTAGCAGTAGAAGGTTGATCCAAATCACCTTTA
1520 CaSNP3499 TTGCTTTAGTGTTCAAAATATAGCATATACAACCAAAGTATAAAAAATGAAATGTCA [T/G] ACTTTATTCCTTTCCATAATTCATAAGGAGTCTTATTGCGAATAGTTCTAATATAGATTG
1521 CaSNP3500 AACAAAATCATGATTATCAACAGAAAGATTTACAAGGAAAATGTGGAATGGAAAAGGGTA [A/T] CAAAATATGATTATATTAATTAAGTAACCTTTGCCTTAAATGGGAAATTAATGATGAAGA
1522 CaSNP3501 AACAACTAGTGCAATCAATTTGCATGGTAAAGGGGATATCCCAACAACACTAGCCA [T/C] ATGTTAAATGAATCTAACAACTCTCCCCGTGATGTTATGCAGGTGAACCATGTTGGTC
1523 CaSNP3502 CTGACCCCTACAAGTCAGTCTTCTCAAAAATAACCTAACCTACAGACTTTTTAAGGAACA [T/C] AAACACCTTAACTCTACAAGTCAATTTATCTCAACACAACCTGAAAACCTACATATTGCT
1524 CaSNP3503 TAAAGTAGGATACAAATAGCTTCTAACTTGGCCACTGGAGAAAATGTCTCAATGTAATCA [A/G] TGTCATTTTGTGAAATGTAGCCTTGTGCGACAAGTCTTGCCTTGTTTTTGACCACTTCCAC
1525 CaSNP3504 CATTACCAATCTGTGCGTATTATCAATTAGTTTACGGCGGATAAATGGGCTTGTCTCGT [A/G] GCCTCCGATGATGACTTGGGCGTGGGTTTTTTTTAATGGAATCGACGGTTTTGCAAAGGTG
1526 CaSNP3507 ACTTGTAGTAGAAACAGTAACAAAATAAGAAGTGAAGAATAAATGACACAAGTAATT [T/C] ATTATGGTCTCCACTAACTTACTAGATGCAGTCCCTTCACTCAAATGATTTAATCCA

1527	CaSNP3508	GAGTCGAAAAATGAAGTTTCAAGCAATAAAATAAGCTCCGACGGCCTAATCAGAATCCC [A/G] CTCCACGGAGAAACGTGAAATTGGCTAGTGACTCGGAGTTTGGTTTAAAGAGCCAAGGTG
1528	CaSNP3510	TTTTGATCTTGAATTTTTGGAGAATTATTATGCTGAAAATGATTTGAATGAAGATGAAAC [A/T] AGTGATGATGATAATTATGATGACGACGAACATTTGGTTAGAAACAGAAATTGATTATGAA
1529	CaSNP3511	CCATATAGTGATTTCTTCAACTTATATACTTTCTTCTCTTGGTTATTTATCTCAAACCC [A/G] GGGGCTGCTCAATGTATACTTCTTCTTCAATAGGCCCATTTAAGAATGATGACTTCACAT
1530	CaSNP3512	TGCTTGATTTTTATGATATATCATCATGTGATGACATATGCATCTTAGTGGACTGTGTGG [T/G] AATATTTTTATTTTGATAATGCACCATTATGTGATGACATATGCATCTTCGTGGAAGTTGC
1531	CaSNP3513	TAATGTTTTGCTTTATATTCTCTCATTTTGTGAATTGGCACCACAATGTTAAAGCATT [T/C] ATTTTGGTATTGAAATTTGTTTAGAACATCAAAGTAGTGAATAGAGGATACTAGCATGTG
1532	CaSNP3514	GAAAAATAATATTGAGAAGCTTAGCGATTCTGGGGAAGTACAACCTGAATGAGTCTAATCA [T/C] GGTGTCTGTGTTGAGCCTTAAGGCAAGATTGTTAGACCTTGGAGGTATTCGGGTGGGG
1533	CaSNP3515	TCAAGAAAATTAATTAATACAAATCTATGACCCACCTTTCTCCATGGGTAAGATGAAG [T/C] TTCGGGTATTCTTTTAAACACAGATTTCACTTGTCTGCTAATTCATCCATCTCTGTGTA
1534	CaSNP3516	TTTTTGTCAAATCAGACACAACTAGAACTGATGTAATCAGCCGATAATGGCATAAC [T/C] CTCTCATTCTCAAAGAGGCACCTGAAAAGGTACAACATCCCTTATGAACCACAACGGCAT
1535	CaSNP3517	TGCCGAAATAATCTGATTACTGTGAACCTGTTTTGCTCTTTTTCTGCGATAAATGATTAC [T/C] TGCTATTAACCTTTTTCATTTAAGCTTCCTAATTAAGTGGCGTAACTGTAGGTCTTTTAT
1536	CaSNP3518	AATCAATAACTGAAAGAATGTTGATGATCTTTCTGCGTTGCAAATCCAATGTATATGAT [T/C] TGAGCTGTTCCAAGTAATGCTTCTGATAATATTTACTGCACACTTCTTGTCTAAAGTGTCT
1537	CaSNP3519	AACCTACCTATATGATGATGACAAGAATTAATTTTCATATTTCTAATAGCATTCCATATC [A/G] ATCTCTTCACATAAATGTCATCCCTCATAAGTTAATATCTAATATCCAATGCACATTAAT
1538	CaSNP3520	CAATATCAATTACTGCGTCACGCATTTAATGCGTGGACTTGAATCATTGTTTTCAAGAA [A/T] TTAAGTTAAAACCTTGTCTTATCTTATGCAGGCAGTGAAGCTTGGGAGAGCTTTATTA
1539	CaSNP3521	TAGCAGTTTTGGGGTCGAGCACTCCGCACCGCTATTTGAGAGTAACAACATAGGTTAGAT [T/C] GCAAGTCTATTGACACACCTATAGATCTAAATGCCAAATTAATGGCAAATCAAAGGTCTT
1540	CaSNP3522	CGGCCTCTATCAATGTTGAATTTCAATCTAAAGACAACCTCTAATGTTGAATACTCCCT [T/C] CGTTCCTTTTTTATCTGTGCTTGGGAAAGCTTATTTACACAAACCAATAAAGCTAATAACTT
1541	CaSNP3523	AGGAGAGAATCAAATGAAACTCACAAAGACGTGCTTGGTTTTTGGATGGCAAGAGATGAA [A/C] ATAGGCACATACTAAGTATGAAGAAATCATTGATCAAGTATACACTTATGTATTCTG
1542	CaSNP3524	CGAAACAACCTAACAACCTTATACTTTTGAGGAACCTAACCACCTTGACCTTACAAGCCAA [T/G] CCTTCTCTTAAACAACCTGACAACCTTGATTGAAGAATGAATTAACCATTATTGTGTTG
1543	CaSNP3525	CAGGTCTGGATGCAGTAAGGTAAAGCAGGGATCCTATCATTCCTCTATAAGGTTTTTGGT [T/C] AACTTTTTCTGCTGAATCATCTTTTCCAAGTAGACAAGTAGAGTGCATTGGTGTAAACCAT
1544	CaSNP3527	CAATTGATAAAGAATGTTTTATAAATAAAGATCGATTCAATTGATAAAGAATTGACACTC [A/C] TACTTTCAATATATTGGTACTCTCTCACCTTTATGAGAGTCCATAATCCAACAATCTAAA
1545	CaSNP3528	AATCCATATAGGACATTGGTGAGTTTAAAGATACGATTTGGTTTCTTTTTATCTTCAAAA [T/C] CAGGAGATTGATGAACATAAACTTCATTTAAAAATCCATTTAAAAAAGATCTTTTAAACAT
1546	CaSNP3529	AAATAATTGCGCTCTCGCAAGCGCCAAATACAAGCAACGCCATGTGAATTTCAAAAACAT [A/G] TAATAGTATAAAAATAATTGGAAGAACACGTAAAATACATATTAACATTGTATCATATC
1547	CaSNP3530	GTTGCAAGTATAATTATAGATTCACGATTAATAAAAACATAAAATATTGGTTATAAGTCACA [A/G] TTATTTATCTATTTCATCAAAATCAAATTTAAAAAGTTTAGAAACGTTTATCTTTTCGAT
1548	CaSNP3531	TTAAGATTGTAAGCCAATCCTAAAATATATCTCTAGTATCTAACATACATTAAGGACA [T/G] GAGAAAGATAAATGTTAATTATGCATTGAACTGTTAATTCACATTAGACGGGCTAACAA
1549	CaSNP3532	AGATATATGCAATGACTGGACAATTGAATGCTAAGAGTGTATACAGTTTTGGTGTG [T/C] CCTTCTGGAACCTTTAGACCGGAATGAAACCTATTGATCATACACTACAACGTGGACAGCA
1550	CaSNP3533	TTTAGCCCGCAGCAAAATCAACACTCTAATAGAAAGTCAATGATCTGATAAAAAAGTCAA [T/C] ATTCTGATGGAAAGTCAATGATATGATAGAAAGTCAACACTCTAATAAAAAAGTCAATGTT
1551	CaSNP3534	GAAAAACAATATAATGAAAGGAAGAGGGAGGCAACGCCCTTTGTATGTATATTTGCAAGTTG [T/G] GCAGTAGAAGGAACATACATAAGATGGACGGTGCCATTTTGAATTTTATCACGAACCAAA
1552	CaSNP3535	CCAGTAGCCAGCACTGGAGCTAAGAGCAAGCAACCAGCAGCACACGCTAAATTTCAAAA [T/C] TCCTTTGCAAGTACAAAATGAGCAGCATAACCAGTAAAAAAGAGATGAAGACAAAATTGA
1553	CaSNP3536	AACCTAGGAGATCAAATCCAGACTCTACCGTTATTATTAAGTTTGGTATATCTGATGTTT [A/G] ACCAGTTTTTTAGAGAATATATGTATGTTTGGAGGCTTGAAGGATGCGTTGTCTAATAC
1554	CaSNP3537	GTAAAAATAAATTGTTCTTTACCTTGTTCGTTTAGCAAAGTCTAAAGGTAAGTGGAGATG [T/G] TTAGAGATACAGACACCATATAGACCCTCCTAAGCTGAATAATCTATTTGATGTTTCTT
1555	CaSNP3538	TCAACGAGCGGATGCGACCATTTGACACTAAGACACGTACATTACTTCCACCATCACAAT [C/G] ACTACAATCTTCCCAGATCTTTTTATCGTGGAAACCAACCGTTGACACCGATTTACCAAG
1556	CaSNP3539	GGAGGATGAATAGTCTGACTCTTCTTATGAGTAATAACGGGCACAATAGGAGAAATG [A/G] CAGGTGCAGAATTTGAGGCATCTGAATCCAGATCAGCAGTTGAATCAGATTTGATGTCAA

1557 CaSNP3540 GATAGTGGAAAGCCATAGTACTACCAAGAGGCTATTACAATTGTTGATAAATAAAAGTGG [T/C] TGAAGGCTATGCATGAAGAGATGAATTCCTTGCATGAGAATCACACATTTGATTTAGTAA
1558 CaSNP3541 CAGTTTCACCCCTAAAAAGTTGAGTATGTCATCATACTCTCTTTTATCAAATGAAGAAGT [T/C] AAGATTTTCACCCCATCATGTAAAGATAGGTCAAGCAAGTATACTCCTTCCTCGTGGGCC
1559 CaSNP3542 GAGTCATCCAAGGATATAAAATTATCTCAAAGTGTTTACTACTCAAAGTGTTTGGGCTACT [A/G] TTTACTACTCAAACACATCATGAAAGCTTGCCTACCATAGGCTTGACAAGCCTCTATAA
1560 CaSNP3543 AGATTAAGCTTTAGTGATAAAAAACGAGAAAAGAGACAGACAAATTGAAAGAGGAAGACATG [A/G] CACATGAGTGGGATGTATTGTTAAAGCGATTTGAGAAGCTTGATGTTGTTGGTGAATTA
1561 CaSNP3544 TTCGTTTCTGCAGCACTGAAACGGAGAATGTTCTACGTTTCTACAATGTTCTTCATTTCT [A/G] CAGCATGAAATGGAGAGTGTCTGCGTTTCTGCAATGTTCTTCGTTTCTGCAGTACTGA
1562 CaSNP3545 TTCACTCATATTGAATCTATTTAGAACCTTTCCTGACGTAGCTCTCTTGGGAAATTATAA [T/G] TTTTCCTTGTCTCTAATTCCTATGATTTCCATTCCTAGGATCTTCTTGGTTGGCCCCAA
1563 CaSNP3546 GAGTCAAGAACATTATACACCAAATGCAAAGATATTTTCCCTTGAGGAGGTAGAGGAATGA [C/G] TTTAGACCTTGTAGTTAGAGGATGCAATTCCTAATTTTTTTAGGTTCTGATAAGTCCAT
1564 CaSNP3547 CAAATCCACATGTCCGTTGATATATTATGACAACCTTTCATATTTCCACTAATAGGTTT [A/G] TTAAGACAAAATTCCAAATTAATGTTTTGATGATAATTAATAAAAAATAAATTAAGACTT
1565 CaSNP3548 ATGTCAAAATAAATCAAAAACATAGAATGTAGTAACAATGCAAGTAACCTTTGTTGTCTC [A/C] CAAGGATCTCAAATATAACAATAATCAACATTAAGAACGTGCAACAAAATAAATAAAAAA
1566 CaSNP3549 CGACATGGATCCATTGTATGCAACAGCAGCAGAGTTTTGAAACAGTAAATTTGCTACAAT [A/G] AACCATCGATGCATTCACTACTGTGCGATGAAGACCAAATCAAATGGGAGCCATTTGAAG
1567 CaSNP3550 TACTTTGATGGAACAGATTACTACTTCCGGAAGAACAAGATGCAGTTGTTTCTGAAACCT [T/C] AAGATACATGATTGTGGCGCATCATTATAAATAGAGATTTTATAACCAATAGTTGATCAA
1568 CaSNP3551 TAATCTTGTATGCCGCAATTATAATCCGCTGTGTGTATGAATCTGAATAAATCTGCATC [A/G] TATGATTGTATGTTGATCCTAATTTGATGCTAGACGTATTCGATTTTCTATATGCTTT
1569 CaSNP3552 CTCCTTTTTCTCTATCTTGAGCTCTCCACATTTTGAATCTACTTGTCTGGATCATC [T/C] TTTTCTTTGCTCTCATCTTCTCTCTTTGGTTTTCCATTCACATCCACAGGTTTCGGAGAT
1570 CaSNP3553 TGTCAATGCAAGAAGATATGAATTCCTTGCATGAGAATCACACATTTGAGTTGGTAAAGTT [T/G] CCTAAGAGCAGAAAAGCAGTCCAGAACAAATGGATATAACAAGATAAAGGCAAAAGATAAT
1571 CaSNP3554 AGGAAATTAATGCAATGCTCTAAAAATATCTATTAAGATATAACTAAATCTAACAAACGC [A/G] CTCTCAACGCGATTTGTGTTGAATCAGTTAATACAAGTTTCTGATGATTTTTGCGTCT
1572 CaSNP3555 TAAATCCTAAGTCCGTATATTTCTCCTACGATATGGTACTATGTCAATCCAATCTCTACC [A/G] CCACCCATCTAACTTCGCAGCATCAAAATTAACTCATTACGACTGTCATCAGGTAATAT
1573 CaSNP3556 TAGGGCATCACTAGATACATTTTTTGGAGCCTCATAGCCATCTTTGACTATGCCACAAA [T/G] TCCAGGAACATGTGAGATGTAGAAACCTTTAAGCTTGCCTTCCATTAATCATATCATCA
1574 CaSNP3557 GTTGAATTATACCTACATCAACTCATGTGTGGATTGTTTAGGATGGGTGAGACTACATAC [C/G] ATATGCATAAATGTGTAATAACCTCACTTATTATGGTTAACAATAAAAAATGGTTCAAGTGG
1575 CaSNP3558 TATATATTATGAATTTACTATGTTTTATATTAAGATTATATTGTTATACAGACTCATT [T/C] TTAGGTGCACAAGTGAATTAATATTTGATGGTGTACAACGTTGTTTGTCAATTAATTA
1576 CaSNP3559 CTTGCAAATATGAAAGGAAAACAGCATCACAGAAAATTAGGAGTTATAAGGTTAACTTG [A/G] TGGTTGGACTGAGGAATTAAGAGGTGGAGTGATAAGGTGATACAATTAGGCCAAAGCCTA
1577 CaSNP3560 TGAGTATGCCATCGCTCTATTTAAATGTCTTCATCTACCGTAGTTCACGACATGATTCCT [C/G] TTAAGGCGATGAGTCTTCCAACATTAATGCACGCTACATGAATCTACATCGACAAAACGA
1578 CaSNP3561 TGATGAGGATTATGAAGATGATTGCGAGTCTCCCCATAACTAGAAGGGTTAATTGAACA [A/G] AAAGTAAAGATAATCCAACCTATCAAGAACTTGTGAGGTGATCAATTTATGGACTAAA
1579 CaSNP3562 AATAATGTGAATCAAGAAAAGGAGGGGCCCCACTTCAAATAAATGTAAACCCCATCTCTC [A/G] TCCAATGGAATAGTTCTCCCACTATTCACAATTCACAAGAAGCAAGCAATAAGGATTT
1580 CaSNP3563 TCTAGAATTCATTCTTCAGGAAGATCAATATCTTTCCAAAGGATGGTTTTTGAATAACA [A/G] TGTTTCTTTGTTAGATCAGTGTGTAATAAATAGTGTTCGCCCTTTTTGTTTTCAATATT
1581 CaSNP3564 ACCCTCAAATTTAAACAATTAAGTTGAGCACCCCTACACTTATTTAAGGAAAGACTCATT [T/G] ATCCCAAGGTTGGGTCAATTCATGTTTTTCACTTTTAGGCTTGTAAATGAGCTATATAA
1582 CaSNP3565 AAAACTCAACATCTATAGTAATAGAAGAAGAAGCAATCTCTGATCCTCTTAATGTGCCAT [A/G] ATCATCACTAGAGCATTGTTATCCCTTCTTACATGCTCAGATTATTGTAACCTTCAAG
1583 CaSNP3566 TTTTAGGTACACAAATTTGGTTAGGCTTGGTATGTTAGGACAATAAATTTGGAGTGA [T/C] CTTTATAAGAGCAAGCATTACACAAGATATCAAATGGAATAGGTTAGGTTCAATTACAA
1584 CaSNP3567 CACCCAAACCACCGTTGCTGCTGCCACCGCCGCTACCCATAAGGGCACCTTCCATGGGGT [A/G] TAAAAACAATAACCTTTATCTCAATGGTTAGAACGTTGTGGCTGTTAACCAAGGTT
1585 CaSNP3568 TCTCCTCAACGAAGTAGCATAGAGAGACCTACGACGTGGCCTTTCGTTGTCACAACAACC [T/C] AGTCACAATGAATAGAGGATAAGTGACATGATAGACGAAATTTGGGCTCTGTTCAAAAAGA
1586 CaSNP3569 AATCTCATAATTGCTTAACCTTGATTTGGCATTGATTGTGTTGATGATCTAGACTTCGA [A/C] AAATGATGATATCTTATCAGGTAAGGTTAATGTGTTGAACATTAGGTGGATCGGATTAT

1587 CaSNP3570 TACCAGGAATATCATCCAAGTCCATCCGATTGCCTTCTTGTGATTCTTAAATCTGCAA [T/C] AGTTTATCTTCTTGTTCATCTTCAAGTTTAGTTGAAATAATCACAAGTAACTTGCCACTT
1588 CaSNP3571 AGGAAGAGACATCATGTTTTACTGAGGCAACAAAATTAGGGACAAGTTTCCCCCAATGAGT [A/G] CCATGAGAAGTAAGACCAAAAGCAGTTTCATTCGTTGCACAAAGCATTTCCTTCACGGTAAA
1589 CaSNP3573 GTATGTGGCGCATCATTACAAGAGTCAACCAAACCTGATTCACATCTGCTGAAAAGGATC [A/G] ATTATTTTTATCATGTGCTTAAAGCAGGAAGAAAGTGAAGAGTFCGACGAATGCGACTC
1590 CaSNP3574 ACTGAAAATATTTAAGATCACAGAGTTGTCACAACTGATGTGTTTTAAAGTAGGGACTGA [C/G] AAGAAGTCAATGTTGATCAATCAAATTTGTTAAAAGATTATTAATTTGGAGCTTAAAG
1591 CaSNP3575 GCATCTCTTCTCTTCCCTCTACTTATTCCTTTTTCCCTTTTCACACTATTTCCCATCA [T/G] ATGCCAAACAATGTAAACTCAACTTTTTCTTTCCATATTTATTTCCCTCTGTTTTCCCT
1592 CaSNP3576 TTCAATGACAACCCTTAAATTTAATTGAATGGTTAGAATTAGCTCTTCTAACTCTCACAC [A/G] TAACAACTTCATTCAGATATGTCTCTTAATATATATATATAATCGTTATTTAGTTGGTT
1593 CaSNP3577 ACAATCTCATATTATTGTAATACTCGAATATAAGAAATTAATATAGTTTGGGTAGATT [A/G] TAAGAAATCCTATCAAGTTGATAGGTGAACTGATTAAATCTCTTTATGGGTGGAATGA
1594 CaSNP3578 ATCTACATCTAGTTATCCACCATTGGTAGTAGAGCAAACAATGAAGGAAAGGGAATTAT [T/C] TGTAATGATTTTAAACATGTCGCGCGCGGAATGTTTAAATGATGGACTAATCTTAAGAGAG
1595 CaSNP3579 TGAGAGTGAAGTTCTACAACCTCTTAGTATCGAGTCGTTCAATCGATGTCCTATCGAAGG [A/G] AATTCGCCCAAGAACTTTATTATATTAGACAAACATAATAGTTGAAATGCCTCATATTA
1596 CaSNP3580 ATGCTTAATTGTTATCAGACAAATCCAATTAAGCAAAAAGATTAAAGAAGAATATGAATC [A/G] AAGAGAGTCAAGGAAATGAATATTACTAGAAAAGCAAAGCGATTAATGACAGGTTAA
1597 CaSNP3581 AACTAATCATCTCCCTATTTAAATCCTAAATACTCTAAATTCCTTTATATAATGCTAA [T/C] ATGGTTCACCACATATATCATTTCCTTATCGTGTGAAGATTGCACAAAATAGCTAACTAT
1598 CaSNP3584 AAAACAAGAGGACAAAACATGAACCTGTAAGTCCTCAACTTTCCGCACAGAATTTGACA [T/C] GCAATTAGAAGAGACTAAATATGGCTTTGAATTTTAAACCAGGAATTAGCTTCTGATAA
1599 CaSNP3585 TCTTTCTTCTACGTTCTTCATTAATTTGTTCTTTTTTTTTTTAAGTATGTAGACAAGATA [A/G] TTAATATCAGCATAAACTCACACAAACAACTCCAAGATAGGAATTTGACTTATCTCTAT
1600 CaSNP3586 GCGTTTTTTCACCTTCATCACCCGCGCAAGGCATCCAGAACTCTTCATCTTAGTTTTCAA [T/C] TCATCTACCTGAAATAATCAGTTCATTTGGCTTTCATCTGTAAGACTGTACATCATTTTACA
1601 CaSNP3587 CGACGCGTTTAAATGTTCTTTTATTCTTTCAAAAATTCATGTCAATCTACTAATCGAATAGT [T/G] TTCATGTGGTATGGTTTATCTCGGTGCGCTTAATCTCAAAGCTTACTAATAGGTCAGGT
1602 CaSNP3588 TACTCTCTTTACCCAGTGGTTAATCATGATGTCCTAAACATTTATGGTAGATTTATTTTT [T/C] TCTGTATAATGCCTGTTCTTTTCGACTGTAATGTATTGTTCTTTCTCACTTGCTATATF
1603 CaSNP3589 ACGTGTACATGTTGAAATTGATATGATTTTGGTTGATTTTATAATGTCCTTTATTTATTG [A/G] CAAGTGGCTTGAACCAAATACAAAAATGAAAATAAATGAATGGAGCTTTATGTGTGATAA
1604 CaSNP3590 CCTACTTGAAAAAGTTGTACTAAATATAGAATGCATGAGGCAAGACATGTTACTACTC [A/C] TTTGGAACAAAATTTCAAATTTGTCATGCAAGACTCACCTAAGATTGTAGATGATATTT
1605 CaSNP3591 ACCATTATTTCAAGTTCGTTGTAGAAAATACTATATAAAAAAGAGATATTCAAAAAGTGTA [T/C] GAAGTTGAGGGAACCACAATTTGAAGTTGTTAGAAAAGTCTTCCAGAAAAATGACCATTA
1606 CaSNP3592 GGAAGTCGATTCCCAATTTCTGTTTCTTCTTCTTCTTCTTCATGAGCACATGATATCCCAAG [T/G] CTGTCACTTCCATTATTATTAGGCTTTAACTGTTTCAAGTGTACAGAGGGGACCCTTGT
1607 CaSNP3593 TACGACGTTTCCATCTTCCACCAACTTTTCATCTTCTTCCTTTCTAATAAGAACTGTTCATC [A/T] TATTCCAATTCCTCCCTGCATTTACTCACCCTTATGGAGTATGGATAATGTCAACAC
1608 CaSNP3594 GAGGACGCCATCAGTATTGTAAGATCTAACAATCGCTATAAATGTCATGCGCACCTA [T/C] GGTCTATATAGAGGCTTAACTTTAACTTTGCTCCTACCCAATCTTCTTACTGACTTGAG
1609 CaSNP3595 GTTCTTTTCGGCAAAGCTTATTCAGTGCAAGACAGGTTAAGAAAGATCATGAAATGATTT [T/C] AATCAGTGAAGACCAATGGTGACAGCTATAAGTCAAGCCAAAATCTTGAGGTACTAGG
1610 CaSNP3596 ATGAACCTTTCATGTGGAATTACTTTGAGAACATGTGACTCACCATAAAGGTAGTATTGG [T/G] TTGGCATGGACCTGAAAAGTATTGGTTTTGAGACGGTAGATCCTATTTTTTGGTACCAC
1611 CaSNP3597 GAATGATCAATGTGTTTTGAAAAAGTTGTGCAAAATATGCATGCTTATGACTCAAGTAAT [T/G] GCGCAAGCATCTTAATTTGTTATGATGTGTTTTGGTTATGCATCTATTTTATTTGTTGT
1612 CaSNP3598 TCTATGCACCAGTAACCAATCATGAGACGATCATTTACATTTTGTCAATCTACTAATCG [A/G] TAACTAACTGAAGACGATCATTTACCTTCTCATCAAGCTACGAATCGACAACCAATCTA
1613 CaSNP3599 ATAGTCATAAAATGGATGATTTTACTAGACAACTATACTTTCAAGTTTACGAGAGAA [T/C] AAATTCATGAGAATTAATGATTATTTTAGTGTGAATCTTCTCAACAAGTTGTACAACACTA
1614 CaSNP3600 ATTCATCTTGTGATCAAACATCAGGACAGTGGTAAACACACCAGTCAAATAAATCATAA [T/C] AGGTTCAACTCCGTCATTCATAGCATAAAGTTAGGTTTTCACATCATCATACATTTCTTC
1615 CaSNP3601 GGTGTACATAGACTTTAGTCTGTTTTTCATATGTTCTTACTAGTTACTTTGTATAATGT [T/C] TCTCTTTAATGTTGTTGGAATAAGATAGATTTGAACCTATTTTTTCAATATTTGACTT
1616 CaSNP3602 AGGCCAGCACTTAGCAGAAAAAGATTTAAATGAATGGAATGAACAGTATGTTAAACAAA [T/C] AACTATGCCCTTCATCAAGATTAACATGATATTTACATGTATACTCTGCCATATTCG

1617 CaSNP3603 TTTCATTCTATAAAAAGAAACATAAAGAAAACTAAAATAATGTATTAGTGTGACT [A/G] ACATTTCTGAAAATTTAATGTAATTTGGAATCTACGAGTCTTGAAGTAAATTAGTTAAT
1618 CaSNP3604 CATGCCGACGCACAGGTGGCATATCCTTGATATTGTATTATACATGCATTGTTTAGACAT [A/C] AAATAATAAATCTCATTTTTATTTATCAGTAACACGTATTTGTTCCATAATTTTTATTTTT
1619 CaSNP3605 CAATTAATTATAGTTTCTAATTGATTAATCTTAACTTAACTACATTAGAAATTAACCT [A/G] CTTAGTCAATTTTCTGATTCAAATTAACCTCCTAATCGATTAATTATATCTCCTAATCGA
1620 CaSNP3606 AAAGGGACTCACAATATTAGGAGGTTAGATAATGACAAATTTAAACGGACTATAAACTCC [A/G] CAAAGAATTTGGAAAAATAGAATCTCTCATTTGTTTATTAATGAGAACTTTCATAAA
1621 CaSNP3607 ACAACATTTCAAGTATAGGTAAATTAATCTCTAGTTAGTTTCTTTTAGCACTTAACTCT [A/G] TGTAGAACTGAACCAAAAACTAGTTTCTTAAGTTGAATTTTTTCAACATCTTTTATAT
1622 CaSNP3609 CGCTAGCATAACAAATTTGTTATCCTAATTGACATTGTAACTATTAGCTAAAATGAACT [A/G] TAGGGTTTATCTATATCCATTACATATAGTTGACCTAAAAATCTAAAAGAATAAAGGAAT
1623 CaSNP3610 TGTCTGGTGTTCAGTGCATTTTTATCCTCTTTTGAGTCTGAATTTGGTCTAGTGTCTTC [A/G] TGAAAGTTTCATCTATGGATCTTAGCTTTCATATGCACCTGGCTTACTCCAATTGTACA
1624 CaSNP3611 CATATTTTTTCTCATCGTAATGATCATGATTAATCTTGTTAGTGGTAAGGATATTGAGAC [A/C] ACTTGATTAATTCATCTTTATACATTTTTAATCTGTTTGTGAAATGAACATACTTTGT
1625 CaSNP3612 CGGAATACAACCTTACTTGAACCTATTAGTCACATTGATTATGTTCAATCTTCTCAA [T/C] CTTCTAGCTTAGTACAATTAAGTTGTGACAACCACTGTTGAACTAGGTTACAAAAGAAAG
1626 CaSNP3613 ACTAGCCCCCTTCTGGCATCTGTATTAATAAAGAATCTTGCTAGATATCTAAGTAAC [A/G] AACAACTCTGTAACATAAATTTATACCCGATAACAGGATAGAGTTAGAAGGATGACTAGT
1627 CaSNP3614 AATATATGTATATCAGTGTCTTATGGTTTTTAAATATCACTGTGGACTGGCTTGTGTCA [T/C] GCGGAGTGTGCGTGTGGACTTTGTGCTTTATATATATATATAAGCAAACATAGAAAA
1628 CaSNP3615 AACATAAGGCAGATCAACACGGAGTGAGTTACTTATTTTTGTCAACCCTAATTTATTTTT [A/G] GATGAAATTTATGTCTTACCAAGACCATGTTGTTGGATGCCAAGGTATATGTACTCTT
1629 CaSNP3616 CTAACCAAGTACCACAAATTTAGAATGGTACCATATTGTGAAGTAGAGTCTAAGCTCATG [T/C] ATAACATTGTGTTTCTTGTGATTATTTGCTATGATTAATAGGTTTCGTGTGCGATAAT
1630 CaSNP3617 TTCACTAAACTTTAAAGCTTTAAACAAATTGGAGCGGTTTTGATTTTTTTAATAATCCAAC [T/C] AAAAGGTTTCCAAGAGGTAAAGCAAGCTTAATCGGTGGGTCAAGAAAAATTGCAAAACG
1631 CaSNP3618 GCACAATTGAGAGCTCATTTGACCTGGAAAGTATCTATGGAGGTTTGTCTGTGCTCC [A/G] TGATCTCGAATGGCGGTTTACACACAGTCTACCCGACAGCTTATTCAAAGGTAGTCAA
1632 CaSNP3619 GATGATAATTATATTCTCTTGTATATGTGGATGACATGTTGATTGTTGGTCATGAC [A/G] CTAAGAAGATTCAATCTCTAAAGAAAGATTTGAACAGGTCTTTTGAATAAAAGACTTGG
1633 CaSNP3620 CAACGTTTCAACCTGAAAAAGCTTTGCATTAACCTCGATACTGATTGATTTGATCTC [C/G] TTTCCAACATGAAGAAAAATAGAGAACTCACTCAACAAGATTCCCAAAGTTGATTAGCAAC
1634 CaSNP3621 CATTTTACGTTTCGAGTCCAGTTGTTTGGCTCAGAGCTACTTCAAACATACACCATTAT [T/C] ATTCGAACCTTCACATTACCAATTTCTTTTTTCTTGGAGCCACATGATTATGACAATTA
1635 CaSNP3622 CTATTTCTGTGGACCTACTAGAGTCTGTTTACCTTCTCTTTTACCCTAGAGCCTATTA [T/C] GTATGTCCCACCTGAGACACCTCTGGTGGCCCCCTCTGTTGTCCCCTTGGAGCTTCTCT
1636 CaSNP3623 TATATTCCTATAATAATATTGAAACACGAACATACATTTTGGTTCAAATTATTATAGCCT [A/G] TTTCTCAAAAACAGAACAATTCCTAGGTCAAATTATATGTTGATCAAGCACCAAAAAATA
1637 CaSNP3624 AATATACTCAAGATTGGATATTGAGAGTGAACCCGAGTGGCCTAATCACAACCTGATGAT [C/G] CAACCGATCTTACATAGACTCATATATCATATAAAATTTGGATTGAATTTAACTCAACC
1638 CaSNP3625 CTTGAGTTCGACACTCGGTACTACCGTTTTTATTACTTCAATGATTCAGTACACTTG [T/C] TGAAACACTATTAGTGACATACTATAATATTGATATCATCTGCTCTAATTGGCTCCATAT
1639 CaSNP3626 GAAGTAAGACCGTGAAATGCATGACCATGCTAGAGCACGCCGATATGTGATATTCAGTC [T/C] ATTAGTTTTACGCATCAACTATGAGATCGAGAAATAAAGAATTGAACATTGCAAGGATGA
1640 CaSNP3627 TGCTTATTTTCGATGGGAATTAAGTCTAAATTCGAATGAGACAAAAATAAGATTTAAAAAA [T/C] ATCTTTAGAAAAATTTATGAACAAAATACCAAACGTTTACCCTACGGATTCATAGTCAA
1641 CaSNP3628 TCATGATGTGCTTTGAGTGTAAACACTAGCCCAACACTTTGAGTGTAAACAATTTGAGA [A/G] AATTTTATATCCTGGGAGGACTCTATCACTTATGATGCATTCATTAGTTAACTTGCCCTC
1642 CaSNP3629 ATAGCTAGCATGTGAATTATTAATTAATGTAACAATGTGTGACTTATATTGGTATTACTA [T/C] TTTTTGCGATTGAATACATTCCTAGATTATTGGTAGTTGGAAGAGCTTAATGTTGTTTA
1643 CaSNP3631 ATGACTACAAAGATTGTATCCTTGCTCTAACTCGTGGAAGGCCACCAACAAAATCCATA [A/G] AAATATCCTGCCACACTTGGAAGGAATAGGCAACGGTTGAAGTAGTCCAGCCGGAGATA
1644 CaSNP3632 GAATAGACACCCCAACACATAAACCCATCTATGTGGCTTCTCGCACAACTTCAAATGTA [A/C] ACTCGATTGGAATAAGAAAGAGTTCCATTTGAAATTACGATATTGAATCTTATAGTTT
1645 CaSNP3633 TGGAAATAGAGGTGGACTACTTTGTGATCCTTTGTATCATTTGATTAATCATTAAAATGT [C/G] TAGTAAAGATGCTTATGTTTTTATTTGGTATATGTTGGCACTTTGTGCTGCGATGTGGCT
1646 CaSNP3634 AATTAACATACAAAACCTTAATTTAAAACAACATAAAAAATAAAATAACAAAGAATAAT [T/G] TACAGAAACAAAATTTGAGACATCATTTCAAATACTTAAAATTAGTAATAAGTTAAAAAAT

1647 CaSNP3635 TAATCTCGAATCGAATTCGTGCACATCGGTGCAAGGAAGGGATGCAGGATGCATCATT [T/C] GTTTATTTTCTAGTTCGGGAAAAAGCATGGCATGCCAAATAGAACTCTTCTCATCAAC
1648 CaSNP3636 ATACAAGTAAGAAGAACACGCCAAACAATCATAATAGAATCATATCATTACCTAAACATTC [C/G] TCAAGAAAATATCACATTAACAGTCAAAATCACTCAAGGTAAATCAATAAAATTTCACTA
1649 CaSNP3637 CGCAATACGTTGTGCATGTAATGGATGCTGGCGCAGTTGTGCATGGACATGTAGTCTGCT [T/C] GAATGATTATATGAATTGGTTTTGCAAAATTTCTCATCCATACATCATTATAGAGACCT
1650 CaSNP3638 ACAGTCGGGTATAGATTGCACACTTTAGCACCATCCATTTTCGGGGCTAGTTGATTCAAC [A/G] GGTGACTTTTTACATACTCCTTAGCGAATTTGACTTTTATGACCATTGTCTCCTGTCT
1651 CaSNP3639 TGCACCCGATGCATATCCCCGCAAGAATTGAGGTCTTAGAAGCCGCCAAGATAGGCAAC [A/G] CTAAGTGTGTAGACTCTTATCGTTGAACAGTGTGCAACCGATCAAAAACAAAAGAAAT
1652 CaSNP3640 ATAATAGGAAAAATTGGTGAAGTCCAGAGTAATTAAGTCTAGACAGTGAAGCATTTTTTC [T/G] TGTATCAGGACGAGCAATGTAGTAAATGTTATTAATAAAATAGCTAGCTAAAAGCATAAAGG
1653 CaSNP3641 GGATGAATTTCTGAGTTTCTGATGATAACGATGATGTTTTGAATCAACAACAAATTTGAAG [A/C] TAGGAGGAACAGTACTAGGAAATATGTTATGCTTGTGCAATCTTTGCTTCTCTCAACAA
1654 CaSNP3642 AAAAGAGTATTTGTTTTGTTACTTGATGCAACTTGATGGAAGCTGAAACTTATATTTTAT [A/T] TTTTTTAAATTTTTATTTTATAAATTTGGGTGTTACTCGTTTGTAAACATTTCAAACAA
1655 CaSNP3643 ACTGGTGCCTTTTGGAGCAACCGCACCTCATCTTGGTCTCTTCTCCTTCTCACGGCCT [T/C] ATCTCGTGGCCGCATCCTCCTCCTTGGTCTCTTCTTATCTCATGGCCTCATCTCGGGC
1656 CaSNP3644 AGATAATCTCGTGAGCAATTTTCTGGATTTTCATGTGACTAAGCTTCCACTGATCTGTCTAT [T/C] TGTCATTTGATATTTGAGGTAGCGGCTAACAAACATAATTTTTTACTCCAACCTCCTCAA
1657 CaSNP3645 TGATAAATGTTGAGCCTTTAAGTATATTTGGTTAGAGTTAAAGTTTCTAAATGTATAAA [A/G] TAATGTATTTGAATGGGCAATAAAATGGTTCTTTTACCTTAGATATTGATGAAACAA
1658 CaSNP3646 GTTTTGACCTTTTGACAATCACATATTTTGTGCCCTCGACATTTGATTATCATATTTAATG [A/C] ATTTTAAATAAAAAATTTTATAACACAAGAAATAGTAAATGAAGGTTCAAACAATGATA
1659 CaSNP3647 CAAGAGAATTCCTATACGATAATAGCTTAATTTCTAATCTTAAATCTACTAAGGAATTAGG [A/G] GTTATATTTGAATTAAGGTTCTGTCTACTAAGACATTAGGGAGGTTCTGTCTACTAAGACA
1660 CaSNP3648 TCATATAGGGAGGGTTTGACAAACCTAGTGATTCGGGAAAGTACAACCTGAATGAGCCTGA [T/C] CGTGTAGGGCTACAGATGAACGGTAAGGTAAGACTGATAGACCTTGGGGGTACCTCTAGT
1661 CaSNP3649 CATATAAAAATTAGTTATAAGTACATGCGAAACAAAAGAAGAAAGTGGACGGCGAGGAAG [A/G] TGGATGCAGATTGAAAGAGAAGGTTGATGACAACAGTTGTTAAATGAGAGTGTTTAAATTT
1662 CaSNP3650 GAAGGAATGATATGGAGTATGTCAATGTACGAAGCTTCTTATAGAGGGTGGTAAAGCTTT [T/C] GGAGGGAATTTGAAGTTACTACTATCACATAGATCAAAATTAACATCGTATGAATTTTTA
1663 CaSNP3651 AATATACTAAATAAATTTGGTTAGGTTTGGAGTAAATTTTTAGAAATTTGTGTGTCATG [A/G] ATACTCACTTTTTATAAATGAAAAAATAATACAAATATTTTGGTATTTTGGATTATTA
1664 CaSNP3652 TCACATGACTTCATTTTATTTCATACCTGTCTTAGATACCCACTTAGAAGTTGTAGAGCTA [T/C] TATATAAAGTATAAAACCATAACACATGTGTGGTCTTTTATCCCATCTTTTAAATCTATA
1665 CaSNP3653 CAAAGTCTTTCTTTGCATCTTCATCACATTTGTTCTTATTATCATCTGATTCAGAACAC [T/C] CTGTTGAAGTTCAGAAAATCTGATACTACTTGTTCAGGCATATCCTCTTCAATTGATCC
1666 CaSNP3654 TCAATAAAGAAAGAAAGTGAGCTATAAGGCACTTTGGTGGTTCGTGAGAGTTGTAACGAC [A/G] AAGTGGTCATGAGTTTATTAATAGAGAAAAAGATAAAAGGAGAAACAACAAAAATATGT
1667 CaSNP3655 TTATATACAAAAAATTAAGAAAGTATAAGATATATCCAAATTAATATATCAAAAA [A/G] TATTAAGAAGAACTAATCTTGTGAATCGGTAAGGGCGCTTGAAAAAGGTAATAAATTA
1668 CaSNP3656 GGAGGTATTCATGTAACACAAGAAGCTTTTATAGCAGCTGAAATTTTTAAAGCAAAATAAA [A/G] TAAACTGAACCTCATCTTTACTATTTGCACGTGAACATGTAATACTACTTTTCTTAAAT
1669 CaSNP3657 TATTATTTTATTATACAATCGTAATTATCATTTATAATATAATAACAATATAATCAATGAC [A/T] TGTAATCCATTTGCAAAATCAATCAATCTATTTATCTATTTATTTAGAAATTTATTTTTGA
1670 CaSNP3658 AAAGTTGATTTAATTACCACAGTATTTAAGAGACTGAGATTCAGCTTGAAGTGAAGAAA [A/G] GAAAGTAGCATAAGAGTGGATGATAAGCATAAAATGAAGTTGAGCTTTGAAGTAACTGA
1671 CaSNP3659 CATAAAATATTTAAGATAATTCGAGGGCCATAGCCCTAGAAAAGTTTTATGTTTCA [A/G] TATCACAAAGGGCCAAAGCACTAAGTATTTTATTATTAATATTTGATAGGGTTGTGGCC
1672 CaSNP3660 TGGAAATGACACCACCAAGCAACATTTGCACATTCGTCACTTTCCGAATCCGAGGATGAG [A/C] TGACTTTATGTACTCCCATGCTATATAGGGATTTTGGATTCTTTCTTCTTGTGAGCAC
1673 CaSNP3661 ATTGACCTGCAATCATTTGCTCCTGTTATACACCTTGTTCCTTCGCTCCCATTTTTTGT [T/C] TCTTCTCTCTCACTTTAATAACTTTAATAATATGGAGATATTTCTTTTTGCGAAGGTT
1674 CaSNP3662 TTAATAAAGGCAACAAGATTACAACCTTTGAGCATCAAAGGCAACAAGATTACAACCTTTGA [A/G] CATCAAAGGCAACACACAATTTGGTACCCGAATTTAAATATTGAAAATGATAATGCTCG
1675 CaSNP3663 TGTTCAAATCATCTAAAAATGAAATGTATGATTGTCAAGATAATACAACATGATTCAAT [A/G] GTAAGATTGTAATAATTCATATTTAAATAAAGTTATTAGAAATGTAACATGCTAAGCC
1676 CaSNP3664 CATACCTATGGCACTTCTTAACAAGTCACGTAACAACAGAAGACCATCATCAACAACATC [T/C] TACACTTCAACTTTGACAACATTAGTCTTTATTGCACTTTGTGCTTAGGTGTATGGATG

1677 CaSNP3665 TGAGGGTTAGGTCTTGGAACATAGACTTTTCCGACCATGTGTTTGAGCATCCATTGTCCA [A/G] GTACCATAACTGGAGTTTTAACTTTGTTGCTAAGGATATCTGCAAGATAAACTATTTTAT
1678 CaSNP3666 AGATAGTTTAAATGTCTTGAGATGGTTAAAAGAATGAGATTTATTATCTCTCATATTTTT [A/C] GAGAAGTTATCAATGTGCTCACAAGAGTGCTAATTTAGGACTTTACATTTGTTAATTCTCA
1679 CaSNP3667 CCCAACTATGTAGTATACAACAATAACAATAATTTTGCCTATTATGATTAGATTAATT [A/G] TCGAAGTGTACCTTTTGAAGATTTGCACCAACTAATACAAAAAAGGGGTTAATTGTG
1680 CaSNP3668 ATCTAGTAAACTCAGAGACGATTAACAAAACTCTAACTTTTAAAGTAGCCAGCAACAGAT [A/G] CATAAATAAATCAACAAGCAGATGGTCATTGGTCAAAATGACACCCTAACCTCCACTG
1681 CaSNP3669 TGCATTGGTTGAATGAAGCAGGAAGATCCATGCACTTGCAACCAGTAATCAGAGGTTTAC [A/G] TGCTATGCTATGCTACTGGACAACCCGACAACCATAGCTAACAGTTCACAATATCTCAGT
1682 CaSNP3670 TGTGTATATGGTTGTTGGTGGGAAGTGTCTAAAGCAGTTTGTGGAGATAGCATGCACCAA [T/C] TGTACACAAATCAAGCAGTCTTATTTGGATTATGATTTTTGGTGGAAATACATTTTTTCTG
1683 CaSNP3671 AAATCCACAAAAGCTTCATCCTCCATTGAAGGTTAAAGTGGTGTGACTCATCAA [T/C] GGCACAGTAAAGCATCAACAAAAGGGTATGATGGTGTGTAGCATCAGTTCATAAGAA
1684 CaSNP3672 ATAAATATTGAAGGTGTAAGAATATATGTGTTTAAATTTAAATATCATTATTAGATAACC [A/G] GAGGACAAGAAGTTTGGAGCAACGCATAGTAGAGTGTAACTGACATGAATTATTATTAA
1685 CaSNP3673 CTAAATATTGTTTTTAACTTATATGTTGTAAGATACTATTGTTGAACAAACATCTCAA [A/G] GATAATGTTAAGAGTAAATAGAAAGAAACCGACATGGATCGTTCTATTATAAATGTTTT
1686 CaSNP3674 TACAAACAACACAGTAATTGAAGCTATTATTTAGTTGAAATAAAGCCTAAAATAACACTA [A/C] TTAACAAACTATATGCTAAACAGAGAAATAAATACATCAATCTATTTAACTCCTTTTTTC
1687 CaSNP3675 AATCTAAATAAAAAAATATGTCATTTTCTATTTATTTTCTTAAACAAAGTGGTGTCAACCTG [A/G] CCCATATCAAACACTATTTTCAAGTAAGATTTTACTTAACTATCTTACCAAGTCTTAGGT
1688 CaSNP3676 TGTCTCCAACCAAGTTACCTGGAATGAAGTCATAACAATATAGCAGTTAATAAACACATT [A/T] CCATTCAACAAAGGTAAGTAACCACAAGGGCAGATTTGTTACAGCAGCTGGCTTGTAAT
1689 CaSNP3677 TTTCTGACCAAAATTTTCAATTATCCTATTTCAAGTTTTCAACTAGTATTAGACCACCT [A/C] TATTAGATCTAAGTATGATATGTAAAAAATTTGCAAGAAAAATGTAACAACTATCTATC
1690 CaSNP3678 TTATTTTTTCTAGTTTAAAGATATACTTCTGAATATCTAATTTGATTTGATTTGATTTATT [A/G] TTTTTAATGCATGCTTCTTTCTTTTGTAAAGGTAATGATGATTTAGCACAATACTATT
1691 CaSNP3679 TTATTTTCTCTCGTCTTTTCTCTAAGATCCACAACTTCAACATGGTATCTAGAGC [T/C] GATTTGATCCTCTTGAACGATCCCGCTCTATTCCGCTGTCAAGTTCCCAATAGTTAG
1692 CaSNP3680 TTCTTCTCAGAGTCTAATTACATCCAAATATATTATAATTTTAAAGTCAAAATGAGTTA [A/G] AAATTCAAATTTATACCGTGATAACATTTATGATTTGAACCTAACCATGCCTTTAGAAG
1693 CaSNP3681 AAACCTAGATTACATATATCTGAATTTAATGCAGATAACTTATTTGGATGTAATGAAAA [A/C] AACATAGGTGAAACTAGATACCATCTGATACTCTTTACTTATTATATACATGAAATG
1694 CaSNP3684 ATAATTGAATCTTGAAGCTCAAGAACATTGCATTCCATAAGACAAAAGGATTGATGTG [T/C] TTAGTCTTTCCCTAGTTAAAGGTTTGTATGCCAACATAGACGAGACGTATGTGTATGAAAT
1695 CaSNP3685 GTAAACTCTTAAGACGATGGTGTATATATTGAACCATATCCAACCATGATTGTTCCAA [A/G] GAAGCCTTCTAAGTTAACCAAGGTTTGAATACGAGTTTTCGCTCATATATGCGTTTTGGG
1696 CaSNP3686 CCATTCAATACATTGCTCAGTCTTATATAGGAATAGTATTTCTTTTAAATGTTGCGAAATC [A/T] AAAAGCTTCAAATTTGATGATTGAAGCTGTTGAGAGTTATGGCCTACACTTGAAGCCTCCA
1697 CaSNP3687 TCATAACATCCGTAACCACTTCATGTACCATCATTACGTATCATGAATCAAATATAAT [T/C] AATCATCTCTAACAAAGCATAAACCCCTGAAAAACAGGAGATAAACATTTGAAATAAAGA
1698 CaSNP3688 CAAGAATTATGTATCAATAAAATTTGAAAATTTTAGTATACATTGAAAATATTTGAAAAT [T/C] GAATGTGATTTTTGCACGAAAGGGGAAAGTGATAAATGTATAAGTGAAGTATATGAAAT
1699 CaSNP3690 ACACGCAAAAATATCATAATCGAACCGTATCATTACACAAACTGCTCAAGAAAAATAT [A/C] ACGTTAAAAGTCAAAGTCACTCAAGGAACATCAACATTTTTACTATAACATCAAAGAGA
1700 CaSNP3691 TAATATTCATTAAAGGAATGAGGGAAGGGGAAGTGGGAAAGACATTCATTTCAAGAAG [A/G] ATGAATGAAAGGAATAAAAGCTAATTAATAATGTCATTCATTTTATGTTATAAGAATGAG
1701 CaSNP3692 TATTTTACACATTGACATTTGTTGAGAGTTTTGTATGCCTTATAAAAAACAGAGCTAAGCC [A/G] TCGAAGACTGACCATGAAGCGGCGCTGATTAACCCAGATCGGTGAGTACGGCAGCTGAAT
1702 CaSNP3693 CTTAAACCTTTCGTTTAGTAACCTAGCCCAGTAGTGGTTGCATTTCTCAACAACCTGACT [A/G] TACTAAGCTAGTGGAAAGTGTGATGAAATGGTGAATTAGTGGATTAATCCTTCAATTTT
1703 CaSNP3694 TTGGGAGTGGATCTCCGCCGATCGGTTGATGTTGAAAATTTATCAGCATTTGGCCAACA [A/G] GGTTAGTCTTGAAGCGACAGATCAAGGAGGCAGAGAAGGAAGGAAAGAAATGCG
1704 CaSNP3695 TTGAAACATGAATGATGGCAGAATAATTAATGTGTTTGCATATGATGATCAGAATATTAG [T/C] AAATAGACAATCGACTCAAAGATCAAGAGTTAGGAAGTTGTAATACATGATATAATTGTA
1705 CaSNP3696 CTTGCTGGAGCAATAAGGTTAAATCTGTGAGTCTTCAACCACAGGTTAGTTTCTTCTCT [A/G] CAATGAACTGATTTTTTCTCTCTGATTTTGGATCTGTTGAGGGGTTGTAATGATTAT
1706 CaSNP3697 TCTCTGAATATCCATCCTCAATTTCTAGAGAAAAGTCTGTTTGTCAAGAAGTCAGTTCG [A/G] TAAATGATAGGCCTGATGTAGTAAGCCAGATAAACTTGCTTCTACATCCACCGATGACG

1707 CaSNP3698 ACTCCTGCTTGACAGTTGATCATCTCAAAGATCTTTTCCACTTCTTGATCCACTTATCT [A/G] CTTTCTTTGAATTTCATCACCCCTAAACTTGGGAGGATTGTAACAACGAAAATCTTCCA
1708 CaSNP3699 TATGAGATGAACAAGATAACTTGTCTCCAAGCATTTTTATATGCCAAAATGTCCACAA [A/G] GGCCTAATTAAGAAGGAAGACTTTTACTTATTATAATTGTCTATTTATGTTTTGTATGA
1709 CaSNP3700 GGTCAAAACTGATATAGCATTATCAACAACCTTTTGGACCATTATTAATGCTCTAAAAC [A/G] CCTATAAAAGGAAGGCCAGTGCTCAAGGAAATAACAGAGGTTCAAGTGCTAACTAGTCTC
1710 CaSNP3701 TTAGCTATGATTTTCTTTTCGTTTCCTAATTGAACTAGTATTAATCGAACAAATGTGCAT [A/G] TGTTCACTTATCTTGATAACTATATAAGGAATATGATATTAATAATTTAAATAATTTTGG
1711 CaSNP3702 AGTTGGATCCTAATGGAGTAACCTTAATCACAAAGTATCATTGTAAGTAAAATTCATAAA [A/G] AATGGTGTAGGACATTCCTGGTAATTTTCATTTCTTCTACAAAAGTTTTGTTAAGATTTTG
1712 CaSNP3703 TTTCCCAATGAGTTTCCAAAAGTTTGGGAATGTATTTGCTTGATAAATTGGCTATTGATC [A/G] TGGTTGATCTAATAGTATGTTGTTGTGTTTCTGTTGCTAAAAAAAAGAGTTAGTATTG
1713 CaSNP3704 AAACAAGCCTTCTACGCTATCTCTTATCAATTTTTATTTACTCTATACATTTTCGTAGTTTA [A/G] TAGCTCAAACACTCACACTACTCAATTAACACTCTTTGGAGTACTTAAGGAATCCATGCG
1714 CaSNP3705 TCAAATGTTGAATCCATAAGGCTTCTCATGTCTCGTCATTCAAGAAGAATAACAGGAGAA [T/G] GGATAATTGGAAAGAGAGTAATGACTATATCAAGGACAAAATGGGAGCATACACATTTAT
1715 CaSNP3706 AAATTATATATTTTAATTATATACCCTTAGTCATGGACTGCTCCCCCAGGTTAAGGTG [T/C] TAGTGAATATGGCTCAGACAGGAATCGACATCTCATGGATAGATGTTGCTGAGTTGTGG
1716 CaSNP3707 AGTTGACCAAACAACCCATCAATGCGTGGCAAATGGTATTTATTCTTTACATTTACTTTA [T/C] TCAATTGCCATAGTCTACATACACCACATGGATCCATCTTCTCTTTACAAAATAATAT
1717 CaSNP3708 CTGTTAATACAAGCTCACTCTAATTTATCTACATCCGATAACCTTTGTATAAAAATTGAT [T/C] GTTTGATAAAGTCAACACTCTGATAAAATCAACATTCGAACATCATTTGCTCATCATAGT
1718 CaSNP3709 CTCAGTCCATCATCTTCAGCATAGAACCATTACTCTACAGTTTGTCTCTTCTCTTTACA [A/G] ATTGCTGATTTATTACAAAAGATGCATTCCATTAACGTTTCCGTTTTTTAGTTGAAAAA
1719 CaSNP3710 TAATATTAGAATATTGTATCCTTTTACATTTTTTGATCCTTCATTGCAGGCTTGACTGGA [T/C] TGTTATGTCCTTGTGTATTATTTGGGCGCAATGTAGAGAGCTTGAGGGAAAACACTCCTT
1720 CaSNP3711 TAATAATGATGTCAATTGAGTGAGCGTAACAATCGAGTTTGGAAATGGCGCTATAAATGA [T/C] AGTGGTTTTGTGGGAAGAGTTTACGTGATGGACCTATGTGTTGGGAAATCCCACCCAACA
1721 CaSNP3712 CTACATTGAATGTTTATTAATGGAAGTAAAAACTGCACCGTTTTATTATTA AAAAGTAA [A/G] TTTTTAAGGCATAAATTTGTCTCATTAGTTAATATTTAAATATTTGGGTCACTGAAGTTTG
1722 CaSNP3713 GGAAGAAGATGGAGAAATGAAGAGAAAAATATGTAGTAGCATTCAAGAAGGAGAGAAAG [A/G] TTTATGAAGAATAGAAAGATAACTATCAAATGACTAAAATGCCCTTAAGTATGTATAC
1723 CaSNP3714 TGGGATTTTTTCTTAAAACGAGTCTGGTGAATAAGAGGGGACATTGCATTAGTACATTA [A/G] GGCAACTATATGCTCTGATTGTAGGAACAATGGTGATAAAACCCATAATAACATTTGTTA
1724 CaSNP3715 ACAAATAACATCCAAAATTAATAATATATCTATCATCAATTAATCATAATAAGTCATC [A/T] CATTAGCACCCTCCTTGCATCTCATTAGCCAACGACAAAATCCCTTCAAAGTAAATAG
1725 CaSNP3716 CTGAAGAAGCAATATGTTGAGACTATTTCCATTTTCATTGAAAGATGATGCTAAGGAGT [A/G] GCATAATTCATTTCTGCTGGCAGCATACCACAAGGGATGACCTTGAAGATAAGTTCTT
1726 CaSNP3717 CTTGAAGAATGAAAAGAGAAAATGGCAACTCATGACCAAGTACCTATGAGTTTGAAC [A/C] TGCACGAAGATGGACTGCATCAGTCCAAGGACAGTTGGATGGTAATTTGTAATATCATG
1727 CaSNP3718 ACACGATACTTATTAACAAATGCAACAAAGATAAACATATATTAGAGAACAAGATAGAG [T/C] AGAAGCACTTGTCAATGTGTCTTGGTTCACTATCAATCTGATAACGATAACACCTTTAAA
1728 CaSNP3719 TGCCTTGTGACACAATTGTGAATCCGCGAAATAATGTCAATGTGCTGACAACGAGGAGT [A/G] CAAGGTAAGTAAACCAGTACCACCTAAAGCCAAAAGAGTGGGAGTACTTCAAGCTTCAAC
1729 CaSNP3720 ACTTATGGACATAAATGTTAACATTCCTCTCTGATTGATGGAGGGCGATTGGAGTACTC [A/G] AAAGCATACTCATAAGTTTTTTATTTATCTCTCAGATCTTGTACTATGGACATAGTGGAA
1730 CaSNP3721 AATTATGGCCCTTGATCATGTTTATTCTAGTTTAAATAGTCAACTTTAAATTTGTTACTAT [A/G] TTAATAAGCTTATTAATTTGAAACTCAAATTTGAATGTTTTTTAATCAATTATATTAC
1731 CaSNP3722 TAAAAATTATAATGCTTCAATGATATGAGTAGAAGAAAGACAACATTTGAGAATTAGAAT [A/G] TATCCTTTTGATACATACAGTAACTAGCTGTCTCATTCCACTCTCAAAGGTCATAAATGT
1732 CaSNP3723 ACGTAGATTTATCCTGGTTCACCCTTACTTTGGCTACATCCAGTCCCTTCATTGAGAAAG [A/G] ATTTAATCCACTAATTCAAATACCTTGATTACAAAGCACCTAACCTCCAAGCCAAGTAT
1733 CaSNP3724 ACTCTTTGCCTCTCAACAGACCCCAACAGTCTCCATGGTATCAATTTCTATGAACACAC [T/G] TAGTCTTTTATTCAAGCTTTTCTAGATTATGCTGACAAAAGTATGTTTCCGCATCAAAGT
1734 CaSNP3725 TATTGAATGATATCACAAGTAAAATATATCACAATGCCATACCGATCATGCCATCAAG [T/G] ACACAATTGGGAACAATGTCAATAAATAAAAAAGTTGCAATATTTTTAATTTGTGTATGC
1735 CaSNP3726 TAAGTCCGTATGTCTATCCATTGTCTGTGCCATGCAGCTGCAGCCGAACTACTCCATC [A/G] CAGATTCATAGTCTCAAATGATCCATTTGAACCATGTTTTCAACTAGAGTTGCTGAATC
1736 CaSNP3727 TACTTCAAGACAGCTGTCAAAGATTTTAACTCAGCACTTCTCAAGACAGCTTTAGCAA [A/G] AGCATTCCTGCTTTAAGAGAACACTTATCCACTTAACTGACATAAGACAGTTGGACCTT

1737 CaSNP3728 GTATTGTTTTTTAAATAAAAAACGTGTA AAAACTAATTCTTCTAACACATAATTCAAA [T/C] TACTTAAATTGTGACTGAAATGTTTATCATTCTTTGTCCATGTTTGGGCGCAATATTTTC
1738 CaSNP3729 ATTCGTACCATTTTACCCTTAACCTTATACATCAAATTATTGTGCCAACCTAATTACAT [A/G] TTTAATATTTTTTCTGTATTTTATATATATAGCTGAAACAATTGGTACTAATTTTT
1739 CaSNP3730 ACCTCTCTCCAAGGTAGCATCAAGTATAGACGCTGTTTTACTTTTCACATCCTGATACTCT [T/C] CACTTAGGTGCATTACCCTATGCAATGAAGCAGCTGGGACTATCTGCTCTGTTTTTTCA
1740 CaSNP3731 TTCTGCCAAACATTGGGTAGGATATCGACTTTAGAGTATATTTCTTAGCTTTGGGAACAT [C/G] TGTGCTTTACTTTCTTATACTGCTGCCAAGAATATGAATGTTTCCAACATTGAAATCCTT
1741 CaSNP3732 GAGATTCTAGATCAAGTAGGGAAACAGGGATGCCATGGAATATGCATAAGATGAAATAAA [T/C] TATGGTGCAATTAATGACACATTGAGGAAAAAGGATCTGGAAGACACCCGATGACTATTA
1742 CaSNP3733 ACGAAGGGAAAAACATTATTCTCATGTCTTAATATTCTTTTAAATTACGTCTCTTAAAGAA [A/G] AAGAAAGATTGGATTAACCTGCCTCAATTTGGCCATCATTTTGTGGGTGGCAAGTAGTAG
1743 CaSNP3734 TTAATAGAGGGCCCTAAATAGGGGTGTTGTAGGTAGACCATAAGACTTCATGTAGATA [A/T] TTAATCCATTCCATATCATGAGATTATAAGCTTGGCCACTAAATGTTAATATTTGAAAT
1744 CaSNP3735 CTCCGCCCTTCCAGCAACAATAGCAACCAATGTTTCAGCAACAATAATATTTAATAATTA [T/G] CAATATGTTATGTCACTTCAACAACACTTCTCAACCTCAAGCAGATCAAACCTCCATACCA
1745 CaSNP3736 AATGTTTTTATAAAGTAAATAGACTCTAAGTTGTTCTTCTATTTTATACTTTGGAGATCT [T/C] TTATTATGTGAAGGAATATGGCCTAACCAATGTATCATAACCTAGTTAAATGAGAGCA
1746 CaSNP3738 AATCAAACGACTATTAATGATGGTTCACCATGAACCATTTAAATGTTGGTCCACTCTACC [A/G] AAAATAAAAAATAAATATGTAGAAATTTGCGACCACCGGTTATTAATCTGGGTTCACTAA
1747 CaSNP3739 CACATCAACCACAAGAGGTACTACATCAAGCGGTGGCATCAGACCTTCAACATATGGG [A/G] ACTTGACATTATTGGACATTTTGCCTTGTATCAAGTCAACAATGAGCTGCAAGCTATAG
1748 CaSNP3740 CTCATGCGAAAAACATCTAATATTGATGCTCATTCTTTGACTAAGTTACATTTAACTTC [A/G] TATGATTCTTCCATAATGACTGATTTGATCGTCTAAGGAATGAACCCCTACATTGGGAAG
1749 CaSNP3741 AGAAAAATCAAAGACTGATGAAGAAGCATATATGGCTCATGGAGATTATTACAGTACA [A/G] TGTTAATGATGACTACTACTAGTGATGAGAAGATTAAGAATGAAGAGTGGTTTCTTGACT
1750 CaSNP3742 TGTAAGTTCCTATCTATTCAAGTTAACGAGCTCTCCTATATATGTAACCTTGTA AATTAGC [T/C] TCAATAAATTTGCAAAAAGTGTATGTGGTTGTTGGGTACAAGTTTCAATGTGTAGAAC
1751 CaSNP3743 TTTCAAGAACCGTATCTGATAGTGGACTTCTCGTTGGATTGTGTAACCTTCACTTTGTGTA [C/G] TCATAATATTTGTTCACTAGCTTATTCAATTTTGGTTTAGTCAAAACCAACAGAGACTC
1752 CaSNP3744 AGATGTTTCGATTTTAGAAAACATATTTTGTTC AACCTTAAATTTGTTAATTTGACAT [A/T] AATTTTGATGCTAATTTTGGTAGGCCATGGACATAATATAATAGACATGTTTATATTA
1753 CaSNP3746 GCCAATTAGACCTAATTGCTAGAAAGTTGAACACATATTTATAACATTGATTGGGTAGCCC [T/C] CTCGTAGATGGGCTTGTGGTGGATATCAACTTGCATAAAAATCGTTTTGCATCTTCGTT
1754 CaSNP3747 TAGGAAAACGTATTAGAGAGGGTTTAGGAAAAACACATTAATTGAATAATTCACCTATC [A/T] TAGTTAACCCCATTTCTTAAATCTTACACATCATAATCATCACACAATCATATGAAAA
1755 CaSNP3748 CAACCACGATGCATATCTTATAGTATTTGTATAGTCCCTTCAGACTAGCCATTTGTTGA [T/G] GATGAAAAGTCGTGCTAAGTTCTTAATGAAGTTTGGAACGACTTCCAAAATTGAGCAGTA
1756 CaSNP3749 CAAGATCAACCAAGTTAATGGTATCAAACCTGGGGGAGGGGGGATAGGTTTTATAGAAG [T/G] GGTATAAATATTTAAAATTCGTAAGTTAATTTGAAGAATGATAGTTTATGGATAGTAA
1757 CaSNP3750 AACATAGTTAAGCGAGAGAGAAAAATGGTTCTTGTGAGAAAAGCTGAGTTACGCGAGCCA [A/G] GATCATGCGAGAGAGAAGATGCAGTTTCACGCTAGAGAGAAGAGAACAATTTTCGTGCAAG
1758 CaSNP3751 CATTCCACTCCCCTCTCATATTACTAGCATCACCATACCTTATCGATTGATATTA AAAA [A/C] ATCAAGACCTTGCCGAGAAAAGAACATCACAAATGGATTTTTTAAGAGTGATAGCCATAGT
1759 CaSNP3752 AATAATAATTATATATATAAACTAGTTTTTTCTTTAGTGCCTTGAAGTCTTGTTACCTAC [A/C] GATCAAAATTACTTCCAAATTTAAATTTGATATAAAAATAAATAATATATAAAATGACAT
1760 CaSNP3753 GATGAGTGGATATTAACAAAATTGATTTTATTTATCTATCTTGCTAACCTACCTTATTGA [T/C] AAAATGTACATCTTAAACATTGGTCTGTTTCTGGTTACCAAATGAAATTCATTAATAGT
1761 CaSNP3754 GGGTAAGTTTAGTAGTGTTTTTTGCTTATGAATGATTTGATTTGATAATAAAAGATAAAAG [T/C] TTTGACATATGATCTGACTTTGATGGAATTTTCAGGTATGAAGAGAATAATTTAAAGGTT
1762 CaSNP3755 AATCAAACCTTTAGGTGAGGTTTTCATGTTAACCAACAAGATGTACATCTAGAAGGCTAG [T/C] ACTACACAACCTCCTGCTAATCTTAAGCTTTGCTCACACCAAGTATATAGAGTTTCACT
1763 CaSNP3756 TCACTTGCTCAAAATATATCTCACTTGTTTTCCATCGATAATATCTTTAATGATTAAGTT [T/C] TCCCATTTAGAGAGTCTTTACCTTCTGACATTTCTAAAATTGATTTGTGGTTGGTGAG
1764 CaSNP3757 CACAGGCTGCATTAATCCAACAATCCAAGTCCCTCACTCTCAAGCTCCTTTTCATCACA [A/G] GTGCTTACTTCCATCCCTGACTTAGAGTCCAACATATGTATGCTTTTTCTACCCCTAGT
1765 CaSNP3758 TGAAAGATTATCATTATTGAAGAGGTGAATTTTGATCAATATCTTATTTAGGTTACCA [A/T] AATAAGAGAGGTGCTGGCTGGAATGTGACCAGAGTTCCCTATTGGAAGGTGTAGTACT
1766 CaSNP3759 TCCAAAATATATATTTGGCATTAAACACAAAATACTAATAACAAATTGGCTAAAAAGCCT [A/C] AAAAATCAACATAAAAAGCACACCAAAAATACAATAATTACCAATTTAAACTAAGGGTCTT

1767 CaSNP3760 TCATTCTCCAAACGAATTTAAATAGAATCGAGTCTCCAGATCAATGACTTAAACGTCAACA [A/C] ATTTATGACAAGCATAAAGGGTCATTAACACGAAATAAATCTTATCAAGAACGAATAAA
1768 CaSNP3761 TGCTTCATTATACCTTCAGATTTTCAGTTTCGCAAAGGGAAAAAATAGTGAAAGCTAAAC [A/G] TATAAAAAACAATAAATGCATGTCAAAATCAGCAAGTTTAAACCAAGACGCACACCTATTG
1769 CaSNP3762 AATTAGCCATGGTCTTCCCCTCCCTTCCAATTTATCTAGATCCAACCAACTGGTCACAAC [A/G] GGTAAATTAATTAACATCATGATATCTTTATTCTTAAAAATTTGTTTTATTTTCTACTT
1770 CaSNP3763 ATAGAGAAAATGAACACTAGAAAAAACTAGTTCTCAAACAAGTAATCAAACTATGT [A/G] GCATCGACACTTCAAATGAAATGCATATTGAGTGTTTAAACATAGTTCCGGTGTGATAC
1771 CaSNP3764 ATTGAATAAAAAATTAATAGATATTTATTTAAATACAAATATAGATGATGCATATGTT [A/G] GTATGATAAATGAATGGATTCACATAAATTTATAATAGTTAATAATACTTAAACCGCC
1772 CaSNP3765 GGGTGCTTATTAACCTGTCAAAGATTTGAAGTTGGAGCATCAACATAAATATGTGAGTA [T/C] TTATTTTTCACTAAATCCACTATGTGTATAAATTAACAAGGATTGATCTTGACTTGACTT
1773 CaSNP3766 ATGATCTGATATGGCTTTGAATATTTAGCATCACTTCTGATAATAAGAACCAAGATATTA [A/G] TTACTTACTTTGTAAGGATTACCTTCTAAATTTCACTGCTGTCTTGATCAAACATATATC
1774 CaSNP3767 TTATATGTATCAATTAAGATCGAATTTTAACTAAATGGTATAAACTAAATGATTAATA [A/G] ACTCTAACATTTGTCAATTTATCACCTGTGTACACCATACAAATGTTTTTTTTATCAGT
1775 CaSNP3769 CATGTATATCATGTAAAAAGCAAGACGACAGCAGATAGGAAAGCTCCAGAAATCTATT [T/G] ATAATTGAAAGCGTTGAAGAAAGCTGGGGCTGATAAACAGGAAGATGAGGAGATAATGGG
1776 CaSNP3770 ATTGAGCCTATAAATTACTTTTGTGTTAGTGACTTCACATGCTCATATTTTATTCTTT [T/C] AAATGGGTTTCCACGTGATAGAAGTTATGACAATTCCTATTTTGTAGGAACAAGAACA
1777 CaSNP3771 CAAAATATATACACAAATGAAAAATGTTATTTTTTCGAGAGAAAGTCTCACTAATATAT [T/C] GCCATGAGTGTCCAATGCATATGCATATGTAAGTATGTCCATGGTCTGTGTTTCTACTTC
1778 CaSNP3773 CTCTACCTGAAAACCTATCTTGAGGCTCTGATTCAAAGATCAAATGAAGAAAGCCATAAGT [T/C] TGCCCTCTGATAAGTGTACAAGCATCTAATAAGTTGTCTCAGATAAAATGTGACAAGAAT
1779 CaSNP3775 AAACAATTCATTATGAAAAAATTTTTAAATCTAATGAATCATCCTTGTCATTTACTTTG [A/G] AGTACACTATTTAGTTTTCTCCTTTTTTTTTTAATAAATAAAAGATAAAGTGTATTCCAC
1780 CaSNP3776 AGTGTATTATTCTTCGACTAGTTTGGTTGATTCTTCATCTCGAGTATATTGGAGGCATTTG [A/G] CTTTACTTAATAATGATGCGACATAGGTGGGTAAGAAGTATTAAGTGTGTAAAAGAGG
1781 CaSNP3777 ACATCCATTTCCGGTCCATATATATGACCTATATAAATGCAGTTACAAAAATAAAGC [A/T] ACTGATAACATCAACCATTATGTAACAATTTCAAAACAAAACAGATCAGCAAATTTCAA
1782 CaSNP3778 ATGTATATCTTTGAGATCATTAGTTCTTAAATATTTGGTGTAAAGGTTACTTCCATCGTC [T/C] ACAACAAATCAAACCAACCAATAAATTAAGCCATAAATAAAGTACACAAATCTCTCT
1783 CaSNP3779 TTTAATCTTTTATAAGATTGTCATTGTTGTCTAGTAGCTTCCGTATACATGAATATCTTC [T/C] GTATATACATGAATATGATGGTATATTGTCCTATGATTTGGTTGGATTGGAAATCAATC
1784 CaSNP3780 CCGATAAACAAATTTAACATGCTTTCGAAGGATAGTATTACTCTTCTCCCTTCTATATG [T/C] GTTTTTAAAGGAGAGCCGATAAACGTAATGTGTGTTTTCTGAAGCTGTGGCAGCTTCT
1785 CaSNP3781 TCCTTTCACCCCTTACCTCGATTAAAGATTTTCGTCCAATGAATCCGATCTGCTAAAGAGT [T/C] GTGTCTTCGTGATCCTTGTCTCTAATAGTCCGACAGAAATGATTCATGATATAACCA
1786 CaSNP3782 TTTGGTCAACTATGTTTATTTCTTTTTTATTGGGTTAAATATCGTATTAGTAAGACAAA [A/T] TTTATCCTGTATCTTCCATATTATATTCCTATTTTCACAAATGTTGTCAAATGATACTTT
1787 CaSNP3783 AGATGTACACGTAGTTAGACATATCTGACCGGTGCTGTGTGAGAAGGATCTTGCAGGGCG [A/C] GTGGAGATCACCCGATTGTATAGTTTTTTGAAGCATGATCAGATTAGATGGTTGTATAG
1788 CaSNP3784 TCATTTCCTTGCAATTTATGAATAAAGGTAATGTTGTGAGGTATAGAGTAAAATTTTCT [A/T] AGGGTTAATAATTAGTAGACTTGTGAAATTGACATTTATACATGTGAAAACTCATGTCA
1789 CaSNP3785 TTTTATCTTTATTTTACTTAGTATGCTTTTTAAATGATATTATTTGTGTGCCGAAAAAGTA [A/C] TTCAGTTGTGTGATTAATATATTTAAAAAATCTTATATTATGTAGAATATCTAGGGTTT
1790 CaSNP3786 AATTGGTCCCTCAATAGCAATTAATGAAACCGATTTTGTCTTTTAAGGATTGATTGGGT [T/G] TCACTCTAAGGACCATATTAATGCAGTTATAAATGAACCACCAATATTGGCCTTTGATCT
1791 CaSNP3787 TAGCACCACGTGTCATTTCCCGAATTTCTCGAGGACATATTTTTCTCGTATGCTATTTTC [A/G] GTCTTTTTGATATAAATGTCCATGGCATAAGGCTGCCAACCTATTTTCTCAATTAAT
1792 CaSNP3788 TTAATCCAAAGTAACCCCTAATTTCTTAGTGATTTAAGATTAGAATTAAGCCTTACCG [A/T] ACATAATTTCTCTTGTAAACTATTGATTTGCAACTAATTTAATGGTTTCATGACCTGCA
1793 CaSNP3789 CAGCACAAGTGGTGGAGATGGAGAAGGTTCAAGCTCAAAGTCAAGAGAAGAGGTTTAGGAC [A/T] AAGTTCATCATCAACAAAAAGAGAAGATGTTTGTATTTGCTGACAAATCCGGATGGAAG
1794 CaSNP3790 GAAGATTTTTCATCTTCTGATTTGCTGCTGCTTCCCTCTGGTTTCGAGTAAACCTGCA [C/G] TATCCTCAACTTGCACTGACTTTTTAAGGTCAAGTTGTTTGCATATAACATAATATAAA
1795 CaSNP3791 AGCGCAAGGATTCGATACATGGACTCTTGAAGTTTCGAGGTGCTGGGTTGAGCTCATATGC [A/C] GACAGCTCAGAAAAAGATGAGAAGTGTCTGAAGAATTCGCTGATATAGATTCTGCAATC
1796 CaSNP3792 AATTCCTGTTATGGCAAATAACAAGAAAAAGAAATTCATCAGAGCAGTTCTGAAGCCAAA [T/C] GACAAACAACTAAAGAATAAGAATCGCACTTCAGAGAACAACAACAAGAAATGGGAACCTT

1797 CaSNP3793 TTTTGGAGTCTTTCAAACCGCACCTTTAACTCCTTATAGTATGCTCACCATAGCTTTT [T/C] TCGATATGGCTGCTATTACATGCCTCAAACCAACAGGTTGAATTATGACCTTAAGTTAGT
1798 CaSNP3794 AATTTGAATTTCAAAGATGCTTATAATTTTCAAACGGCGTTATGGAATTTCTACTATGTGG [A/G] CTAAACTTATATGGAATTAATGTATTCTCTATCGTGTTCCTTTCTTCTTTGGAGAATAA
1799 CaSNP3795 ACAATTTTACCTTTTTAAATATATCAAGTTTTGAAGAAAGGTAAGAGATCGAACAAACCA [A/G] TAGAAGATCAACAGCTCCCTTCACATAATCTCTAATACGGATCATTACTTAAATATGTTT
1800 CaSNP3796 TGTNTNNNNNNNNNNNNNNNNNNCGACTTGTTCAGATGCATATACCAACTTGACGA [A/T] GCCCACTCAAACATCTTGAAAGAAATGAATGAGAAGTTTATCGTTATGAGCATGAGAA
1801 CaSNP3798 TCGGAAAAAATGATATACAATCTTTCTCAGCTTTATTCTCTACGTTCTCAGACACTAGA [A/G] TAACTTCTAGAAACCAACAAACCGTATATTTCTCAATTAGCATATTAATTCAACTAAAA
1802 CaSNP3799 TAATATTTAGTCTAATATCAATTAATTAACCTCTATAATATTTTGAATATCGTTGTT [A/C] TGCTGCTACTAGCCAATTGCTTTTGGTTGATGGTACAGAGTTGCATTCCCTTCGTATAGTT
1803 CaSNP3800 ACCAACATTGCACACGCTGTCACGCGCTCCGCTCTCTATGTAACGCCTCCACCAAA [T/C] CCTGCGTGAGAACGCATGGACCTGTCTCCAACCCCTTCGTCTTTTCATGATGTGGTGAT
1804 CaSNP3801 TGATTTTAAATGTGTGCGGATGGAATTTTGGAGTTAAGGAGAGAATTTGTGTTCCCGA [T/G] GTAGAGGAGTTAAGAAAGATGATCTTAGAGGAAGGAAGTATTCACCTTGAGCCACAAAT
1805 CaSNP3802 CTCTGAAAGAACTCGTGATTTAGGAAAACATATGATTAAGAAAAGATGTAACAGCTA [A/T] GTCACAGACCTGGAACGGAGCCTCCACGAGTTAATCAGATTCGCCAACTGCCGTAGCAC
1806 CaSNP3803 AGAAAAATATAGTAGAGCTATAAATAAACTTGTTTACAAGTAAATTAGAATGCACAGT [A/G] AGCATATAATTGACTTCATAAAAAATAGAATTATTTGAAAAAATTAACAATGAGATGATAT
1807 CaSNP3804 ATTATTATTATTATTATTATTATTATTATTGTTCAATTTTCTCTCTTTTCTCAGAGGGTCAAGGAC [T/C] GAGGGATAGTCGGAACCTTGTAAACAGAATGTTAAATAAAATCAACTAATTACAAAGCTT
1808 CaSNP3805 CAGGCATATCTTGATATGACCATGCAAAGACCCACATAATTAATAAAAAGTTTAAACCA [A/G] CTTTTCTCGTTCACTTTATTTTCATAGACATACCAATTTTAAATTTCTTTCTATCATGCTC
1809 CaSNP3806 ATAATTTAGATCGAAAAAATGTAATAATAAATCATACCGAGATCTCTTTGATAG [T/C] GTAGTGAGGTTGTGATTAGTGCAAATGGAGCATAAATGTTGTACACATCAAGGAACAAT
1810 CaSNP3808 ATCCAATATTTCCAACAAGTTAATTTCTTCAATTAGTGAATATGGTGGTGGTATGGAATA [T/C] TTGGAGCATGTTTTGGTGCCATTGGGTCTATTGGTGTCTTTCATGTACCATATGTGGCTT
1811 CaSNP3809 TTAAAGTCCATTATACATGCATAAGAAAGCAGGATTTCTAATGGCTTCTAGTCTAGCTACA [T/G] GGGCATAGGTTTCATCATAGTCAATGCCCTCCTCTGGTTGTAACCCCTGGCCACTAGCC
1812 CaSNP3810 ACTAAAACCTCAAATTTTTATCCATACAAGTAATGCCTCAAATCTTAAGAGCAAAACT [T/C] GCAGCTGTTAATTCAAGATCATGGGTTGGATAATTCGCCTCATGTGACCTAAGTTGTAGA
1813 CaSNP3811 ATCATCCTTCAAATCATTTCCTCCATTTTGGCCAGTTTTCATCATTACCATCAATTTT [T/C] ACATTATCAAACCAATCAAAGTAATTCATCCAACACAATCATGTCTTTGTAACCCATAA
1814 CaSNP3812 TATCCAATGTGGACTTAATTTATTTATAGAGTCAAACACTACTCAATATATAGATTTTTT [T/C] AATGGTTTTAAATTCACACACTAACATACTATATGTTCCAACGATCCCCACTTAAATAAA
1815 CaSNP3813 TAAAGTACACCACCCTAGTCGACAGAACCATAGCTAGTTGAGGTTGATGTAATCTTGT [T/C] TGATCAAGCCAGTTGGCATAAATGGTGGTTGGAGCTTGATCTGCTTGAGGTTGAGAAA
1816 CaSNP3814 CTTTCCAATTTGTTACATAAATAGCAAGTCCAGAATTTGTTACCTCATTTTATCTGT [A/G] TTTGCCATCAAGCATATGTTGGCTTCTTCTCCTTCTTCTATATCTAATTTGCTGAATCAT
1817 CaSNP3815 AAAATGGTTCCTAAATACTGTTTCATGAAACAACGACAGATCAGGGTTCGTACAACCTGCTT [C/G] GAATTTTGAACATGATAATTGAGGAGCTGCCTTTACTCAAATTTTCAATTTTCTAAT
1818 CaSNP3816 TGATGATATGGAGTCTCAATAAGAAGACTATACTTTCAGTTTCTAAAATTAGCAGCTTAC [T/G] CTTTGGTGAATATGTAAGATCTTCTGGTATTTATGTCTAGGGTTAAAACCTTTCCTTGT
1819 CaSNP3818 ATTTCAATCCAAATCTTCCAAATTTCTAAATTGATCTTGAATTACAGGGCAAGCAATG [C/G] AAAGTTATACGAAAAAGACTAGAATAACATATATAATATATGTAATGAATGAATAAAAATA
1820 CaSNP3819 TTCAATTAATAACATACAAGTATTCTTTACTCTCTCATTCTCATGCTTTGATTATTTTCT [A/G] TAGCCTCTCAGGATGTCATCATCAAACCCCTTCTTCACTCTCTAGCAACTGTGCTTG
1821 CaSNP3820 GTGGTGACACATACCCCATTTGCTGAAAGGCTTTGAAAGTGGAAATGTGATGTATAAATCT [T/C] TTGTGGTCCATAAGCATTGCCCCTTTGTTGCTCTCATACTCCCCAACAGTGGTATCAC
1822 CaSNP3821 TGTGAAATCACCCAAGACACAAAAGATGGATCAGAGTTGGATATGTCTACTGAGATGAAT [A/G] CCTTATGGAATCGCTTTCGATCACTTGATGTTCAAAAAAGTCTACAACCTCTGATGTCAT
1823 CaSNP3822 GCATATTTGCGGAGCAATAGAGTTATTTCAAATTCCTAAGCTTTGCTATAGCACTACAG [T/C] GCGCTATTTGACAACATTGCATAAAATCAACCCCTTGACATAAACTCCAGCAGCTACACC
1824 CaSNP3824 TAATTTCTTAGTGGTACAATTGAGAAAGCATTGTGAATTGTAAGAACCTTACACAGTT [A/G] GTTTTGTGAAACAATCAGATTGTTGGTTCTATACCACAATACCTTTCTGAGCTTCCCTTG
1825 CaSNP3825 AACACACCGACGCATTATCGTAACCAGCGTCTTTTCTGTTTTTGTGTTTTGATGCTTTGATCAC [T/G] GCTTATACAGATTCTGGATTCATAGAAGGAAGCAATTCAGGTTCTACGTTTGTGAAAAAT
1826 CaSNP3826 GTACATATATAGTTCATGTTACCAATAAATATTTTCTATGATACCTATATATATCTTTGT [T/C] TTCCATTACTAATTAATGTGATTTTGTGTCAAAGGAATCAATACCAATAATATATAATTA

1827 CaSNP3827 TCACCAAATAAAAACTTACATGTCTTCTCCCCCTAGACTCTTGGACCAACAACTAATGA [T/C] GACTATTGTGACCCTATAATTCATGCAATCTAATGAACTAACAGATGTGATGAGGAAA

1828 CaSNP3828 AGAGGTAAACAACACGAACAAGAGAGATTAAGAGTGTGCTTGATGAGATATAGATGAATG [C/G] CGGATAAGAGGTTAGAAAATTTGGTTTTAATGTTTTCAAGGGTGATGATAGTGTATGATAAAAA

1829 CaSNP3829 TTTCCGTTGATTTTTAGTTTAGCCATAAAAATAAATGTTGCTTGTGTATATATTGAAAAT [A/T] AACATAAAAGTGTACAACAAAAATAATATAAAAATAATAGTTAAATCATGTTCCACCTTAG

1830 CaSNP3830 TAGATCCTTAAGAGAGACAACCTGTTTCAGAGTGATAAAATAAACAATGTGTTCTATTTTTA [C/G] TCCGAACGTTCTTCCATTGCAACCATAACGTTCTTGGTTTTGTGCTTGCACGCATGTTGG

1831 CaSNP3831 AAGGTTGTTATAAGGTTGTTATTGTTGATTGATGTTCCCTATTGTTATTAGAAAGACTCT [A/G] GTGTACCATTAAATTTATAGTGAAGTTTGTACTGGACTAGGTTCCGTTGTTTTTATTCT

1832 CaSNP3832 GATATGAAAACCAATATGAAAGTGCTTTTTTGTGAGCTATGCAAGTTAAACCTGATTAAG [T/C] GAATTACAATGAGGTTAACATTTTGTGGCTTTCAACAAAATGGTTCACGCTCTATAAAGGA

1833 CaSNP3833 AATAAGAACAATTATCCTCTAATTATTTGCTAAGTGTGAAAATTAAGTTTGAAGTAAAG [C/G] CTTATATTAATGAATAACAATTTTAAGGTAGTATAAATTTATGAGTAAGTTAGAGATAATA

1834 CaSNP3834 GTCCTTCGGTACAGTTTTGTTCATCAATGTAAGCTGGATATGTAACACCTCCTCTTGTGTG [A/G] TTCTTATATGACCTAAAACCTACATCCTCAAGCTTAAGGGGTCGCATGGACCGAAGAACC

1835 CaSNP3835 CATTGTTTTATTTTCGATCAACGGATCGGTAACCAACCCGAATACAGTCATTTTATCTATGT [T/C] GATCTACGCATCGGCAACCAATCAGAAGACGATCATTGTTTTATGTAGATCAACGCATCCG

1836 CaSNP3836 AGAAAAACTTCTCTCAGTTGGGTAATTCATTCATGGGGATTTGCTTAGGTCCCTCCGCTT [A/C] TGTACCCTGTAGTCCCTAGTATACTGGTGAAGTGAATAAATATGATGCT

1837 CaSNP3837 AAGGAATCCGACTGTTTAATTAACAACAAGCATTGTGATGGTCTCCTCGGATGTTGATG [T/C] AATGTGATTTCTGTCAAATGCTTTGAATGTCAAAGTGAACGATCTTAAATAAAACATA

1838 CaSNP3838 TTCCTCATCCTCAACCTCTCACTGATTCATGATTCAAATCATCTCTTTTACGTTCCCT [T/C] GTGGTCCGCTACCCGGTGTATTATCTTGTAACTCTTTGAATCATCTCAATTGAAGGAT

1839 CaSNP3840 TTTAAATATCTTAAAGGTACTACTAACCTTGGTGTGATTATAAGCCATCCTATGAGTTC [A/C] GGTTAGTAGGTTTCTATGATGCTAACTATGCTAGAGACAAAATTTAGAAAAAGCACCA

1840 CaSNP3841 TAGAGTTAGGATAGGTTTTAGTGTTCAGAGATACACACATAAACTTTTATGTGAAAATTT [T/G] GGGCTTGTCTGCTTTAAAACAAGATTTAGGATGTTAGATATTAGTGAATTTAGAGTTTTCT

1841 CaSNP3842 AAGTCTGCTCGATGTAACCTATATGAACCAAATGGGTTTTTAGGATGAACTAAATGAA [A/C] AAGGTGAAGTGGTAAGAAACAAGTAAGGCTTGATATCTCAGAGTTACATTGATTAAACT

1842 CaSNP3843 ACTGAGTAAGCTTAAACGTATCAGGAAAACTCCATGTTACCAAGCTTAGTAACCAACC [C/G] CATAATTTCTCATCAGCAAGTCCTTTTCCGGGGCGCTCCCTCTTCACCAACTCCCCAAA

1843 CaSNP3844 TATGGAGAATCACTATGTTTTTCATAAAGTTCCTCTATAAATTTGTCATCACAATTGG [T/C] TTTCTGTAAGATAAATTTGATACATCAAAACATAAAAACAGTAAAACAATGAATAAAAG

1844 CaSNP3845 ATATACTATTTAGAAAGATAGAATGATCTTGTAAAGGAGACCTACCTAGAGTTGAAAAG [T/C] CACAAAAGCAAGTGAGTCAAGTATGATATGTAGAAAACAATTAGTCGAGGGAAGGTGGA

1845 CaSNP3847 TTTACTTTTGTAGACTATATATAAATCAACTGTGTCTTGTGAAAAGAAGAGTAATGTTT [T/C] TTATTAATAATGTATAGCAATATGTAAGATGTGTTTCTGTTTTGAAACATTATATGTA

1846 CaSNP3848 GGCAGCCTTTTTTACTGCATAGGTTGCCACAAAAGAATTGTATCGTTAAGGTTTCCTGG [T/C] CGCTTTGGCTGCCACAAAGGCCACTTTTTCTACCTATATAAATCACTATTCTCTTATTT

1847 CaSNP3849 ACAATTTTTTTACACAACAAATCACAAGATGATTTTTTGTGCATAAATACATCTAATGATG [A/G] TATGGTAAATCCAAGCTGAAGTACATGGTACATTACTTACCTATATGCATAAACTTA

1848 CaSNP3850 AAATTTAAGAGGAGAATGCTATAAGGGTTTCTCGGTCCTTGATTTAATCTGGATTTTTTCG [A/G] GCGATTTTCTGACCATAAGACAAAATATATAGAAATATGATTTTTCGGACCCGATGGTGG

1849 CaSNP3851 AAACAGCCCAAGACAACCACAAAGCACAATATTGTATGCTCCATTAATTGAGTAAATAGT [T/C] ATTTTTGGTAATTGAATATGTGATGCTCAATCATTATAGTTTATGATTGCCATGCATCAT

1850 CaSNP3852 GTTCAAGTTTGGGAGGAACCCACTCTGATATGTGATACCGGGAATAAGGTTTTAATTT [T/G] TATTTACTTATTTAATTTGAATCGAATATTTGTATGAAAACCTTAGAAGTTCTAGTAAG

1851 CaSNP3853 TTGACTGCTCCTAATTGGTAAAACTTTTTTAGCTTACCCCATTTGTCCTAGGACTCATT [A/G] ACCATACTATTCCATTGTCCTAATTAATTAATTAATCATAAGTTCAAAGTCCAAACCAA

1852 CaSNP3854 TGACACTTACATAACACATTATGTAGTATTCTCATGGCGGGTCAATCCAGTACACGTGTA [A/T] CCTAATGTGACTTATATTGTGATTTGATATTTTACATATCTATAACATGTGAGATAAGGTT

1853 CaSNP3855 GCAACCTCAGCGACGGTGGCAGCGCCGACAACGACAATGACGACAGTGCATGGACGATG [A/G] CAACAACGAAGAAGACATCATCAGTTCGAATTTTTAATCGTTTTATGTTTTGTTTCAT

1854 CaSNP3856 TCCCCTCAACTCAACCCGAGACACATATACGCGACAATCGGGGTATTCTTGCCTTGCACG [A/G] TAGTTCCCGCCTTAGGAAATAACCCACTAATCCACTTAGGAATTTCCCCACTAGATGTA

1855 CaSNP3857 TCCCGTTATCACATATAAGAACGAGGTTTCTCCCAAATGTGAACTTCAAGACTCATAAAC [T/C] TGTAATAATTGTGATTTCACTAATGTAGGGTCAAGCTAGTCAACACAAAACAATGAAAGA

1856 CaSNP3858 TTGAAAATTAACAAGAATATTTCAAACCTTGCCCAAACAACAATGAGTATGAAGTGA [C/G] TCAAACCATTGAAACTTAACCCTTCCCAACGAAACCAATAAATGAATCCGCAAACTG

1857 CaSNP3859 ATGCTTAGTCAAGGTTTCGAGGACCATCTCACTCAAATCCTGAAAAGATGGTTGTGACC [A/G] AAACATCAAATGAAAATAGATAGATGCTCAGTTGTGTAGTGTCAATTAAGTCTACACTTC
1858 CaSNP3860 CTTGATATTTCTCATCAGTAGCTTCTTCTTCAAACCTATTTCATCAAATCATTCGTTACAC [T/C] ACCTTCTACGTCGTTATCAAGACCAACATCAACCTTAGTCACGAATTACAAAAATTAGAA
1859 CaSNP3861 TTTTTTGGGATGTGGATGATAGAATTTGTAGTCCTTTTGGGTGGTAGAGTACTTGATACA [A/G] ATACATTTTAAAGGCTCTAGGATCAAGTTTCCCTTCTACTATCAACATGAATATGGACAAAC
1860 CaSNP3862 TATTATATCTTGTATATGTGGATGACATGTTGATTGTTGGTCATGACACTGAGAATAT [T/C] CAATATTTAAAGAAATATTTGAAGAAGTCTTTTGAATGAAAGACTTGGGTCCTGCAAAG
1861 CaSNP3863 TTATCTCATATTTAGGGTTTTGAGACTTTTAGGGTTTTCTATTTTCTCTCTACTTATAT [A/C] TTCCTGTAATCCTTTGGTATATATCTTTGGTCTTCTATTTTGTATTGTTTTGTTTCTGT
1862 CaSNP3864 ATCGGAAGTCTCTAGTGTGGTTTTAGGGCTTCCTATAAAAAGTTACCCAACAAACCATTT [A/C] TGCTATTATCAAATGCCTGGATGAAATCATGGTAAATTGAAAATGAATATGAATCAAGATT
1863 CaSNP3865 AGAAGCGTAACCAGGATAATGTAATTCACAAGCTGCAACCTTCCCATTATAGACAAGAGT [A/C] TGCCTTTCCAAAAGATCTTAGTTTTTTATACAATCCACAATGGCAAGGAATTGAATTTTT
1864 CaSNP3866 CACTAGGTAGTCTTCTTAGTTATAGATTTGGTTGACTCTTTCACGGGTTTGGTTTTGCT [A/T] CCCCATGTTTCTTGTTTTTCTCACTTTTCTCTTATTTTTAATGATTTGGTGTGCTGCAGA
1865 CaSNP3867 AATTTATGTTTAAGATTCAATACAACCATAATCCAACAACATAATCTAATTGTTTAATA [T/C] ATTTTCCAAAAGACTTTCTAGACTCAAATAGCTGCAAAATACATCATGACTCAACAAAGT
1866 CaSNP3868 TTAAATTAAGAAAATAAACTTAAAAAATCTAACGGAAAATGGGTTATCCTTAAAATA [A/T] AAGTGCATTTATATCTATATTTTTTTAACAGGTTACCGTTAGTTAGTTTGTGACGGTTAA
1867 CaSNP3870 AAGCAATATCATTCTCCAAGTTGAGCAAGCATCAAGTACGGATTTGACATATTCGATTG [A/G] AACTTCAGCTGTAACCTTTGAGCATCCTGCACACATGACAAAAATCAGAGAATCACTTTA
1868 CaSNP3871 AATGTAATTTAGCCTATTTTATATAAAAAATGTAAGGAGGTGATATAAAAACTAATAAT [A/G] TGGGTGAATATTATGTTAATACTCGATGTTACTTCTACATCTTGAATTGATAGATAAG
1869 CaSNP3872 AATCCTATTTAAGTCAAACATAGCAGCAAAAGTTAGTACAACAGAATCTAAATTTTAGCA [A/T] TTTCGGGAGTTTACCAGAGTCTGACTGATAGCTTTGTGAATCAGATCCTTCAATAAGGAA
1870 CaSNP3874 CTTGTAGATGAAACAAAATGGTGCAGAAGGAGGCAAGAGTGACAAAAGCAAATACAACG [A/G] TAGAGAGATATGTTGTTGACAAAATCGTTGGGCCAGAGAAGTTGAAAGTAGGAGATACAAG
1871 CaSNP3876 AAGATAACAAATGCATCTGTTCACGGAAAAGAACATCATCGGCGAAGATACATTAAC [T/C] TTCTAGAATCTTCAAAAAGGAAAAGAAAAGGAAAGCTTTGAAGTCTTTAAAAGGAAGCA
1872 CaSNP3877 TTTAGGTTTTTCTTGATGAAGTCAAACCTATCTTCAACTAGTGGTTTGGTGAATATCTCA [T/G] CCCATTGATGTTTCGATTTCTACTCAACTTCTGTTGTTGACATGACAATCGAGCTTTGTCT
1873 CaSNP3878 ATTTGAATGATATGAACCAACACATTAGGAAAACAAGGAAAGTAAATATGCATGATACCC [T/C] AAAAACTATCTCATAGATAACGATGTCCAAAATAAGATGTTATATACGTTACTAATTT
1874 CaSNP3879 ATCATGTTTCTTGGCTCCTCATTAATCTCATGAAAAATAAAAGACAAGCAGAGTCTCT [A/C] AATCTTCTACTGAATTAGAGTATTGTACCATGTCTACTTCTTCTCGAAAATTAATTTGGC
1875 CaSNP3880 TGACATAAACTTAAGCAAGAAAATGTTTCCAAAACGAACTTCTGACAGAGTGCAAAAC [T/C] GACCCACATATCATTGGTCATATACAGTTTATTGTTACGGTTTATGGGCATTAGGTTTAT
1876 CaSNP3881 TTGTTATGATGATTGATGACACTTACCCTGATATGTTGCTACTGACTTTCCCTTATTGA [T/C] TGGTTTTGATGATACTTGTGAATCTGTACAGCTACAAAATTGAGCTTTGTGTGTGCTGA
1877 CaSNP3882 ACCGTCTCTAATGTCATAATATTATTGGCAGGTGAAGCGTGTATACTATCCAGGCTTGCC [A/T] AGTCATCCTGAACACGAGCTTGCCATGAGGCAAATGACTGGTTTTGGGGCGTTGTGAGT
1878 CaSNP3883 GATAATCAGATTTAGTCATTTTTCATGCATTATTAATAACAATTCAGACCATGTGCCTG [T/C] GGTACCGGTAAGCATAAACAATTTCAATAATAAATACACATAGATCTTGTATATCCTTT
1879 CaSNP3884 AATAGAACTATAGATGACACTAATTTAATTGGCTTTGGATGGCATGTAAGTTTCAATTTG [A/G] TAATTGTATAATTTACATATACTTTTACACACAAAATATTTTGTGTATATGTCAATTTG
1880 CaSNP3885 GAGTTTTTGTCTTTGGCTAATGTGGAGGCAAAGATAAATGTGAACATAGGGGATGTGATG [T/C] TTGTCAATGAGTACCGAGACGATTTCCAGCAGAAAATCCAGGATTGCCACCGGTAAGAG
1881 CaSNP3886 GATAGGTTACAGGTTAGAGGGAGGGCTAAAAGTATTGGTTTGTGGGGATAGGGAACAAAA [A/G] GGGTTGAGGAGAAGGAATAAAAGGTGTTGGTTCAAGTTCAAATTTGGGGGATAGGAAAAG
1882 CaSNP3887 TGAAGTCGGAGTAGAGAAGCCCCATGCGACGTTCTGTTGTTTACAGCAAGAGTTACTTCA [C/G] TTTTAAATGGTTGCAAGCACAAGAGGACACGTTTGTAGGTAATAATAGATGACAATTGAG
1883 CaSNP3888 AACACAATTTTAAACATGAAAACTTCCCTCAAATGAGAGAATAAAAACCACGCGACCT [A/T] GTCCAATAAAAACTTCCACTATAATAATTAATGGGTACACCAGAGTGTTCCTAATAACAA
1884 CaSNP3889 CCTAGAACCACATGCCAAATGTGAAATCCGTTATAGAAAAGAACTGACGATTTTCTAA [A/G] GATAATCCCTTCAACTCGGTTAGGTGGTGAAGATGTGTGCTTGTGCTGCTGCTGTTT
1885 CaSNP3890 AACTAGGGATGGGGTTCAATGGACTGTTGTGAGTCCAAGGAAGAGGAAAGGCAAGCAAC [T/C] GGTACAAGTCAGACTAGACGGTGACAAAGGTTAATGGCAGCAAATTCATGCATTATA
1886 CaSNP3891 CTTGACCCAAAACAGCCCCAACCTAAATCAGAAGCATTAGTTTCCAAGATAAAAACCT [A/G] AGAAAATCAAGTAAAGCAACACATGAGCTTGAAGTTATAGCTTGTGAAAGTTTTGAAA

1887 CaSNP3892 AGTCATAATTTACTCTTTCTCGCTTTGTAGGTCATAAGTTGAGCTCTAGACATCGGATT [A/G] GCGCATATGAGCAAGCATTGGAAAGATAAACATCTGAGCTACAAATTTTGTGTTGGAAGA
1888 CaSNP3893 TGAATTTACTCTGTTGTTGGAAAATGGTAAGCTATATATAGTCTTGTCTTAAAGGGAGAT [T/C] TATTGCTTATGTTCTACTCATTCGTTGCCAGACGATGAAACCATACGACATTTTCTTTTA
1889 CaSNP3896 TAAGACATAAGACAATATTTTTCAATTGTATTTATACTACCACCTCTATCGCATTCTGTCG [T/C] GACATTCTCTCATTGACTATTTTTCCCCCAACCAAGAGGCTTGACTTCTATTTAATGTC
1890 CaSNP3897 ATCCGACTATTCACAGTGACCCTGATGTGTTC AATCCTTCAAGATTTCCCTGTGAGTCTAT [T/G] TCTACCCCTCAAGGCCCTTTTCCCTCTGTTTAAATCGAACATATATGCATCATGTGAC
1891 CaSNP3898 ATGGCAAAC TATTTGTTTTTCA AATGTCAATCTTCTCTAGAGTGTGGTGTGAGATGGCA [A/G] AGTGGCTAGACGTAATGAGTAATACTTCCA AATGTCACTATAGAACGTCTTCAA AACTTT
1892 CaSNP3900 AAGAAGATGCTTAGTGGGTTTGGATGATCAA AACTTTATTTGAATACGCAACTTTAGAAGT [A/T] CCATGTTAATATTCATATGGCTTAGTTGGATGGTAATGTTATCGTTAGATTGAACATTTT
1893 CaSNP3901 ATGTTACTAAAAAGAAAGCAACTTTATAGAGTTAATTTATTTATGTGTGACTCTAGGTT [T/C] ATAATGCTCAGTGGTTGTTCCGGCTTCTACACCTATGCAATCTATGAGCACTTGGAGGAC
1894 CaSNP3902 AAAAT TATTTGGATGAGAGATAATAAATGTTATAAGAGAGATAGAAACAAAGTTACCAG [A/G] GAATGAAAGGGAGACAATCTCAACCCATTACACAACCTCATATCATAGTAGCAACAATTT
1895 CaSNP3903 GGCCATCAATTTAGGATAGCACTGAAATACTGCCTCCAGTATTGCTAAATTAAGCTACAA [C/G] GGTGAAACAGAGGACATATGTTGGAGGAAAGTTGAAACTTGAAATACAATGCATTGGGCT
1896 CaSNP3904 CTTTGT CATAATCAAGATGTATTTCTATACTAAAAACATCATTCCAATACAATCTAGGA [T/G] GATATGATAACTGACAGCTAGGAATTTTGCTTCCATGAAAACACTTAAGATTGAATAATC
1897 CaSNP3905 AATTGAACCGATTAATTTATAAGATCAAATAGTGAATGAATCAATTAATTTACATTT [C/G] GCAAATAAAAGTGATCAAATAGTGAAACATAAATTTGACGCTAGATATCAATTAGAGTGT
1898 CaSNP3906 ATCATCTTTGGATGCATATTTATTGCAAGAAGCAATAAAGGATGAAATGGATTATCTAGA [A/G] TCTAACAGGACCTGATATTTGTAGACTTTCCTCATTGTTGCAATCAACAGGTTGTA
1899 CaSNP3907 TCATTATCATATCATTTTCAA AACCATAAAAAATTAAGTCTTGCTGTGAATAACTTTAATC [A/G] CGGGAAACATGAGATCAATTTGTGGCTCAAACATTACTCCATTAGGAAAGACTTTGCCAT
1900 CaSNP3908 GAAAGGTCACATGATAGATTGTATAACCAATTTTGTGGTTACGATAAATGGTGTCTAGA [A/G] ATTACCATTGATGTGGTGTGATGAATTATAAGTAAAAGTAAATAAATTTATCATTAATAT
1901 CaSNP3909 TAGTGTGCTTTTGGAGAATCTTCAA AATAAATATATGAAAAAGTTATAAAGCATTTCCA [T/C] ATGACAAAATATTAATAAATACAATTTGTACAGGACAAAATAAATTTACAAAATATTAT
1902 CaSNP3910 ATGTAGACTTATCGTGGTTCA CCACTA AACTTGACTACATCATGTCCCCACATTCAGAACG [T/C] TTTAATCAACTAATTTAAATACCTTGAATTACAAGAACCTGACCCCTCAAGCCAGTCTT
1903 CaSNP3911 GACAATATATAATATTTTGGCTTGCA AATGGATTCTGAACAACAATGCTCTCATGAACC [A/T] CTCTACTGATTTGATTATTGACACCCTCTATTTTAAAGGACGTGTTAACAAACACAG
1904 CaSNP3912 CTAAACTGAAATTAAGCTAAACTTAA AATACCATAGATGTATTTCTTTTCA TAAAAAATG [A/G] ATCCCATGAGTTTCTATATCTATATATATAGAACTAATTTATCATTGAGAACTATCTA
1905 CaSNP3913 TTTTTCATTTAACATTC AATCACTTTATGTTTTATCAACAATAATTTCATA CATTTGTCG [A/T] TAAACTCCATTTACTTTTCTGCAAATTCACTCTCACACGTATTTACTTTTCAGTCATTTT
1906 CaSNP3914 GAAGATGTTCTCCACCAA AACAACAATATTGAGAAGGATACATCAAAGACAAGGAAG [A/G] ACATCCCAAAGATACTTACTTATTTACAATCAATCATTGATCAACAAATTCATCAAGATA
1907 CaSNP3916 ATGAGGTTAAGAACAATAGGAATGTGATGTCATATAAGTTAACCAAAGAAAGATCACACA [A/T] GGAAGAAGAAGAACTTTAGCACGATGTGTGTAAGAGGAACAGAGAGAGAAGAGAGAA
1908 CaSNP3917 CGTCTAGTCCTCACA AACTGTTCAA AACAATCTTGGTTTTACACCACCAAGTTCATATCAAC [T/C] TTGATCTGTTACAAAGCAAGTCCCTTCCACCCAGAAATGAGTTCAAATCAAGTCACTAT
1909 CaSNP3918 GTGTTGAATATAGAATGAAGAGGA AAAAAATGAGTTATGAAGAAGATGGAATAAAGAAAA [T/C] GAGTTATGAAGAAGATGAGAAGATGAGTTATGAACAGATGAGTTGTGAAGAAGATGAAA
1910 CaSNP3919 AGGAAATTTAAATAGGAAAATTTACA AATCAA ACCCCCTTTTCTTG TAAATCGACATTG [C/G] TACTTCAATTGGCATCAGAGTCCGGTCTCTAAAGTTGAGCACCTAACAAAGTGTGAGGA
1911 CaSNP3920 ATGAATTTGTAGTCTAGGGATAGATGCAAGTCATGAAACCAATTA AATAGTTGCAAAGA [A/C] AATAGTTAAACAAGACAATCTTGTACGGTAAGGCTTAAATCTAATCTTAAATCCACTAA
1912 CaSNP3921 TTTGGATGTTGCTAGT GAGGGAGCATTGTGCGATAAGACCCTAGAAGCAACAAAAGCTTT [T/C] ATTGAGAACATGTCCATTAATTTCTCAAGAGTTTACAAC TAGAAGCAATTCAGCAGTGTG
1913 CaSNP3922 TTAGTTTTTCTTTAAACAATGTG TAGGCTTCAAGTTGTGTAGAGAATTTT GACTTGTAGG [A/G] TAAATGTGTGGTTTTGCCTCCAAAAGTCTGTAGGTTAGGTTGTTTTGAGAAGACTGACTT
1914 CaSNP3923 GAAAGAGTTCGTCCAGCCCAATGCCA TTTGCGATGGCATTTTTTTAA AACC AACTGGAT [A/C] GAAGCATGTATCATGGTGA AATAGACCGAATTTTTGAACTCAATTTGTGTTATTCATG
1915 CaSNP3924 TTCTTCATTTCC TTTATTTATTTATTTCTCACA TATACTCATCATTGCTTAGGCCTCACCTC [T/C] TCTCTGTTAACTAACAGATCCCCTTCATCACTCGTGGGATCAAGCCCATCCCACCATCA
1916 CaSNP3925 ATGTAGTGTGAGTCTTTTATCTCTC CACTGTTATGCTAAAGCAGCCGATAAAGCACATAA [T/C] TAAGACTGTTACAAAAACTGAAAAACCAACTGCACTGAAACTGACCGAACCACTTTTT

1917 CaSNP3926 TCTCGTACCATTGCTTTTATGGATGCTTAATTAATGATTCATTGTATATTTGATTTC AAT [A/G] TCATATACTCCTTTTATTTTGGTTGAAAATGTAACACACTCAACTATTTGCATTTAAAAT
1918 CaSNP3927 TATACATACATGATGTCAGACCTAGAAGTGGTAAGGTAAGTAGGGATCATATCACTCCT [A/C] TATAGATTTTATTGTCAACTTTGTGCGCTGAATCGTCTTTTTC AAGTGAACAAGTAGGGT
1919 CaSNP3928 ATCCACTAACAGAATGAGTGACTCATGCTTACTGCAAGTAGATAGATACGAAACCAGGAT [T/G] TAATTACTATGACCAAAAAGAAGCACAAGATAACACGTAATTTTGCCTGACAAC TTTTCAG
1920 CaSNP3929 CATATTGAACTTTGGAACTTTGGAGTTCCCTATGGTTGGAGCAGATATATGTGGCTTCTC [A/T] GGCAACACAACCTGAAGAACCTTGCCGGCGCTGGATCCAGGTAACA AACAATAGATCCTCTA
1921 CaSNP3930 AAGTTTTGAAAATCATTATTCATCTCTTATGTGACAATATTTTATGTCATATAGACGTAA [A/G] TTACTATACTTTTATCAAACGAGAGATATCCATTATGAAGGTACTTACGAGTTGTTATTA
1922 CaSNP3931 TATTCATAAAAATAAGATGAATATGGAGTATGGCTAGAGTTTGCAAACAATTCATTATACG [A/T] TGTGATTATGATAATATGTTCACTGAACATTTCTGCTGCATCTAT TATAATATTGCATTCA
1923 CaSNP3932 GAATTGCCTTGTGTTGCTGCCAGTTACTAACAAGTCATCAACATATAAGCATAGTATGA [T/C] CATTGCATGCATTCCATTCAATATGAAATGCTTCACATAAAAATCGATACTTCACTATGTA
1924 CaSNP3933 CTATACTTCATCATTGGTACCATTCTACTCTGAAGTACTTGGTTAGGAGGCCTGATACT [A/C] TGCCACTACAAGAGTGGACGGACGATTCATGAATGACCAAGTCCCTCATAGATCCCCTCAA
1925 CaSNP3934 AATATTCAAATGGAAATTTATCGAAGTATAGTATATACACATTCTTTTTCTTGATCCAG [A/T] GAAAAGTACTTTCCATAGATGTTTGTGTTTACTTCACACATGTTAGGTTTGAATATAACT
1926 CaSNP3935 ATGGAAGCAACTTAATTTAATTCCTTACTTTCCATATTATAGAAATAAATAAATTTTGA [T/G] GGTGTTACTTTGAACTAGCTAGTGCCCTAGTGATATTGAAATGGGTGCTTAAAGTACCATA
1927 CaSNP3936 CTCGGTTAACACACCTCAATGAGAGCCAACTTTTGTAGTTGTTGTTGTTGTTGTTGGAATT [T/G] TAATGTGTAGTTGATGGAAATAAAAATTTGAGTTTCGTTGAAGATTTAGGTTTTGGGTTT
1928 CaSNP3937 TTAGATGCATAGGTAGAGTTGGTATAAGCTATCAGAGTCAAATCTGCTTCTCTCGTCA [A/T] CAGAGGATTCATCAGAATCATTCCATGATTTGGATATTTGACTTGATATGTCCAGATT
1929 CaSNP3938 GCCACTGACTATACTAGATCAGACATTGCCTATGTCGTGCGACTATTGTGCAAGTCTATC [A/G] GTACACTTACGATGGAGCATTGACATGTGATCATAGCATTGGGAACATGTTTTAGCTT
1930 CaSNP3939 TAGAAGATGATGGACCATGTGTAGTAGTAAGTGGACTTGAAGGTGCATCAACAATAGGTG [A/G] ATTCGATGGTGCAACAACAGTAGGTTGATGGATCATAGGATGTGAAACATTTAAGTACCA
1931 CaSNP3940 TGTAATTCGATTGGATGATCTCGAAAAGCTCATTGATTGTTCCAATATTCAGGTA AAAACT [T/G] AACCAAAATTTGTTTACTCTCTCCATTTCAACATGAATAAAAAACAAAAGCATTATAAAA
1932 CaSNP3942 CACCACTATCTGCAGTAAGAGTCTTGGCGACCTAGCCATTGTAATTGGAATTAGCTTGC [A/G] TACTTATTTCTTTCTCTTTATTTTTATACATGGAGAACTAAGATGGGGCCTTTACACATA
1933 CaSNP3943 AATTTCGAATGCAAAAAGATGAATATAATTTGGATTAAATTTCTTAATATCCTCTTTGA [T/G] ATATATTTTGAATAGTCAACAGATTTTAGGATATATATTTTATTTTAAAGTTGATGGTT
1934 CaSNP3944 CTGGTGCTTGTCCCTAAGACTGAGCCTTATAAGAATGGAGAGAAGGAAGTTGACGGAATGA [C/G] TAGTGATATGAGAAAGGTTGAGATTGAAGAAGTGGAAAGTGCTAAGGTGAAAGGTATTAT
1935 CaSNP3945 TAGATTACACTAATATGTTTGTCTCGATGGCAAGGTTAGAAGAAATTCGCATTTTATTAT [C/G] TTTTAATGCCTATAATAGTATCGTCTTATATCAAATGGATGTCAAAGTGCATTTTAA
1936 CaSNP3946 TATAGCCATTGCTTGCTTTTGGATTATCCGATAAGGTGTTCCAATCAACATCATTGTATC [A/C] TTCAAGGACAATAGAAAATATTTGATAATATAATATGAGATTCATGGTCATTTTAAAGGTA
1937 CaSNP3947 GACCAGATATTATGTTTAGTGTCTGCTTGTGTGCAAGATTTCAAGGAGATCCCAAAGAAT [T/C] GCATCTTATAGCAGTAAAAAGAATTATGAAATATTTGAAAGGAACAACCAATGTAGGCCT
1938 CaSNP3948 ATTACATATGGTATTCATAAAAAACATGAATAAGTAAACAACCCACATTCATAGTTGAA [A/C] AATCTACAACACTAACACAACCTTCTAATTCAGACAACCCACATTCATCAAGAGAGAAAAT
1939 CaSNP3949 GGGTGCATCTGCTCTTGCTTACCTATATGACAATCTTCGAGAAGCCAACATGCATCAAAC [T/C] AGAACTGTTTCAGGGTATCTGACACTTTTACAAGTAAACTGTATGATTGTTTATTGTGTT
1940 CaSNP3950 AACCTAAACTCCTTAGTCAGGTGGTCAATTCTTTATTATTTCCATTATACTTCTGTAAAA [T/C] GATGCTTTTTTTTAAATCATTTGGGTGATATGCTTTTTTAGTATGTATAATCGACATTTTA
1941 CaSNP3951 TATCAAAAATACTAATTAGTTTATTATAAGAGAACATTATAATTGCATATCACCATGCCT [T/C] AGCACATAGAGATATCGAAGCACATTGACATAATTGCATAATGTATTTTGGCTAGGACAA
1942 CaSNP3952 TCTTAGTTATCCCTAACATAAGTTAGGATTGCCAATGGTTAACAAGAGACGAGTCTTAC [A/G] TGCAGATTATTTGAGTTGTACTTACTGGACGACTATTACTTTTCTTAATATGTATAAAAA
1943 CaSNP3953 TTCATTAATATATCTAATCCATAACAATAATAATAGTATTTAAAAAGTAAAAATGTGAGAG [T/C] CTCTTGACTCCACTTAATGGGACGCGGACACCATCGTGGTTACTCCTCTAAATTTGGTCTT
1944 CaSNP3954 GTTGGTGAAAACGCTTATTCCTTCGCAATATGGTTCACGCAAAAACACAAACACCTTAAC [T/G] ACGCCACCATTGTTTGGATGGCAAACCGTGACCAACCAGTCAACGGAAAAAGTCAACAC
1945 CaSNP3955 TCATCCTATTTATTATTA AAAACATATACTACTAAATTTGTGCAAATTTGTATACGTGAT [A/T] TAGCTAACAGAGTACTAGTACAAGATAACTCAACACTAATATTGATTTTCTTCTACAAA
1946 CaSNP3956 TCCCATAGTTCCGGTAGTGATGGACCCACCATCACAAGCGAATTCATCATTGCTTTGAAA [T/G] TGTACACTAGTTAGGAATCGAAATCAGATCTCTACATTAATATGTAGTTATGTACCCTA

1947 CaSNP3957 ACTCAAACCTCCAAGAAGCTACTAATCAAAGATCAAGATCATGTTTAAATAGCACACAAGA [A/G] TGATATGATTCAAGATTTAGGTTATCATAATCAGTGGACAAGTGATGAATTTTCAAAGGA
1948 CaSNP3958 AGTATTGTTTTAATCTTTTAGGATTTCTAGTTAATTAGAGGAGTGCCTAGGGTGATAAGTT [A/G] ATGGTTGGAGTTAGTTTCCCACATGAAATGTAGACTATTATGCTCAAATATGTTGATTGA
1949 CaSNP3959 TTGGCATATACGCATTGCATTAGGGTGCCTTGGTACACGAGTCGTGTTTGATATGCTATGA [A/T] GATTGCGTGTGTATACTTAGTTGTGGTTGTGATTGTGCCTAATTGGTAAAGTGTGATTGT
1950 CaSNP3960 TAATCTAATGATCCAGGATAACAGTTCTCGAGTTCACAAAATACTTAGTATACTTTTCT [A/G] TGTTGGGAACTTTTATAGCCTAATAGTTGTTGTTAACTAGTATTAGAACCTAGAAGCGC
1951 CaSNP3961 AAATTCATAACTTCAATAGATATTATATCAATTTTGTAATTGTCGAATTTATTATTGC [A/G] TATATCAAAATACACAATATGCTTTCTATATACAACCTATCAAATTTATTGATTAAAAATTT
1952 CaSNP3962 CATCTCATTATAATATGAATCAAATCATCTAAGAGTAATTATTATTACTTTTGAAACACA [T/G] CAATCACCACAAAACAATACAAGTAAATGCAATGCTATGCATGAGCTTAGACTCTACTT
1953 CaSNP3963 TGTGTCATATGAATTTGAGATTCAATTAGCATCATTATATCTTCTAACACATCGAGAAA [A/T] ACATTATACTCAATACCGTAATTCATGTTACTTCTCAAATTTTCATAACTCTAGCAAGT
1954 CaSNP3964 TGAGAGTTGAGGGGACAATGCTGATGATCTAGAGAAGATGGTAGGATTTGATTTGTATA [T/C] GGATGAGCTAATACAGTGTATTGATACAGTGTATTGCTACGATTGAACACCTAAATGA
1955 CaSNP3965 AAACCTTTTTTCTTCTTGGATCAAACAATGCCTATGCACCTGTTAGATGATATCCCACC [A/C] AAATCGTGACTTCCCTTTTGTCTTACTGCTTTTTTCATTTGCAAATCATGAACATGCTTAT
1956 CaSNP3966 CAGGTTCCCTTGGTAATTTTGGAACTGATGGTAATCTGATTCTTTTGGTAGTTCTAGTT [T/C] TATTAAGATGTTTGATTTTTCTGCCATTTTGGATTTGTTGATATGTTGATTCTCTGCTC
1957 CaSNP3967 ACCCAAGCTATAAAATAATCGGTGGATATTGTAGCCATTGGACATATGATAGTTTTAAC [A/G] TTGGTTTTGCACAAATCAAACCTTACGATGAGCAAAAACGAAGCAAAATAGTAAATATCAT
1958 CaSNP3969 AGTTGCTTTTTATTGGAGAACGCGATAACCAAAGTACAAAACGAGAATGGGGCGATT [T/C] AAAACGAGGTGAAAGAAGACATTCTGAAACGCGAGTTAGGTTGTGAATCAACGAAAAAG
1959 CaSNP3970 TAAATTAATAATTAAAAATAAAATAAAGTTGGAGATTAGAGTTTTCTTTGCTCTCAT [T/C] TTTTCTCTATTTCTCCTTATTCTACAAAACAAAAACAAAAATTAATATTAACCTCAATA
1960 CaSNP3971 CTCTCTCTTCTAACCTAATTAGAACACTCTCCACTTAAATAAGTGAGACACATGAACATA [T/C] AATATTTAGGTCTTCTCCTCATATGAAGGGAGCCCAATACTCAACAAGTGATGCTTATG
1961 CaSNP3972 GAAATGTTGGTGTAACCTCAATTGAGTTGCCATTCAACGTTGCATTTGCTTATATGGAT [A/T] GTGAGCGTCAAGAAAACCTTTGTTGGGCATTGGAGAAGTTAAAGAGTTGTTTGTGTTGAA
1962 CaSNP3973 AACTAAGTCTGTTGTGGACAAATCTAAATGAGCATTTCTTTCTTCTTCAACCACAT [T/C] ACCACCTCATCCTACTTCTAGCTGCACCTCTGGTTACATGAAAGGAGTACCTAAGAGAC
1963 CaSNP3974 TTCATTACTTGTTTTCAAAGTGCATTAACACTTTGTGACAGTCATTTACTTCTTAAG [A/T] ATTTTACCTAAGTCCAGTTAGTGAATCATCTACTATTACAATCCATATTTTTTCCAT
1964 CaSNP3975 TCATATAGGTAGGGCCTGACAAGCCTAGTGATTTTGGGGAAGTACAAGTGAATGAGCCCG [A/T] TGGTGGCGGTCTGCTGTGCAACCTTAAGGCAAGATTGTTAGACCTTAGAGGTATACGGGT
1965 CaSNP3976 CATTCCGTCTACCTAATTTGAGTATGGCTTTCTATACATAGGTCTATTTCATGGGCTTTAG [T/C] TGTATTCAAAAGTATCTCTTGATGGTATTGACTATGAGGTTGAGATTAAGGGTGGGGGTT
1966 CaSNP3977 CATGTATCCTCTACCTTTGATTTTGATCATGTTCAACTGCCTCTGCTCTAATCATTATT [C/G] ACGACCTCTAACTCTGATCAATGTTTCATCTGTCTTTGACTCTTATCATTGTTTCATCTTCC
1967 CaSNP3978 AATGAATTTTCTACGAACCATGTGAAGTATTGGAAAACACAAGAAAATAGAAGTTTCAA [T/C] TGTGTTGATCGTTAAACTTTCTTTTATTTAATTAGTTCTTTTTCAAAGCTTATCTTTAT
1968 CaSNP3979 AGCAAACACAATAACTACAGTGTGTGAGTTCCGTATAGTTTTTCTCAAACCAAACGGA [T/C] CCATAATGCATTTTTGGAGTATTATATTTCTACCTGTTCTAGGGTTAGAAACATGATCAC
1969 CaSNP3980 TAGATATAATTGGGTCCAAATAACATTACTCATAAATTTATTCTAACGGTACAAATTAAT [T/C] TCAACATTAATTTTTGAACAAAACAAATGGATAAAATCATAATAGACACAATTTATTAC
1970 CaSNP3981 TCATATGTATATTGTTGAGTATCGATGAAGGATGGAAAATTAGTGTTCGTTGTGGAACAC [A/G] CACACAATCATGATTTAGCGGATACTTTAACCGGTCATTGATATTTTGGGGCGTTTAAAT
1971 CaSNP3982 ACTTGAGCGCTTTATAAAGCCATGGATGAGTTGGTGGTTTATTTTCATATATAATAGAAT [T/G] AGATAACATTTTCATGGTTATATTGAATTATTATTATCACCAAATACTTAAAGAAAAAAT
1972 CaSNP3983 TTAATTTTAAATGGATTTTTTATATAAGAATTTCTCTACCACATGAGATTTTATAGATT [A/C] TATTTTCTTATCTCTTTGGTGGTTCAACTTAGGTGTTTCTATTTTACTCTTTTTTAA
1973 CaSNP3984 GAATACAACCTAAAGGATGATAACATAAACTTTGAGTTAGTTTTTGGTAAATTTATAT [T/C] TGTGGTCCCTTAACTTAAATTCAGGTAACGTTTTAGTCATTTATCTTTTTTTCCCCGA
1974 CaSNP3985 CGACAGCTTCAAAGAGAAGAAGACGGATGATAATTGAAGACGATGATGAGAGACATCATG [A/G] TCATTAATTTATCCCAAATGTGATTATATATCAGCAGGAGGAGCCTTCTATAGTGCATGA
1975 CaSNP3986 AGAACTAAATCAGGAATTCATCAACCATAGTTCTGTAATCCAGTTAATATATAAATTC [A/T] AGCTCAAAAACATAATCAAGAGCAGTGTGTCAAAAACCCTACAGCAGCATTAGAG
1976 CaSNP3987 CAACTTCAATATTTTTTCCAAGAGAAACATGCGTGCCTTGACAACCTCATATTTGTATC [A/C] ACAGAAGTAAATCTCTTAAACTTTTTTCGATAGAATGTTGTGAGATTAGTTTAGATATG

1977	CaSNP3988	TGATATGGGCCACTTGGGGTGTATATTTAGCGCTACCATCCCCTCTTTATCTTAGCGA [T/C] GATAACAATATTTATCTGTTTTGAGAGCAACATCCCTTGAGCCAACCCAACTCCATAAC
1978	CaSNP3989	TGTGGATGATGAGAAGAAAAGATTGAATGAGTTGTTGAAGGAAGCCGGTAAAGTTCTGAAG [T/C] AGAAAAGCCAGGTCACTAGAGAACCTTCTTGACGGCAATGCTCACAATTTAAACAACCTT
1979	CaSNP3990	AATGGTGCATCAATAGGGTACTTATTTCCCTTTTCGTCCTTGCTCACAACCTACCAATCTG [A/G] TAATTAATTTGGAGGTTGTTTTCCCTCTTTGGGCCCTTAGCTTGACTTGTGGGCTTGACC
1980	CaSNP3991	TCTTACCGACATTCCCCAACACCTCAATATGGTTGGCTGCTCTCTAATTCTATCACAACA [A/G] TAACCCTCTGACATGCCCTGTATATACAAACATAAAAATACATTATTAACAACATCAATGT
1981	CaSNP3992	ACTTCAGGTTTCTGGCCGACAGATGATGATCAATAATAATGACAATTTGGCTGGGAAAT [C/G] AATCACACTGATTATCTAAATGATTGCAAAGGTGTAGTTTATTCATATCTTTCCAAAAA
1982	CaSNP3993	CAAACTGGATACATGACTGGACACATCTCCTCATCAATTTGCAACCTCACACAACCTCTC [T/C] AGCATTACCATCTCAGACTGGAAGGGCATTTCGGGAAATATACCTGAATGCATCACAACC
1983	CaSNP3994	TTGTCAAAAAGATTTGGTAAATCCGCATTCCAAACTAGTGAAAGCCACCTATGATATA [T/C] TGTCTCTAATGGTTCAAACAATGAACTACCACGACTAATTCTGCCTCTACTATAGCAAAC
1984	CaSNP3995	ATCACCGTACAAGGCCATAACTTACATGTACCAGTATTATTATTACCAGTGGCAGGCGCA [A/G] ATATTATTCTGGGTGCATCTGGCTGGCTACACTAGGTCCCTCACATAGTAGACTACGCAG
1985	CaSNP3996	ATCGCCTCTAACAACGTCTCTGTCTCCTCAATCGCGTCTCATTCTCTCTATACGATTG [T/C] GCATATCTTCTCGTCTTGACGTAATTTCTTACGTTCTTCGGTCCAGTTTTCATCTTCTC
1986	CaSNP3997	GAAAGTCTATGAATAGAGTTAGTGATTTACACGGCTTTGAGAATGCAAGATTTTAGAGTT [A/T] GAAGAACTAATTTGTAATTTTATTTTTTCTACATATAATCTTGTGCATAGGC
1987	CaSNP3998	TCCTCCCCTCTTCCAATGTATTCTCTAAACACAAGTCAAGCACCACCACATCTCCAAA [T/G] AAATCTCATAAAACCTAATCAGTCAACCATCCATTTAAACAAAGATCAATGAGAATCATG
1988	CaSNP3999	TCCACCAAGTCCCAAAGTTCAGGATCTTGTGAAATAAACAACTTCTCAGCCTGTCTTTC [T/C] AGTACTCAAATGTCTCCATCAAACAGAGGTGGATAGTTGATGTTTCTTTCAGTAGCTT
1989	CaSNP4000	TATCGATTGGTGTATGTTCTGAACACCACAAGACCGCTGGAGAAGGAAATGGAAACATTA [A/G] CAGAAACAAGAGAAAGGCAGAAGTGGGACAATGATGACTATATATGCATGAGCCATATTC
1990	CaSNP4001	AACATACTTCGATGAATCATCTGATAAATCTGACGATGACATTGATGTTGACGAAGATAT [A/G] GAAGCGGAAGATCAACTTATCCTACCTGATTTTCGATCCACCATCTCACCTGAAGAGCATC
1991	CaSNP4002	CAATTTTGGGATAATTTATTCATCTCCATGCTCATACCCATTTGTACGGGTTTTTACCCTA [T/C] TTATTATTGAGTTTTTTTTTGGGATACCCACTGAATCTGATTCTGATTGCAATCCTTACA
1992	CaSNP4003	AACATAATAGCCAGATTAAGAGGGGTACAATAAATCTGTCTTCAAGACATGCTTCCCTT [T/C] GTTGGTGTATCTTATCAGTTCCCTTAAGCTTTTGATATTTGTCAATGTTCTCTTAAT
1993	CaSNP4004	AGAATGTTGAAAAAATATAGCTCTATACTCCAATATAAAAACAAACCTGTGAAAAGACAA [A/T] CATTAATAAATAAATAATTACATAGAGAAAAATGACAATGAGATTTTTATATTAGTTTCT
1994	CaSNP4005	CCTTCTCTCTATTTTCAACAACCTCAACATCGTGGGCTGAGTATGCGTACATGAAC [A/T] GTTTGCGTAAGTGTAGTTTGGTGTAGGAACATATATGAACGAATTTGCGTAAGTGAACGA
1995	CaSNP4006	AGATTGGAATTTTTCTGTAAATTTGGATCAGAATTAGATGGTACAATATTTGGAGAAAT [A/T] GGATAAGAGTTTAGACTCACTTGAGTTGGTAATGAGGATTTCTCCGCAACCATGTTCCCA
1996	CaSNP4007	TGTAGACTGCTTCTGTAGTGGGAGCACAGCTGTGACTATAGTGAAGCAGTACTAAGATG [C/G] AGAAGCATGTACACTCTTGTCTTCTATTCTCTTTGCAGTTTTATTAATTTCATATCTTAC
1997	CaSNP4008	AAATCGTGCTGATCTGTGATAGGTGGAACCTCGGTAATTAGTACTGTTCTGTGAGAGACG [A/G] TACATTTATGATTTACGCCATTCGAAGAAGGTGTAGAAATTCGGGAATCATGTGCACTGG
1998	CaSNP4009	AACTCAGATTAAGTACAGAGCAACGATAAAGAAGAGAAAAATCATATTTTGATACTAGTTC [A/T] CAATAAACTGTTGTACATCTAGTCTCCACTTACTAAATAGATTTTGTCTCAGCACAGT
1999	CaSNP4010	TGACAGGTGGTGGTGAACCTTTGGTCAACGTGGCCTTATGTAGTAAAGGATATGTACAA [T/C] TTTTTTATCAACATTGACGTTCAATGAGGTGTATCCATCATATCCTTATGTGTGGAATA
2000	CaSNP4011	GCCACCGTAGGAGATTGGGATACTTTGGTTGGGCTGGGGACTGGCGGGATGGATAAGGGG [T/C] CGATGCTTGTGGGAAGAGATATGGAAGGATCGTCTAGCGGAGTCGAGCCAGAGCTTCCAC
2001	CaSNP4012	CACACTCATTTTTCTTTAATATTACAAATAGGCAAGCACAAAAGTTTAAATTTGGTTAATG [A/T] CTTGATAGAACAAGAGCAGAGAAAAAGGATTAGAATTATTAGCAGAGCAATTCGAATGAT
2002	CaSNP4013	ATAAGGAAATATAATATTATTGAGGAGCAATGTGTACTTGCATAAATTTGATACCTTAA [T/G] CATCATTAGGATATTTCAATGAAATTTAAAAATAATTTTACCCTTTTATTTAATAGATTT
2003	CaSNP4014	TTTACATTTCCCTTATGTAAATAATAAACTTGAAGTAGGAAAAGAAAAGAACGAAC [T/C] TGTGAGGTTGTTGGTTTTCACATCAGCTGATTTTGGTGTAGCTAATTCATGGTAATTAAT
2004	CaSNP4016	TAGACTGAGTAAACCCTGCCTTATTGAGAAGAAACCAGAAACCAGATTTCTCTTATTT [A/C] TGGAGTGTGCATGATATCCGTCAGAATTAAGGTCTTCCAGAGGTGAATATTAGTTCCAC
2005	CaSNP4017	GCATTTATTTCTTGATAAAATAAGCTTACCTACAATTATCCATTTGTTTAAAGTCCATTT [A/G] AGCCTAATTTATCTTTCTTGTATATAGCTCATTACAAGCCTAAAAGTGAAAAACAATG
2006	CaSNP4018	TTTCTTTAAAAGAGTTTGCCTTAGGATTTACAAGCTTCCAGAACCTATCTTTATATCCC [T/C] CTCTGAATTTGTCTATCAATTTTTGTTACTGTAATTTTAGAGATAATGCTTATGAGATAG

2007	CaSNP4019	TATTGTAAAAATAAATGGATAAAGATAACACATAAATAGAAACCATAAAATAATGTATG [A/G] AGTGTTTAGTCTAGCAAAGAGACTAATTTTATATGTGTTTAAATTTTGATTCCGAGAAA
2008	CaSNP4020	TCTCCTCTCCGGTTCAGCTTCATGTTGTACTGCTTTGTTGGAGGCTTATAGTAAGTTTA [A/T] TACGGTTTATTTTATGTATAACCATACATATGCTTTTAAAGAACATTAGTATTTGTTAGT
2009	CaSNP4021	AACATAACCTCTCCAGGGTAGGTACTAGTTAGAAGCCCCTGACCAAGTGTACTGTTAAAA [T/G] CAAAAACAAGGATATTAGCCTTGTAATAATTTGGGAACATATAGCAATGTCAAAATGTAC
2010	CaSNP4022	AGACTATTGAGTGATTGAATAATTGAACAGCTACCAAATATGAAATGACTACCAAATATG [C/G] AATGCTACCGAATATGGAACAACACTACTGAATATGAAATGCTTACTGAGTAATTGCTTAAT
2011	CaSNP4023	ATAAAGTGAATAAAGATATTTATATTAGCTTTACAATGAAAATGAGCTCTGAGTTTCGGC [T/C] GTTAGAGTTAAGTGTGCTCAAGAGTGTATGATTTTTATTTTCAACCAAAATCTTGAG
2012	CaSNP4024	TTACTTTCGCAGCTTTAAGGAAAGGCATCAGCAGGATGTGTATTTCTAGACATATCTAG [T/G] GGGAAATAGTCTTGCAACTTTTTTCATTTCCAAATCAATATCCTGGTAACACTAATATAAC
2013	CaSNP4025	CTTACTGTTATGCACCTACAGTACAAATATAACTGCAAATCTTTTCTTTTCCACATAGC [T/G] ATATGGTGTGATCACTTCAAGTTATAAGTTTCAGCATAACGAGACAAAAATACCTATATT
2014	CaSNP4026	ATCTGTAGGCCACTTAGAGTTATAAAGAGGGTGAAAAAGAAGTGTCTTCTCCAGCTTG [A/G] GAGCCATAGCCTTCCTAGTAAGTATACTTTTAAACGATATCTTTTCTTAAAGCGACAGTG
2015	CaSNP4027	CCAATAGTGGCTTTCGTGTTCCCTCAGGCAATCTGTAGGTTTTCATGTTATGTTGAGAAGA [T/C] TGACTTGTAGGGTCGGGTGTTATGTAATCAAGTTTTGAATTAATGGATTAAATCCTTTT
2016	CaSNP4028	GATGTTCAATTCAGATGTATAATACCACCTTCTCCACTTTCCCTTCTTTCACATGCCAGC [A/C] ATATATTACCGTTGTTGAGACAAAAACAGAAATAACAAAAGAGCACATTTTTTTGTCA
2017	CaSNP4029	CATTCTTGGCACATAACAACATCACATATGAAAGACTATTTCCATCTCTCCTTTGAAT [C/G] AACACATTTCTACTATTTATGCAGTTACTTTGCTATTATTTGCAAAATATGATTTCCCTT
2018	CaSNP4030	ACTAATATAAAAAAGACATTTTAAATTAACAAAATCTTGTTAATAATGATGAATTAAT [A/G] ATGACAGAGGGTATTTTGCAGGAATTTATTAATTTTACGCTTCATTACATTGCTGACTTG
2019	CaSNP4031	GAGAGAGAGAATGAATGAATGATGTTAAGGCCTTGCATATTATGTTTCTGATGTCATAC [A/G] AATGGTTTTGGTTTTTAAATTTTGTTAACATAAATATGAATATAAATCATGCAATTGTTG
2020	CaSNP4032	ATTTGTTTCTATTTTTTGCTTTACAAATTCAAATTGATTTCTATTTTGAAGGATGGGATT [A/T] TTAGAAAACTAAGAGTGAGGGAAGAAGTACTAGGAGTTTGTAGCAAGTAGAAAAATGTTTGAAT
2021	CaSNP4034	CCTTCACCACCACCATAGATTCCCAAACAAAATATGCTACTTTCATCACAATCTTCTGAA [T/C] CCTCAAATCCCCAAAACCTCAATAATCCCCTTCCAAAGTGAGTTAATCCAAATCCACTC
2022	CaSNP4035	TAATGAGCTGGCCATTCAATCTCCCAATTATATAAGCAAACAAATAAACAGAAGTTTTTT [A/C] TAGCATTACTTCATTTTGTAGCGACTAGTTCTTCAAATACCAAAGTATGCAAAGCAAT
2023	CaSNP4036	ACAACCAACTAAATCCACTATCTAAACTCAACAATCATCCCACATGATCATTATAAGTT [A/T] AAATCTTTTATATCCCTAGAAAACCCCTAGTATGGCATTGTAACAATTTGTGAAATCAAA
2024	CaSNP4037	TGTGACTTGTGATAATGGTAACTGAACGGTACTTGTGTTTGTCTTGGAGTTGACTAAAG [T/C] CATAGGGGAAAAATAGTTCCTTATTTGGTTATTTGTAGTTGGTAGAAGAAAATGATGTTT
2025	CaSNP4038	TTATTATTTTTTCTTCTCTCTCGTTTTCTACTTCAAGCATGTCGACCGGAAGAAAAGC [T/C] GTGGTCGCCAAAAGATCGAGATGAAAAGATGAGCAATGAGAACAACCTGCAAGTGACAT
2026	CaSNP4039	AATGCATCTGCTCTTCTTTCTCTCCGGAGATCCATGGCCACTTTCACACGAACGTAATTC [A/G] TTCATTCATTCAATACCCTCACTTCATTTATCATCCTACATTGCTCGTGATGCATGCTTA
2027	CaSNP4040	GCGACTTCAACTGGTACTAGAGCTCTGCGTCTAAGGTTAATCACCTTACAAGTGTAAAG [T/G] AAAATATTCACGAAGCAATGTCAAAAGTCAAGTATATTGTTGAAGGAGGATCATCAAATA
2028	CaSNP4041	ATCAAGTTAGTGGCAAACCTCACTCTTTTGTATTGCACTACATTTTGTATTTGAATA [T/C] GATGTTGAAATTTTGAATAAAAACCTAATGTTACAGAGGTGTATTCGACTATACACAAGT
2029	CaSNP4042	CTGGTGAGGAAGGTTTATCCCGTGCCAATCCCACAAGTTCTATATTACAATTAAAAAACA [C/G] TGTTTATTGATATTTTTCTTTATTTGCTTCAATATTTTAAATTTATTTAAATTTGGTTAA
2030	CaSNP4043	AAAGTTTAGCATATATACCATGTTTTGTTCCAAGAGGTATAGTACCTTCTATGTAGTAT [T/G] TTAGTACTAAGTACCAACAACATGCATCCATTTGTGATTTAGTCACATCCAAGAAATAA
2031	CaSNP4044	ACATTAGTCACAATTTCCAAGGATTTGAAACAAGAAGGAAGTTTCTCATTCATAATAGA [A/T] CAAGAGGATAATAATAATGTATTCTACCAATCATATTATAGAAGTTTACCTAACAAAGTGC
2032	CaSNP4045	ATCAACCTAGTCTGGAGATTCATTTTGTGTTGGGAATCTATGGGCATTGAATATATGG [A/G] TCATCTCATTTTACTGTGTTGCTCATCCACTTCTTTATTTGTGATACATAAACCTCAA
2033	CaSNP4046	AAATTAAGAAGATATAAATGGTCTATAATAGTACTTTCGTTTTGTTAAATGATAAA [C/G] TAGAATATTTATTTAAAGGTGTAATGCATAGAATTTTTTAGATCCACCTATGTACAATG
2034	CaSNP4048	GGAGGATTGAAGCATTCTTTATCTTTCCGGTTTTGAAGCGCATTATGGCATAATGAGTGC [T/C] TTTGGAGACGTGGGTGATTACATGTTTCTTTGGTGGAGTTTCGATTGTTGGATTCTT
2035	CaSNP4049	AGTGTTTACTTTTTTATCAGAGTGTGTCTTTCCAAAGAGTTGATTTCCATCAGAGTTA [C/G] ACGATCAATGCATTGTTATACTTATAAATGGTATACAATCAAAGAATGATCATGATTATC
2036	CaSNP4050	ACTAGTTGGTCGTCGTTCAACTGCTCCTCCAGCTCTTAAAGGACTTTACATATATGGCAG [T/G] GTGGGAGTGGTATTATCTACTTTTTATTTTTCTTTTGTGGCTAATTTATATTGTCCATC

2037 CaSNP4051 ACAATGTCATGTGATGTATGCCTTTGTATACAGCTCAAGAAAGGCTATTATTATTAATGA [A/G] AATATTTTCTTATAGAAATGGATAACACATAACAGCTGGGTTGTAAAACGTACCCAACC
2038 CaSNP4052 CCTCAACAACACACATATATGAATGAAATTCCTTTTCCACAAAACACTCATCAATATCTC [T/C] AAAACCGAATCCAAAATTTCCACCATAAAAAGCATTTAATTCATTTTCCCTCAAATCTACA
2039 CaSNP4053 ATATAGTTTGTGTGATAGCATGAAATTAATTGATCTTGCATTATTTATGAATCATTTCCG [T/G] TTCCAAACTAGTCATGCATACAAATTAATTTCTCTACAAATATCATATATATATATAT
2040 CaSNP4054 GTTGATGTTATCATAACCGGAGAATGATGTTAATCATTTTGAGACAATTGTTAATCATGC [A/T] AGAGAAAAGTGTGTTGCTGCTGAAGATTATGTGTAACATGCTGGAGAATGTTTATAAATCT
2041 CaSNP4055 TGTCACAATCTCATACCAACCCAAGCAACCAATTTCTCATTTGCAGGAAGTGAAGGTC [A/G] GGAGGAGGTGAAGGAGAGCTCAGAATGGATAACTTCTTCTTACATGGCTCCGGAGCATG
2042 CaSNP4056 CTGAATTACGAAATGAGAACATGTCCATGAGTACAATGTGATATACGACTTGCATTTTGT [A/G] GGTGAATATAAATCAAATTTATGAGTATCGAGATTATTAAGAATTTAGATGGATACAATTA
2043 CaSNP4057 ATGATCTATGATGGCGATGACTGATAATAGTGACGGTGATCAAAGATAGATGATCCATGG [T/C] GATGTAAATGATTATGAAACATGTTAAAGTCTACTAATAGTGATATGTTAATTTTAAAA
2044 CaSNP4058 TCATTTGGCCACTTCTTTGTCTCTCTATCAAGCTAACAATGAGATTGAGGAAAAGGTTAAT [T/C] TGTTAAATTAAGTTTCTGTATAGTTGATAACTTGATACAGTCCAGGCAATTTTCCCATG
2045 CaSNP4060 CCCTCCATTTTCGTTCCAAATAAATACTGTGTTAATGTCAAACGCTACTTGGACTTATTAC [A/G] GGCTGTTGTTTGGATTAGTTTATTTGAGTTTATCCATTGACATAACTCATATGCACTTGT
2046 CaSNP4061 AGCTGCCAAGTATTTGTTCCAGCTTACGATGAACTGACTCGTTCTTAAGAAAAGAAAAGCT [T/C] GTGTCAACAATCATCAACTAATTTTAAATTAAGACAATTTTATCTCTTAGGATCTGTTT
2047 CaSNP4062 CGTTTGAGAGGTAACAACAATCCAACAGTTCTACTAAGCACGTGGCTTCCAGGTATGTT [A/G] GGTATATTGATTGTATGCACTGGAAATGGAAAATTTGCTGATTGCTTGAAGTGCCAG
2048 CaSNP4063 AAATCAGTCGATTGGCAAATCGACTTTGTTGAGTGTCTGAGTAACAGGGAGAAATTAGCC [A/C] ATTGCCAAATCGATTATGTAGTGAATAAATGAATCGACTGAGTAATCGATTGCTTGATCTC
2049 CaSNP4064 ATTTATATCTAATGACCTTAGAACCATTGGAGTACACAACAATGTGATGTGCCATATG [A/G] AACCATATTAGTACTCTTGTATATAAACTTCATGATTTACTTAAATATTATTCTTCAA
2050 CaSNP4065 CCACCTAACTTGAAAGGAAAATTTAACTAAATATAAATTACAAGTCTTCAGGCCATGTA [A/G] GGATCGTAGTACTTCAATTCAAAGGACTACTCACTATGGTCGAATGAGAATATCTAATG
2051 CaSNP4066 TTGTTCAAGTAAGAAGAAGTCAAAAACCTCTTCAAGGAACTCCAGCTCCCTTCACTATAT [T/C] TGTGGATCATCATTTACTGAGTTTATCTTTATTTATCTTAAACAAGTGTGAGAAGTTTC
2052 CaSNP4067 GTGGTGGTATATTTTGGAAATCGAAGAAAGAGATGATACTGGCTACGCTACTATGGAGT [T/C] TGAATGATAACACTAGCTACTACTAGTGAAGAAGTGAGCTAATGAGATGTTTGTACT
2053 CaSNP4068 CAAACAACACAATAACTTAGTTAATTTACAATAATGATTTGACTGTAATCAAGAGGGTA [T/C] AACAGTTGATGCTTCTTGTACAATGATAACAATTTAATATAATTTCAAGTACAATAGAG
2054 CaSNP4069 TTGTCAACATCTTCTAATGAGTGTATTTGGTTCATCAACTCTTTAGTTTGTAAACAT [A/C] ATAAGTACTTATTGTTGATGTTGACTACTTCTTCTCATGTCCAACATGAAATTTGACTAC
2055 CaSNP4070 GAAATATTTATCAAATTTGATGGTGTGGAAGTGGTAGTGAAGAGGAGGAGAACCCTAG [A/G] GAGAGAGGTGCGTTTGGCCGAGCCGGGGTCTGGCCGTTGGTAGAGCCGGGGTAGAGGA
2056 CaSNP4071 TGCATTATTATCATTCTTTTCCCTTTACAAATTATTATATCAACCTATGTAGTTAATT [T/C] CAAATAGTGGTACGTCGTGATCGACCTCAAAAATAGAATAATGGTTTACGAGTTATCGG
2057 CaSNP4072 AAGAAAGTGTGTTGGGAGATTCCACACCACTAACGTTGCTGGTATTGGAGATGTGGAG [T/C] TGATATTACCTCCGGAAAGACCTTAATTTCTGAAGGATGTGATGCACACTCCAGAAATAA
2058 CaSNP4073 TTAAGTTCTCTCATCATGCTCATTTGAAATTTAAGCTACATCGACTTAGCAAATCTTGA [A/C] AAAAAGTGTATTAGTAGATCCAAAATAATGTATCAACATATATTTGAATAATCATAA
2059 CaSNP4074 TCCTGAAAAGGCCCTGAAGTTTTTAAAGGTGAAGCTATGCATTCTATGGATTATTCTGC [T/C] TTGGACAATGACGTTGCTGCTAAGTTGATAAAAAGACAAGAGTGTACAATAGTAGGCTCC
2060 CaSNP4075 TTCCAAATCACTGTCTTCTTCACTATCATCAACCAGCAGCCGACTCTTTTAGCAGCAGC [T/C] GCATCGCCTTCTGAAAATTTATATGGCCAATACACACAATAAGAAGAAACCACTTGAA
2061 CaSNP4076 AAATTAGTAGGTATACCGGAAAAATTTATACCGACATTATTTTATATGTTGTTTATAG [T/G] TAACACATGTCTACAGTTTTTTTTTACAGTCATTATAACCTACGGTAAGGAACGTTTGT
2062 CaSNP4077 ATTAGCAACTATTTGTAATCTTCAATCCTACATAGAATCTTCAACCTAGTTAACCACATC [T/C] CTAAGAAAAGCCCTAATCTAAAAGTAAAGCTTAAGTTTCAACAAAACATTAATAA
2063 CaSNP4078 TCAGGACAAAGGAAAAAAAAGGGAGATCAGAGAGGATATCTGCTAGCTGAAAGGCAGC [T/G] GGAAGACTGGCAAGGAAGGTGAGTCTAGTGTGAGGTCGCCTACCAGAAAGGTTGACA
2064 CaSNP4079 TTTTGGTGACATTTTTTGAATAAATACTAGAGAGAAAATGTCAAACAATATTCTGAA [T/C] ATTAATCCTTCATTTGGAGAATTCATGCTTCCGGTAAAAATAAATCAAGGTTAAATAT
2065 CaSNP4080 TGGTCGATCTTCACTATCTAATTTTCCAAATGTCATGCTTTTGTGATTCCAAAATCC [A/T] AAATATATTAGGTGAGCCTTATTCAGGACCCAGAGGAACATAGGTTTCAAACACACGCTA
2066 CaSNP4081 GAAGTACACTTTACACAATGAATGATACTTCAGAATATTTTCTGAACCTACAGATCTT [A/C] GTATTTCAAGCAAAAAGACATATCAAATCAATCTTAAATTTGACTATTTAAACTATGGAAA

2067 CaSNP4082 AAACACTCAATTTTTAATAGTTTTAACATTTGAGACACCTATATCTTCATAAATTTATGC [T/C] AGACTTTTCCATCACAATTTTGTGAAAGTTTTTGTAGCCCTTTGACCACCACAAAACT
2068 CaSNP4084 TCTATACATTAAGTCATCTTTTCAAATTTTCCGTTTCTAATATGCATAAATATTATATC [A/G] TACAATTGTAATTTATATGCTACACCAATTTACCTGAAATTTATTCAGATCACTTGCATTA
2069 CaSNP4085 ACTCTAATATAATATTAATATTTTTTTTTATAAATGTTCTAATTCATCTTAACAAAATCAA [A/T] TTGTAAGAGTGAAGAATGTTACTATTTATATAAACTCTTTTTAACTTTATTTATTTCAAT
2070 CaSNP4086 GATGACCAGCTTAATTATATTGATATTTTTGTCAATTATCATCTATTCCCTAATGCACAAAG [A/T] CTTGCATCTGACTTTGAATATCAAGTCATAAATAGACTTTTGGTTATTTAAACTATCTTA
2071 CaSNP4087 AAATAAATTCATTTCAAGTCGAGAAATAGTGGGGTAGTGAACCTAGTCAAGTTCCTGT [T/G] ACAAGAAGCACTTAAAGCAACAACAAGTCGAAACAAAACTCAAAGGACTAAGAGAATA
2072 CaSNP4088 TTGTCTCTACGTCAAGGAAGGACTAGTCCGTAAAGCTAGATGATGCACCTTGAGCCTACT [A/G] TACAACATAGAAGACTCCTATTGGTATGACTCCTTACAAGTTGATCTATGGAAAGTCTTA
2073 CaSNP4089 TTCCTAATATATATAGGCCGTGTTGGATGATTTATTTGAGTTTATCTACTGTCTAGCACT [T/C] GTGAGACTTTTTGAGAGATTTATTTAAACAATTTATGACATGTCCATAAGCTGTTTTAAT
2074 CaSNP4090 GGAAGATGGTTCTTTTACTGCTGTCCATAATCTGTTACACACCTCATTTCTACCATA [T/C] GCTCCAAAGATTGGCCAGGATGTTAATGTGATGTACCATATGATATGATATTTATCTGAA
2075 CaSNP4091 ACCCTCAAGTCACTATCATTACACTCTGGGAATCATAACCTAACATCTTTAATATATCAT [T/G] TCATATTTTGGAGTTTTCTATTTTTTGGTCTCAAATAGGATCTACTTTTGCAAAAT
2076 CaSNP4092 GTAATTCAGACAGAAAAATGAAAGTGACCAATCTCATATGCCACAATCAATCATCATT [A/T] GGAATTATAGAACTCAAGCAAGGAAATCTCCATGTTGAATTTCAAATGGAATATGTGG
2077 CaSNP4093 ATAAGTTTTAGAATTATCAAGTAGTATAATTTGTGTTATGCAACTCATGGATTAATGA [T/C] GTCGTTTCTAGTCAACCTTTTGATAATAATCTTATTTTATTAATTTATTTATGAGTTTTA
2078 CaSNP4094 AGATGCATAACCCTTCAAATTTAAATCTCTCATGCATTGTGAACACAACAGTATTTAATT [A/T] TAGGTCAGTGAATGGTCATCTCATTACATTTTCAATAATTTAGAGAGGTTATGCATG
2079 CaSNP4095 TGGGTTTCCACTCTCCACCTAAACCCTTTCTAAATAGGTTTCCATTCTCCACCTAATA [T/C] CCACTTTCCAAATGTGTCTCCACTCGCCACATAACATCAAATTTGATTTTGAATAGATTC
2080 CaSNP4096 GTCCTTCAAGGCAAGCTTCAGCGTTACGCACAGCTATTGGAAATTTAGTGCCATTTGAAG [A/G] GATAGTATTGATTGACTTTCCAATAATAGTCTTTCCATTTCCAAGGATGAGTTTATCAAT
2081 CaSNP4098 CTTCTTAGACTCCTAAGAATTTCTTCACATGATCAATAATAGTATAACTCTTCTCAAGT [A/T] TCTTTAATCATGAGACCATGGTCTGGAATCTGGAAAACATGTTTTCGATTTCTTCATCTT
2082 CaSNP4099 ATACTTCTCTTTTTACTCTGTCAAATTTGATATAATGATTTGGCATATAGAGAGTAACG [A/G] CATTATTCGATTTATAGTGCATGAAATTTGCATAACTGATTTTAAATAGGTAGAATC
2083 CaSNP4100 AATATCACTTTGACTATCGACAAATAATACATATTTGTGAGAATAAACTCAAACCTCTGC [A/G] ATAATTTTCATCAACCAATCAACTATTTGCATGTTTCGGTAATGACAATGAACCTCTGCCT
2084 CaSNP4101 ATTTGATCATTTGGCTCTGATACAAGTCAATGCTTTGACATAAAGTCAACACTCTAATAC [A/G] AGTTAATGCTTTGATATAAAGTTAACACTTTGATATGAGTCAATGCTCTGATAGAAGGTT
2085 CaSNP4103 GGTGTAACCAATAAGAAAACCTCAGGTTCTTTAGGTGGAATGACTTGAGGATTGATTCA [A/G] CAAACTTCCCATAGCCTAGTATCTAGTGGTCATTTCAAATTTTGTAGAATGAACATTAT
2086 CaSNP4104 CCTTGGTTGCCAATGGAATTATATAATGCTGATTTTCTGAATCATATAGGGAATGCTTTC [A/G] GATCTATGCTCAAATTTGATAGATTAACGTCCCTACATTTCCAGAGAAAAATTCACCGGAA
2087 CaSNP4105 CTCTCTTTGATCCATCAAATGCTTTAACTATCATAGAGCAAGGCTTTATATAGGATCAAT [T/C] AACATAGAGTTTTGATAGTGTGATTGCGACATAACTTTCAACGATAGACCAATGTCAA
2088 CaSNP4106 TGAGGATATAATTTATATTATATGTAATAAAAAATAAAACCTACAACCTAAGTGCTAAAC [A/G] TAGATGTTATCAAATCACATGTTTTGTAGACAAGCGTTCTTTTTCTATTCTGTGGAGTTA
2089 CaSNP4107 ATGACCAACTTAAACTTTTTAAATATATAAAATTAAGTCTGAAATAAATGTA [A/G] GGACTAAATATGAATTTAAGTCAAGGTATTAATTTCTCATTATATTTCCATTAAACAAC
2090 CaSNP4108 CTGCTTCCATTTGATCTGACAACCTAGGGGTACAACGCACAGAATCACAAGTACTTCTC [A/G] GAGATTCGACAGGTTGGACCAATGATAGACTCACAAAAAATAGAAATAAGTGAACAATA
2091 CaSNP4109 ATTTACAGTCTTGTCCATTTGAGGGTGAAGTACGACTACACTGCTATTTGTTCTTCTG [T/C] TGATGGCTAGTTTATGATGAGTAGGACTTATCAAACGATAGTAACACTGTACAACAATGTG
2092 CaSNP4110 AGATCATCCTGATGATGCACCAACATTAGCCTTGTGAGGGTACCAATCCATTATAAAA [T/G] GTATCCATTTTATTCAAATAGGTATCCCATGATGAAGACATTTTATAAGAAAATCCTTA
2093 CaSNP4111 TATCTTCTTGTCCAAAAGCCACCTTGTAATTTTATTGTTTTCATCATATGCTTTTATGATT [T/C] TTGGGATAGTTCAGTAGTAAGTGAATTTTCCAAAAGATTATGATTTCAATTGATGACAA
2094 CaSNP4112 TAGATGGTTGAATTTGAAGTAAATGCTTCACTCGGTGCGGTGATAACAAATCAATTGATT [A/C] AAACAATGTACTCATCTGTCAACGTTACTTACAATTTTAAATTTGCATTTGCATTGACA
2095 CaSNP4113 AATTATTTGTTAATTAGTTATAATAATGTCTTAATAGGATCATTAATAAAGTGCATTT [A/C] TACACACCAACTATAATCAATTTTTATTTATTTATTTATTTATTTGAACTCATTGTGAGAGTTTA
2096 CaSNP4114 CAAAGCATTTCCACCAATATTTCCATTTTTTTGCGCAACCACTCCCTACTCTCCAAC [A/G] GCCAACATACCACATATTTCCCTTAATTTCAAAGAAGGAAATTAATTCAGGAAATGATGA

2097 CaSNP4115 GCAGTTTTTCGAGGAAGTAGCATGTTCTTCGTAAGCAAAGGAATGACAATGAAACATGATG [C/G] TTTTCATTTCTTCTTCCAAGATACATCTTCTGAAAACCTCATTAGCCCCCTCTCTTAAAAA
2098 CaSNP4116 GTTCGAACCCAAATAAGACATTTCAACTTAAACAATATCAACAATTGGATTACATACACCTTC [A/T] TAACAACAGAGGCAATTAATAATGAACAACAAATTAGAATCAACAACCTCAATTGGAAAC
2099 CaSNP4117 ATATCAGGACGACAAATTTGGTGTGCGCTTTGAGTCTAATGGCCTTTATTATCTCTCAAAC [A/C] CATCAATAGTATGCCCTACCACATATTCTCCTCTTACTATACATGCTCAGTTAGGTCATC
2100 CaSNP4118 GTTGACTTTTATAGAGACATTGACTTTATCATAGGATGTATAAAATTTCAAAGTCAGACG [T/C] GTGATGAGATTATTAGAGGCAGAGGCAGTACATGCTCGTTACGCTTGTAGAGGTAGAG
2101 CaSNP4119 AATTTGCACATTGTATTTTCATGTATCCCAACTTAGGAAGTATATACATGATCTGAGTCAT [A/G] TAGTACAATCAGACATCGTTCAAATAAATAATAATCTTTCTTTCAAAGCTTTGCTGAAAA
2102 CaSNP4120 GGTGGTGAATACACCTCATAAAATCTTTGAATTGCTTGCTTATGATGGCACCATCCACCA [A/G] ACATCCTATACGAACTACTCCTCAACAAAATGGAGTTGTTGAAAGGAAACACTGTCATATT
2103 CaSNP4121 CTCTGATGAAAAATATTTCTTCATGCTCTGATGAACAATATTTCTACATGCTCTGCTAAA [T/C] AATATTTCTACATGCTCTAATGAATAGTAGTTAAGTATGCATTTGACGCTCAAAGCCAC
2104 CaSNP4122 GTTATAAGACTTATCGAACCATAAATGAAATATCTTCGCTGCCAGAAATTAATAACAGAA [T/C] AATATTACGACAGCAATTTACTACGAATCACTGATACAGACATCAACATAGACACGACAT
2105 CaSNP4123 CAATATAACATTTTTTCACTGATATCGCTAAGTCTTCGGTATCCACGACATTCACACCAT [C/G] TTTAGCAACCAAAGCTTTTGTCCAATATGATTTACTAATGTTCTCCTCTCTAGCCACAAC
2106 CaSNP4124 GATGAAGAAAGTCGTGAATTGTTACTTTAAAGAAGTATCGTAGTTAGAGTGTGGAATAAC [T/G] TTTAAGGATTAGAACGATGGATCTGTGTGTGATTTGATCTATCAAATCAAGTTTACTTTG
2107 CaSNP4125 AAAAAAATATGTTGTTTTTCATACATGTTTGTGGAGTGAGTGAATGAAATTAGAAGAA [T/G] AAAAAATATAGAATGAATACATATAAAAAATATATATAGGTCGGCTGTCAGGCCAATAG
2108 CaSNP4126 ATCTGTATGCTTTTACTGTCTTTCAAATGAGTTTCTGTTAGTTTAAATGGACTCATT [A/G] CTTCTATTTTAACTATTTAATGCGGTAAAGTTGTCGAAAATACTCAGTTTTCGAAAATG
2109 CaSNP4127 TTTTTCGTTCTTACTTTTTTTAGATGTATTGTTGATTTTTTCATAATTTCTTCTTAACAC [A/G] TTGTCTTTTTTCACTCTCTCATGCATCTATTAACCTAAGTGAGTTCTTCTTAACAGGGA
2110 CaSNP4128 ATGTGGTATGCTGCAAGAAGAATGTTGGTGGTAGTGCACGGTTGACGGTGGTTGACGGCA [A/G] TTAATGGGATAGTTGAAATGACGGTGTGACCTCTATTTATTGTTTTCTATTTTTTCTTT
2111 CaSNP4129 TTCATCTCTGCTGAAAGCTATTTTGTAACTGCTCGCAAAGCTGACTAATGCTAATAAGA [T/C] TGTGTTTTTAACTCTTCAACATATAAACAATCTTNNNNNNNNNNNNNNNNNNNNNNNN
2112 CaSNP4130 TAGCCGAGAGGGAGCAATTGCCATGGCAACCCCTTTGAACTGATCCCAACAACACTTCGCAC [A/G] TATTGACGAGCCATCGCAGCCACATTGTCTCGCATATGATTCTCAAAGTAAATGAAAT
2113 CaSNP4131 TGGTGACCGTGATGGTCCATTGATTGGTTCCTTGAGTTGATTGGTCCACCTTATCCTTAC [A/G] AGAGTTTTTAGAGTCGTGTAGGTTTTGTGATAGACTGCACCTAGTAAATAGTGTGATATG
2114 CaSNP4132 ACTAGTAATTGACTTTATATAAGTAAGAGATTCAAAGAGCCACACCATACTTCCAAC [A/C] ATTGTGCAATACATGAGATAAAAAATCCATGAGAAGAATCATTAACGTAACATATATAAAC
2115 CaSNP4133 TTAATTTTGTCTAAGTAATGCTACTAAGTTTCTTCTCTCAGCCGCTCTCCCAGATCTT [A/C] ATCCTAGGTTGTCTTCTACTTCTCCGATAGAGATGAATGCTTTTTTGATCAAATTTTTGT
2116 CaSNP4134 TCTTGATTATAAAATGCTTATCTTTACTCTAGATAATATTCTTAAGCATTAAACAAGTCCA [T/G] ACCTACTCAATCATCCAGCTAGTAATAACTTTGCATCAACTCAAATCTACTAAATACTCT
2117 CaSNP4135 TTTCTTAATACTGCATATTTAAACCTTCTCCTTCAAATCAGATTGTACTCCCATTTTC [T/C] TACACACAACATCCATGGCTTCTTTGTACAATGTACTTTCAAATAATTCTAGCTCATGGA
2118 CaSNP4136 ACGTTTGGATTTGCACCCACGTTTTGAAGTGTATAAAACCAATTTTATTCATCAGTCTA [T/C] CCGTAGATTGACCCAACCCATTCGTTTGCACACATTTTCTTGCAGAACATTCGGTTTTTG
2119 CaSNP4137 CTGTTCTTTGTTGAAATGGAGATTCTGGACGGCCATCAGCTTAAACGAGGAACCTAATG [A/G] AGGTGCATTGTTTTGCTTTTGGAGGAATATTTTATTGTTGCTGCCTAGGTTGCTGTTGTC
2120 CaSNP4139 ATCTTTCATTTACAATATAAACAATAAAAAAGTCTAGTTTATTTAATTTATGTCGATGT [T/C] CATTATTGATGTTCCATTCAACAAATCGTTAGTTTGGCCTCTTTTCAGTTACTTCTTATT
2121 CaSNP4140 ATGCTGTTGTGTGCTTGTGAACTGCATGTACTCTAAATGTGATTCTTGTCAATTGTAGTT [C/G] TTGAGGTGTTTTAAGTAGGGCTGGACAAACGGTAAAGTTTCAATAATCCAAACCAACTC
2122 CaSNP4141 CATTTAATCTGGACACTTAAATGGGTGTTTAGAAATGTTATTTATGGGAAATAATCCAT [T/C] GGTGCTGAACTGAAATATCGTATCTTAACTACCCTGTCCAGCTACACAAGATTTGGAAG
2123 CaSNP4142 ATTCTCTCAAGAGTGCCTTCACTTGGTTGGCAGATATATTGCTAGGCTTATCCCTCTCTT [T/C] TGACTCCATGAATTCATAGGTTTTACTAAAAAATCTACGCGACACGGTTGGCAGATAG
2124 CaSNP4143 CGTTATCACAAAACAATGAATTCAGTCAAATAAAGAGAAGATAAAATGAGGACAAA [T/C] AGTTATAAGAGAAACAATCAAGAATAAGAGGATACAAGACATAGGTTAACGATAAGAGG
2125 CaSNP4144 TTGTTTACATGACATATCAGAGTTAAATGGTATTTACATTCATCCAATAAATAATAC [A/G] AACTCATAATGAATATTGAAATAGGAAAAATAATCACATCAATAATAATCAGTTGTATAA
2126 CaSNP4145 AACCTCTCTAGACCTCTTTTATTATGATGCATCAACAGGAAACAAAAGTTAATATATG [A/G] ATTCCTCAAGACTACTTGTTCCTACTCATCTCTTGAGTTGAGTGTCTTTACTCTTCTCT

2127 CaSNP4146 CTTCAACTTCTCTCTCTCTATAATGTTTATATGTCTCTTGTAAATATCAATGTTATAC [A/G] GTGTCAAGTAGTTCATGGTGTGTTGTGTCAATAGTATTGCTTATTTATAGTAAAAAAGT
2128 CaSNP4147 TTAAGGTCCTTGAAATCCAATCCTGGAAAGGGGTTGTGCTTCAAGAAAACCAATGACAAA [A/G] AAGTCTCTATATTTACAGATGTTAATTGTGCAAGATCAATTTATGATAGAAAAACCACCA
2129 CaSNP4148 CAGTGACATATAACACTTGTGAGCTTGTGATACTAAATAAAAGATTGAGCTATGTACCG [T/C] ACTTTAATAAGGTCCATCTTCCCAAACCCACAATTATCAATTTGAACACCATTGTTGTTG
2130 CaSNP4149 GTCATTCTTGTGAAATATGAATTTTACTTACTATGCAAAGGTTCAAGTTGGAAGACATAT [T/C] TGTTTATGCAAAATCTTATAGAAGCGTTTGACGCTACTTCATTAACCTTTTTTTTTTAAT
2131 CaSNP4150 CATGTCTCTATTTTATTTTATTTTCAAGTTGCAGCAACACAAAATTAAGTTAGGACAA [T/C] AATTCAAACAAGCAACACAATTAGAAGTTTATGTTTCACAAAATAAAATGCATAAACAG
2132 CaSNP4151 TTGCATCCAACAACCTGACAAGATATATTCATCTCATACTTCTTTTTCTTTGAAACAGTAAG [A/G] TATAATTTACAGATAAAAAACAACCATGTTCAAAAAGAGATTGACCAAAATTTTCAGAGG
2133 CaSNP4152 TAAAAAATCCATGAAACATAAGAAATATGACATATCTCTGAGCAATTGGGTAATCACC [A/T] TTATTCAGTAGAAGAGTACTGCAACAAGAGGATACTAAAAACCAATTTCTCGTGAAAA
2134 CaSNP4153 GATCATTAATTTATTACTTTATAAAAATAAATGATGAATACTCTTTAATTTGTAATATA [T/C] GGTATTTTCATCATCACGATTTTTTAATTTGTAATATACGGTGTTCATCATCATGATTG
2135 CaSNP4154 CCTCGAAGAAATGCGAGAGATATTCAGATAGCTGAGCCAGAATGGAGGATCATTTTACT [A/G] AGATACTTCAATCCAGTTGGGGCCCATGAAAGTGGTAACTTGGTGAAGATCCCAGGGGA
2136 CaSNP4155 TTGTACATGTATTGTTTCAATAAGGCATTAGCCAAATCCTTCCATGAACGGATTGATTT [T/C] ACTCAAGATGCATATACCAACTTAATGATGCCCCACTCAAAGTCTTAAAAAATGAA
2137 CaSNP4156 TAATTTCTCTTCCAAATGAATCTGATTCCAAGTCAATGCTAGGAAGTGAGCAATGATG [T/C] ACTTTGTAATTTCTCTGTGAAACCAATCAAACCAATATAATCACATTTTCAATATTCAA
2138 CaSNP4157 CAAGTGTGTTGTCGAGAATACTCCAGGGGTATGAGCTATGTCTGATAGGTCTCATAGCCCC [A/G] GTGTATTTTGTGTTAAATACTTTGGATTTTTGTTTCAAAAACATTTTCGCTGCTTGT
2139 CaSNP4158 CACTAGACAAAGATGAGTCACACAAGATGGTTGATCAGAAAAACATTGGATGCATGATAG [T/G] TTATTTACTTTATTTAACTGCACCTTAGGCCTAATATCATGTTTAGTGTGTGTGCAGCCA
2140 CaSNP4159 ACACCGTTGATCTCAAGAAAGGAGAAGTCACCAAAGGTTTGTTTTTCTTTCTCTTTTCC [T/C] CTTTTCAATTCAAATTCATTGGTATGAATGAAATAGTTATATTTTACGTTTTATGTTTTG
2141 CaSNP4160 ACAATAAATAATAATTTTTAAAGCAAAATACTTGTGCTAGTCTTTTAACTTAAATTTCA [C/G] GTAACAATTCAGTTATTTTTTTTCTTATCGATTTGATCTTTTATTTAATTTTAAAGTAAC
2142 CaSNP4161 TGATCTTTTTGTTATTCCTCTAAACAATCTTGGTGGAGTAAGAAGTTTGTATGTAATTAG [A/G] GATAAGGTAAATTCCTTTGTAATTGGATTGTCTACAATACTCTCCATTTCTTTAGAAA
2143 CaSNP4162 CACGAACCTCTTTGAATTATGTGAAACAATGAAAGTGGAGGGTGTCTGAAAGAGGAAA [T/G] AGATTGAGATTATTTCCATTATCATTGAAAGATGATGTACGGAGTGACTTAAGTTCTTA
2144 CaSNP4163 TTTGGTAGGCTCTAATATCATATTACCTTTCTATATTGAGTCTAACTCATTTGACAAAAT [T/C] GAATTACAAGGTGTGGATCACTCCCTTATTAATAATGTTTCCAAACTATATCTCATCTAAT
2145 CaSNP4164 TTCGTCTTCTGTGCTTTGGCTATGACCTCCTATTATGGTTTTAGTCTCTCTTATCCTTT [T/C] CCCTTTTTCATCACAGTGGTTGCAATTTTCTCTCAAAATTTCTTTCTATTTTTTTTAAT
2146 CaSNP4165 CGAAGTTAGTTGTTTTTACTGACCATGCAACTTTGAAGTCTTGTGTAAGAAACAAGAAA [A/C] AAAACCGAGATTGATTGGTGGATGTTGTTACTCCAAGAATTTGATTTAGAGATTAAAGA
2147 CaSNP4167 TTTAGCTTGTCTGTCTTATTTCTGCAGCATCCATGGGCAGTGTGCAATTAATGTTTGA [T/C] GTTACTGCCCGGTAACATACAAGAATGTACCTACCTGGCATCGTGATCTTTGCCGGTTT
2148 CaSNP4168 ATATACTAAAATTTAATAATAATAATTCATGAATAAAATTTAATATATGAATTAGTTG [T/C] AATTACGTTCTCCAAAATATATCAAAATGTGATTTATAAACTCATATATAATAATTACT
2149 CaSNP4169 ATTGGTCAAGGTTCACTCTTGACTGATAGATGACACATGAGTTTTCTACCACACACCTC [T/C] CACCTAAACTTGACATCACAATCCTTATGAAAATACAATTTTGTCTTTTAACTTGAGA
2150 CaSNP4170 TTCTCGTTTACTTCACTCCCGGAAGAAATCGACCGTTTCTCTACATACTACTCCGACAA [A/C] AGGCTCATTATTCCTAAGTATGGTACTCTTGATTCCTTTTCTGCTTTTAAAGTTCTTGAG
2151 CaSNP4171 TATAACAAGGAACATGTGACACAATCTATTCACAAAAGAAAGAGCATTACAAATAGTT [A/G] ATTTCAAACCACTTTGAAAGAACCCTCCTCAACCAATAATCCTCTCAATCATTTTTTTAGT
2152 CaSNP4172 AGCTGCAGAAAAGGAGAAAGATCAACATAAACCAACAATGTTCTTGGTTTTCAGAAAGACA [A/G] CATACTCAACAAGACAAGACTAATGCAAAACCAATCTCAAGACAGCATACTCAACAAGAC
2153 CaSNP4173 ATAGATATGTGTA AAAAATTTTATTTGATTGATTGTGTTTGTGTAATAGTTTACAAGTATT [T/G] CAATTTATTGGCAATGTTAGTCCTAGTAGCCATAAGTCGTGGCTACATAAATATAGTT
2154 CaSNP4174 TTTACATAAGATAAATAAATGCTTGTAGTCAAAAAATTTGGACTGTTATCGTAATAGTG [A/C] TTGATACAAAAGAGATTA AAAATGCTTAAAGAAAGAAAGAACTCTTTTTATTTAGTAGAG
2155 CaSNP4175 GAAGTAGAGTCTAAGCTCATGCATAGCATTGCACTTTATTGTGATTGTTTTGTTGTGATT [A/T] GTATGATTGTGTGTGGTGATAATTTCTCTTAGACAATTTGTTGTTATAGTGAATTTAT
2156 CaSNP4176 TCATCAAATGGTAATAAAGCACATTAAGGATGTGTGCTTTTTGTTAATTTGTAGCCCC [C/G] ACAATAAGCAAAAGGTAGTATTTTTTTTTTCAATTTATTTTAAATTTAGTAGTA

2157 CaSNP4177 CATATCATCGTACTTAACAGTTGCATACATTTTTTTAAAAAAAACACTCAATATACTCAAG [T/C] TTATAACGAGGATCAAGAAAAACATCATCAAACAAAGAAAATTTTATCTCACCCTATCC
2158 CaSNP4178 GAAAAGTGTTCCTTTAATAGTTACATAAAATAAGAAAGTGATGTGCAAACAACCTCATGG [A/G] TTTGAAGATAATCAATTTTCATAATTATGTTTTTAAACTAAAGAAATTTTGTATGGTCTA
2159 CaSNP4180 TTTTTATTCTTTTGTACTTGCCAACTCTCTTTTGTGCGATTTTCAACACTTTCAGCAATTGC [A/G] CATAGACTCGGTGGTTGACCAGTATATTGATAAGGATTTCAATTTCTCTAGGGAGTAATCC
2160 CaSNP4182 GGTCTCAAGATTAAGGTAAGTACTTGAGAAGAGTTATACTACTACTGATCATGTGAAGAAAAT [T/C] CTTAGGAGTCTTCTAAGCAAATGGGGACCTAAGATAACAATTGTTCAATAAGTTAATGAT
2161 CaSNP4183 CCTATGCTATCTAGCTCATGTGTTCTCAGGTGCCCTGCTCAACTTTCTCTGCCACGTT [A/G] CACATTCACGAAGTGAATTTGATTGATGTTAAAAAGAAAGGATAAGGTAGGATGTGTTA
2162 CaSNP4184 TAACTGTCCATAATGTTCAATAGACCTTAATCATTTAAACTCGTGAGCTCCTCAACCTATA [T/C] TATACTGCAATTTTATTTAGCCAATTCTAGTAAACGTTGGACTTCTTGTTTTCTGCAACA
2163 CaSNP4185 TAAATTTTCCCCACATATATTACAATCAATGCTTTCTAATAATTGTTCTCATGATTTTTG [T/C] GTGTGTTCAATTTAACTTGTGTAGGGAAGGTATGTGGGCAGGTGAAATGACGACCGTGA
2164 CaSNP4186 AACACCTCGGAATGTGGCATAGGGGTTTCTGATGTGGTCGGCGCTCGAAAAAGGTAGCCG [A/G] AGAGAACTGCACGTACGGGTTTTGTGGTGGCGTGTGGGGCCACATGCAGAGAAGGTGGA
2165 CaSNP4187 TCATTATTTGTTTGTAAAATGTGACAAACACTTAGTGGGATTCATCCTTACTTCTTAAAA [A/T] TTTTACCCATGTCCACCTAAGGTAACCATCTACTATATCAAAGCCATATTTCTTTCCAAT
2166 CaSNP4188 GTAGCTCATATTTCAATGTTGCATCTAACTGAATCTAACCAAGATTCCAGTCTAGGTTTCG [A/G] TTGGATATACTCTTGACGACGTCAAGATGAGGCCAAATGATTATCATCATGTCTTATCTG
2167 CaSNP4189 GTTTCTTGCACTAAATCAAGATAATCGTGATCAATTTTAACTTCACTGTGGAGAATTTGTA [A/G] GGTGCTGAACTTTACATCTTTAATTTATTTCACTTGCCTGTCATGTGAAGTGGTTTGCAT
2168 CaSNP4190 ACAAAGGTTATCATCAGCACACAACAACCCTGCAAGTTAAGAGAAGCATTAGGAA [T/C] TCATGAGCAAGACTATAATATGCACGACTAAAAATATTCCTCATATTCTGAGTAGTTACA
2169 CaSNP4191 ATATATGAAGCAGTGATCATATAGCAGACTAACAGCACATAAAAAACAGTTAGTTTATAT [C/G] CCAGTGATATTTGTACTGCACTTCTGATTGAAAGAGTGTGTTAGTGTCCGCCATGTGTCA
2170 CaSNP4192 ACTAGATGGTAGTGTAAAACAGTTTTACACTAACAATGTATATCCTTTAAATCCTTAGTT [T/C] ATTTATATGGTTTTGTTTTGATCAATTAATTTATATGATAAAAAATGGTTTTTTATGTTT
2171 CaSNP4193 GAATTTATTTATAAGAAGTTTTGATCAATATTTATCACAAGAAGATATGATTTATTTACAA [A/G] AAGATTTGAACCAGATTTATCACAAGAAGATATGATCAAGAATGTTTACAAGAAGAAAC
2172 CaSNP4194 TTTCTCAAACACAAAATTGATTAGAATAATAATAACTTAGGTTCAAACCTTTTAGTGTTT [T/C] CTTTCATTTGGTGGTGGAGGTGGAGCACACACAATAGCAACCAGAAAGACTACAACTGC
2173 CaSNP4195 ATTAAAGTTTCAATTTGGGCTTTTGATCCAACATAAAAAATGTAATTATGATTTCTTAGCT [T/G] TCCAGCGCCTGTTTGACCGTGTCAATCGGATATTCAGAGCTCAAGTTATGGCCTATAGAG
2174 CaSNP4196 AAACAGAGGCGGATCGGGTTTTCTCCGACTAATTGATTATGTTATACACATGCTCAATG [T/C] TGTCAAATAGCGACTATAGCGTTATAGCATAATGAAATTTGGAACAAATGCTATGTTCC
2175 CaSNP4198 CGATCATAAACTATATTTTTCTCTTTAACAATCTTTATGGTTTCTTTAATAACAATTCA [A/C] ACTTGAATTGCTCAAGTATCTCCCAAATATCTTATTATATAAGTTATTTTCATATGTAT
2176 CaSNP4199 AAGAAAATGCATGTGATTTCTCTGTCAATTCATATATTTTTCAAGTTCTCTACTTAAAAG [C/G] TAAGTGCAGAGAAGTCAAGGATTTTCTATTTGTAAAATATGTCATGGAGTGTCAACAAC
2177 CaSNP4201 AGTATGAATTGACTTATCAAGTATGCAGTCTTGAAATTTGACAGTTTTAAGGTACTTATG [A/G] GAGTTACAAATGATTATTTCTCATAGAAAACGTTTTTCATTGGTCTAGCTTTATCATAC
2178 CaSNP4202 ATGTTGAGCAAAAAGAACGGTATAAGATGCATCATAAAGCTATAGCCTTAATGATAAATT [A/C] AATCAGTCCATAGAGTTTGATAAGTGCACCAACAAGAAACATGTAAGAGTATCTTTGA
2179 CaSNP4203 CTTTGCATTGCATCTAGCTATTAAGCCTACAGCTAGAGAGTGTACTTTCATTGTTTAAACA [T/C] AATATCTTGCAAAATGAAATGATATTTTCTTGAGTATAAAAAATCTGTGGTTCTTCTCCA
2180 CaSNP4204 GTTTAAAAGTTTCATTAGTACCCTTCTATGTGGTTCAGAATTAATAACAAGGAGAACAC [A/C] TATATCTTGAAGAGGTTGGTTTAGCTTATCCACCACCTTATATTCACCTTGTCTGATA
2181 CaSNP4205 TAACATCACTACCATAAATCACACATCATCATATCCATAAACTCATCAAAATTTATA [A/G] CATCAATATCATCAATCATACCTCATCACATAAATTTATACAAATTTATAAAATTTACAA
2182 CaSNP4207 AAAAAGTAATTATGGTAATGTTTTTCTTAGCGCAACCACATACAAAAATATGGATTAA [T/C] CCTACAAAATGTCACGCCTAACTAGATTGCTTTTAGTGGCCAATCTCTTGTTCATAAACT
2183 CaSNP4208 CACCAAGACTTTATTCTCAAATTTACGATTTAATTTTTCTTGGATTTACAAATCTCTTC [A/G] TTGCTAGAACTTACCATAAAGATATCGTCCACATATAAAGTAGATAGAGAATGACTTTC
2184 CaSNP4209 GAAGAGATTAAGTGTGAGTCTTTTCAAATGAAGTTTTTGGACACATACTTTTGTAGT [A/G] CTAGAACAAAGTTAGGAGATGATCTTATGAAGTCCGCCAAGGTAGTATGACTGTGGGAG
2185 CaSNP4210 TATCCATAACGAATCTCAACACTCATCAAAAGAAAACAACAAGATGCATTATAAAGGCA [A/G] AACTTTCATGATGAAGACAAAGCAACAACATTTTCATACTTTTTCTTTAAAAAGTTAA
2186 CaSNP4211 GCCTTCTAGACCTCCTTTTAGTGTGTTTTCAACCAGATTGTAGATCGGGCCATTTCTCG [T/C] TTCGCTTTGGGGTTCACTTTTTGATCAGAGCACTTTTGTGTTGGGTCATTTGAAGCTC

2187 CaSNP4212 GGTTCATTATCTCTGTACTTCACACTTTAGACTGGAAAGTTGAAGTACTGAGTATATAA [T/G] ATATTGGATCTTCTATGTAGTTATCAGTTGCTAATTATAGATAGAAAATACCAAGGTTAGT
2188 CaSNP4214 CCCTTGGATATCAATGTCTCCTTCTTTCACTAAGTACCTTAAATATAAAAAGGAAGTAAG [A/G] AAAACAACATTGAAAGGCTTGTGCCTCATCTCTGTTGAATCTTCTAGATTAGATGGAAAT
2189 CaSNP4215 AAAAACTACACTCCTACTTCTTGGCCCTTCTGCTCTGGTACTTACCATTTCCTGGGT [T/C] GTTATCGCCTTTTCCGGTTCCTAAATTAGGGTTATGATTCCAAATATAATATTAGTACA
2190 CaSNP4216 AGTTAATATGAACATGGTACGTAAGACCTTATAACAAAATATTTATATTCGACATGTGCA [T/C] TTTTTTCTTCTATTTCTCATAACGAGTTTAAATGGATGTATGTATATTGTCATTATAAAT
2191 CaSNP4217 TAACTAGATATGATAACTCTTACCATCCACTAAACGTAATTAACACAATTTCAATTT [A/C] TTAATCATAATTTTCAGGTGATCAAATATACATGATATCTACTAACAATTCAAATTTATGT
2192 CaSNP4218 CACTTGTACTCTTCCCGTAGCAACTTCCCTCAGCCATTACACTCATTTAGTGAATTTAA [A/G] AGCACAAATGTATAATTATATACTCATTTATGAAATTAAGGTACACAGGTGTATAATTG
2193 CaSNP4219 TATCTTCATCAAGAATAAACGAGGATCAATCTGAGTCAGAATTTATCCAGAATTCGAAG [T/C] TCAAAGATATACTTCATATAAAGTTTAAAGCAATATCATTCTTCATGTGAGGCAAATGCA
2194 CaSNP4220 TCAACGAGAGAAACACTTGTTCAGGTTATAAATATTTTCTAAGTGTCTTTTCTTAGAGT [C/G] TGAGAGTTATTATTATTTTTCAGCTTGTGTAAGCAACTATTTAGGTTCCAATCTTTTGT
2195 CaSNP4221 CTCATGACTTTGGTACCTTATTACCCAACCATCACGTAAGGACCATGGCTCCGCTCTTTG [A/T] CTCTCCACAAAAACCAGCTCTCCATTTTTAGAAATAAGTCAGTTTTTAACTTTCCAAA
2196 CaSNP4222 TAAAGATAAGAACGTGGAAAGGACAACACAACCAAGACTAAAGAGACAACATAGACTCA [T/C] AATAGGACATATAGGAAACCACAAGCGCGCAAATGAAAAATATATGGTAGGACAAACA
2197 CaSNP4223 TTGATTTTAAAGAAATATGGCCCTCCCTTATTTTGTATGATAATAAATCGTTTATGAAAA [A/G] TTTAATGCTCTAACGTTGTACTTATGTGCGCAGGTTGAGATCAAATATTTAGTTAATAG
2198 CaSNP4224 GACCCGATTAAGAATGTAGCTCGCTACCATAAAATTCAGTTTCAATCGGGGAATAATAG [C/G] ACTGAGCTGTTCCACCAAGTTGTCATAACAAGGATCAATTTGTCCTTCCAGAATCTTGT
2199 CaSNP4225 GCAGGTTGTATCAGCCTGAGGTTCTTCTTGATTATGGAGATTAATAAATGAGATAATT [T/C] ATTAATCTTTTCATAACTTTTAGACTTGGAGGATAATCATCAATGTTTTCCATAGATCC
2200 CaSNP4226 GCGCAGGATTTACGCTTCGGGCGCGCCTGGACAATGCTTAAAGGCTCGAAATGCGCCTCG [T/G] GCGCAACTGGCGCTCTTCAGGCGCACAACTCTGTTGTCTGGAGTATACTGTATTGTACG
2201 CaSNP4227 TTCATCAACAATAAACACAAACCAGTGTGTTAAATAGCAGCACTATAGTGTAGAGGAAT [A/T] TAAACAAATCACAATTTAGTACACTATTTAGTACAAATTTTTATTGCATAGCGAAATTTG
2202 CaSNP4228 TAGAGTATAATACAAAATGATCACATTCACAACCATGTAATTTACACACAAGATAACC [T/C] TTTTTCTTCATTCTTCTCCAATATATTCCTTAACCAACAACAATTCATCAATTTATCA
2203 CaSNP4229 AAGTATCTTGATCTTAACATAGAACATCTTAAATGTCTTAAGGATATTTTTTATATTT [C/G] ATGATTTGTTCCCTTATTTTCATTAAGATTAGGAGTCTAGTATTATCATGATTAGTATTT
2204 CaSNP4230 TATTCAAATCCCAATGTATGGTCTCTACCTGGTTATACTCCAACCTTAGTCATCAACCG [T/C] ATGAGCAATAACCTAAACGAATCAAATATCAACTTCCAAGCCTAAATCAACCACAAAA
2205 CaSNP4232 GCAAGTTCCTGTTTAAAGATGGTTGCTTTCAGTCAAAATATTTCCACCAATAATAACAACG [C/G] ATAAGTGTATGATAGTAGCCAAAAGAAGAAAGACTTCTCTACATGGAACATTATAAAGAA
2206 CaSNP4233 CTAGACAACACTCTGATGAAGTCAACACTCTAATGAAGTGCACATTCGGATAAAGTCAAC [A/C] TTTAGATATCATTTGCTCATCCTAATAGACTTACCATTTGACTGAATAAGCACATGACTT
2207 CaSNP4234 ATGGGTATAGCTCATAGTTTGTAGTATAGTGAAGTGCATTGAGAGTGGGGTTGCGGGAGGC [A/G] AAGTCCCTACAATACGATTCAGGTGAATCTTGTAAAGTTGGACCGTAGATTTAAATACA
2208 CaSNP4235 AAATATGAGGACACGGAAGTTCTTTTAAATTTATAATTAATTAATTAAGGATG [A/G] AAATGAAGATGGATGACCTTGATTTAGTCATATTTTTTAAATGAAGGAAAAATACTAA
2209 CaSNP4236 AATGTTGGTGAATTACGAGGCTGAAGGACCCACTATACAAGTAAAGTCTTCGAAAAAT [T/C] ACTCCTTTTTTCCGTTACCTATTTATCTTTTTATGTGCAAGGGTTAAACACTCTAATTGA
2210 CaSNP4237 GAAACAATGTAATTATCCTTGGTATGGCTGCCATAACTTCTTTACCACATTTACACTTAA [A/T] TGGTTCATTAACCTTGTGAGTTTTTCATGTTGCATTTGTCACATGAGTAATAGAGTCATT
2211 CaSNP4238 GTGCAACAAATGAGTCCAAGATGGAGCCATATTTGGGTGATGATGAAAAAGGGTGAGG [T/C] AGTTGCATATTGATGATGATTTGGAATGGGTGAGTATGGATACAATTGATGAGCACAAG
2212 CaSNP4240 GTTTTGTTCCTCTTAATCCACTTGTTCCTCTGACGTACCATTCAACACAGCGAAAGAG [C/G] CATGTTGTTCCCTTCCGTTGAGTTTTTGTCTTCTCTGGTCATTTTCTTTGGTAATATCC
2213 CaSNP4241 AAAGAAAAAGGTAATTCAAATGGAATCAAAGAGCTTAGTAGAAGTTATTTGAGAAAAGC [A/G] ATTAGTTCATAAATAGCATACAAAAACAAAAATTCATAGATTTAAGAAGGTTTATCTAG
2214 CaSNP4242 CCTCTATTGTTTCCCTTCTCCAGATCTGGATAGTCTGACTTGATATGTCCAGATTCATT [T/G] CATCCATAACAGATAATAATTTCTTGTAAATATTCATTTTCTCCATTGGACTGC
2215 CaSNP4243 ATTTTATTATTGTTTAAATTTTATTTTGTATTTTACTCTTCTTCTGCTCTGTAGG [T/C] CATAACTTGAGCTCTGGATATCGGATTTGGCGCATATGAGCCTGCATTGAAAGCTAAAAA
2216 CaSNP4244 ATTTGATAATGTCCACCGTTAGACAAATGTTCTTTCAGAGTTTCATGTTGAGTACCCAC [T/C] GTTGAGTATTTTTCTCAAACATGTTGCCTTTGCAATAAATACCGTCACATACTTGTGAC

2217	CaSNP4245	ACTTTATTGTAGCTATCACTCAAATATAGGTGTTGCCCCATTAATTAGTGATCTTTTA [A/G] AAATATTGGAATATTATTGTATACTATTACCTCTACTCTTATATGTAAGATTTATTTCTA
2218	CaSNP4246	TTGCTTAGAAGTATAATCCTTAATATGCTGAGCATGTCCAGGTTCCATATGGGAAATCTTT [T/C] GTTTCTTACTTTAACACCTATATGCTTTGCTAGTGAAGCATATTATTTCCCACGAGATAGA
2219	CaSNP4247	AGCAGGCAGTAAGAAACGCTAAATTAGTTCCTTACAAATGCAAGTAACTTTTTTTAAGC [A/C] AAAATGAGGCATGCAAAAGCATCAGTATAAAAAC TAAGATCGTAGTAAGGTTGACACCGC
2220	CaSNP4248	GGAGAAAACGATGATAACCCAAACCAATATAATGAGGAGATGCGTTAAAGGTTGTACGA [A/G] TATCCTTACGAAGAGCAATGAGAATGTCATGCTTAGGTGGCAGAGTCGAATCCGGAGGTG
2221	CaSNP4249	TGAAGAGGAGTTGGTGTGAAGGTATCCTCAGGGAGAGGATCGGCTTCATGAAGGGAAGTC [A/G] GATTGTGGATTGGTGAAGACTGATGAGATGGTTGGACAAGAGAGTTAGGAGAAGGAGAGT
2222	CaSNP4250	TGATATATTTATGGTTGTCAACTGTGTTATCTTCAATTTGATTAGTTCAACCTTAACTAAC [A/C] ATCAAGTTCAAACCTGCAAAATACATAAAACATATATATATAAATTCAGTCATTCACCACAA
2223	CaSNP4251	GGAGTAAAAGAGGCCGAGGAAGAAAACATAGCAGCAAAAGTAGTAAATCTGATGTGTAAT [A/G] CAAGTGAGTGGCTGCTGGAAAACCAAGAACCCGAATTGGAGACAGCAACGAAAACAAGAA
2224	CaSNP4252	TAACAACCTCCATTTTGTGTGGAGTTCTTGCACATGAGAGATTATGAGAAATGCCAAGTT [T/C] ATCAAAGAATATTTTAAAAGAAGCATTATGAATTCTCCTCCATGATCACTTCTTATAGA
2225	CaSNP4253	CCTAATTGATAATGACAATGTAGGCCACAAAAGAGACCCAAAAGAGCATACTTAAAAGCA [A/C] AATGAAATAAATAATCGAAGTGGTTGGGGTAAAGTGTTTAATGAACTTCAGTTAATCATA
2226	CaSNP4254	TCCTTCATTTTCATATGGGTTGTTAATATTTTGGAAATTTTGTGAAGGTGGAGATAGTCA [A/G] ATGGATGCATTGATATGGTATAGTTGGCTTGGTGGAGTTATCATTTGGGACAATGATAGGT
2227	CaSNP4255	CAAAAGAGATATTAAGAATGTATTTTTAATTTTAAATACATTTAAAAGTTACAGTGACGAT [A/G] TCTTACATATTTAAGAAGCAAAATGATTTTTTAAATATTATTTTTCAGACTTAAATATTTA
2228	CaSNP4256	AGGGTACAAATATAAATATTGATATTTTTTGAACGATAGGTATGGGAACAGGTAGTATT [A/G] TACTCTACCCAAACACTATTTATTATCATCCCTAGTTATTAGTAATAATTGTAATAGTAA
2229	CaSNP4257	CCTTGAGGGCTGGTCAAGTCTTTAGAAGATCATTGGTGTCCCAATAGTTAGAGAATCTG [A/G] ATAACCTGTACTTCCATCCAATTTTAGCTTTTGGAGGATCTTACTTGTTTTAAATGTTGAA
2230	CaSNP4258	TTAATATAATATTTTCATAAGAATAAAGGGGAAGATAGAGAAGCTTCATTCTACAAAATC [T/G] GAGAAGGAAGAACAAATTTAATGTGCCTTTACATAGAAAAC TAAGAAGCAACTATGGAGGT
2231	CaSNP4259	AATTACCATAGACTTATAGATTGATCAAAATTTTCATAATTAATTTACAAACATGCAAAA [T/C] GGTGGAGTCTATAAAGGTTGTAATGGTGCCAGATAGATTTTGCATAGATGGAATAAAGAA
2232	CaSNP4260	TTACAAAAGCCATGATGTAGTGTTCATGGAAGACCAAACCTGTGAATACATTTGATAATGT [A/G] GATAAGACTACACCTGAGAGAGACTATTATGTGTGACCAAGGATACATAAAGACTACTTC
2233	CaSNP4261	AAACAAAGTTTAGTTTACCTCAAATTTTATGCCACTGCTCCTTGCTTTTATGACATTTTG [T/C] GTGATGGTTGCACCACGTTTGACTTCATTTTCGTAAGTCTTAGTGTGACAACCTCCTCA
2234	CaSNP4262	ATATTGATTTTGGTCATCTAGCGATGGCTTTATTTTCCGACGAGGAAAAATTCGAGACAT [A/G] AAATTAATATTGGTCGTGTGGCAGGCACCAACTCTTCTAGAGAAATTTGCATAATTGCA
2235	CaSNP4263	TTGAATTA AACCTTCGTTGCTATCTATGGTACAACAAAACCAATTTTGGTGTCCAA [T/C] AGATGATCCATTTGTCTATTTTGAAAAATTGAATGTAATTTATGTCATACCAATGTTTC
2236	CaSNP4264	AGATTTATTATTCTAATTATAATTTATGATATATTGAACTTCATTTTCTTAATGTATCA [T/C] TATTCACTTTTAATTTACAAAACATGTCAAATTTTCTGTATAGAAGGGACACAGATTCA
2237	CaSNP4265	GTTAAAAATTTGGGCTTCAATTTAGTCTTTGTTAATTTATGAATTTGATTTTATTTCAGATT [A/G] CGTTTGTAATTTCTTCAAATTAATTTATGTTCTCTTTTGTGTTAGATTGAGATTGTAAAT
2238	CaSNP4266	TCTTTTCTTTTTTCTCCTCAACACAAGTACTTACTTTTTGAACATTGTGATTTTTGTTG [T/C] TCATGGTTGTTTCATTTTCTTCTCTTCTTTGTTTATTAATTTTATTTTATGAT
2239	CaSNP4267	TGAAACACATACACTGACACTGTAATAATTTGAGAAAAATGAGTTAATTGAATGTAATTA [A/T] TGTGTTGGTGTGACACCCGAATATGGCTTCAACTAGAGTGTCTGTGTACAAAAC TA
2240	CaSNP4268	TGTAGCGGTGTCAGGTGGTTTTTACCATTAACCTTGCGGTGGTCCTTTTCTCGTACCCCC [A/C] CTCATCATCTCTTAAAAACAAAAATAACCGCACACGTGGCAATATCATAAATGCCTCTCA
2241	CaSNP4269	CTTGTTAGGAACCCAAGAAATGGACTCCTAAGAAAGAACACTTCGATTAAGAAATAGGAG [A/T] AAACCTCTCTCCTCCAAGGTTTCCCCCTTAAACAATAGAGAGTATTCTCTATTCAACAATTG
2242	CaSNP4270	ACAAAAGGAACATTATAATCATCACTAGCAAATGCAAGAACATTAGAATTAGTGGTGGAT [C/G] ACAATGAATTGTCAATGGATGCAGGCATATTGTGATGAAAAC TAGATGCATGATGGTTGT
2243	CaSNP4271	TCTTAGAATGCATCATAAGTATTAATTTTCTCGAATTAGAGATTTAGATTGAGTTGAGCT [T/G] CGTGAGTAAGTGTTCAAAGATTTTATGCAACATGCAAGGATAATTTATCACTTGATATGAT
2244	CaSNP4272	AGGGGAACATTATGTGGAGACGGATAAATCTTGATTTGTTGGCTGTTCACATTGGTTT [T/G] GATTGTAGAGGTGCGGGTAAATCTTTTCTTTTATGATAGATGGAGTGAATGTAGCATT
2245	CaSNP4273	TTTCATATTTTGTATTAACAGCTATTTTGTGTAGTTTGTATTGTTTCATTGGTTTAGC [A/G] CAATGTTGAATTTTGGTGAAAAAGCAACATAACCCCTTGTGCAATATTTTCATCATGTTTG
2246	CaSNP4274	CCAATGCAGAAAAGTTGCAGGTCTCTCACACCTTTGTTACTTGAAAAGATACCCGTCATC [A/G] AAAAAATCAATTTGGGAGATGGTGGGGGAAGAGAGATGACATTAAGGTAGGGGAATATTTT

2247 CaSNP4275 AATTAAACTCAGAAACATCCATCATTAGATATATATATTACGTTAAGTGGAGCATCTAAA [T/C] TATCCCTCTATGTCATGGTATTAAAACATTAGACTGAGAGTGGTATCTTTATTTTCGTTT
2248 CaSNP4276 TTTTTTACGATGAATGTAATGCTGTTTCCATTAAACCACCTTCGCAGCCTTGGTTACCA [T/G] TTTTAAACATCACAATCTACCAGTTCCTGTTTCAGACAGAGACACCAACTCCCCTGTTTTTA
2249 CaSNP4277 TTATTAATTATATTTTGTGATATATATATATATATGTGTTGATATGGTGCATAATTT [A/G] CTACATAGTTACTTTTGCCTACTTAGTAAATATTTAAATATTTAATTTAAATATTTTGT
2250 CaSNP4278 TCAAGAATAACATATTCACACATTTTGACGTGCCTCGAAGCTTTGATTAGTGACGAGGGCA [A/C] TCACTTTCTAAACCGAAAAATGGAATACCTTATAAGGAAATACACGCGTGCATACGGT
2251 CaSNP4279 CAACTCTACTTGGCTTCTCTTTCACTCAGAGTCAACATGACTCCTTTTTATTTATTCATC [A/G] CACATCTACAAGCATTGTCTACTTCTCCTTTATGTTGATGATATGGTCATTACTGGATC
2252 CaSNP4282 CTTTAGCACACATTCATGAGTTAATTTTACATCACCAAAATCAATAAGAGTATAAGAATA [A/G] AAAATATCTCTTCTTGATGTAACATGCACATCAATCACCCAATGGATGCACATCAAC
2253 CaSNP4283 TACCGTTGCAGTCCACATGATTGCCCAATAAGTTACAATAGTATTCAACAATAACAT [T/C] CAAGCTTGTTTTCTTCATTCAACCAAAATTCATCTTTTACAACATCATATTTATGA
2254 CaSNP4284 GACATAACCAATGTCTGCTTATGGCAAATGAGTGCATCAGAAGTCAAAAGCGACACAGG [T/C] GGGGCATGATTACAAAATACAAAAGATTTATCATCATATGATATATGACGCGATGCTCCC
2255 CaSNP4286 ATGAAGAGCTATCATTCAATTTAAAAGAAAATCCAACACATGTGAAACAACATGAAGATAT [A/C] ATTTCTCAAAAAGGATTCAGATGATCCACAAATAGCATAAAAAGAAAAGAAAAATAGA
2256 CaSNP4287 AATTGTTATTGTGAAGCTTTCAAAACTTAAATGTTGGCTCCATTTTCATGTTACGATAA [T/C] GATTGATACATAGTGTAAACTATGGTTGTAATATGCTGCAAAGCTTAATTTGTAGCA
2257 CaSNP4288 CGAGAAGAATCAAGTATATGAGTGGGTTTAGAATTTTCCATTGGAACCACTACCAATTTGA [A/G] TACGTTTGCAATCTCCCAACAATGATAATTTTCAATAAAAATCCCAAGTGGTCTCTCC
2258 CaSNP4289 CTTCAATTCACTACCAATCAATCTGAATCCACTCCAATTGATAATGCCTTTGCTTTTGGT [T/G] CCCCATCTTACACTCGTTACATAATCTATCCTTGCATTTCCCTAATATGGACTTCTCTG
2259 CaSNP4290 TCTGAAAATATATGTAAGAGTTGAGTTGTTAAAGAATATAAAAAATAAAAATAAATAA [T/G] GGAAAGAATCGTATTGTCCCGATTACATAAAAACAAAATCAATAGTTTTGTTTTGTAACA
2260 CaSNP4291 TTCAACTTTTCAGCATGATTATCATTCTTGATCTCATGTCTTTTTATAGCTTCTTTTGT [T/C] GGATGGAGGCATGCCTTCTTCAAGAGTAAATGTTTGTCTCTTCCAAACAAGACATCAT
2261 CaSNP4292 GTAATAAAGCAATGATTCTGAGCACCATGAAGTTAGCTTTTAAATTTACAGATCTATTA [A/T] ATGCTCCAAAACAATAGTTTCAGGGGTTGGTTGGTCTGCTTTAGAGCAAAAATAAAGA
2262 CaSNP4293 CTAAGAAGTTGATTGAGGATTATGTCTTATAATCATTGCAATCAAACCTCTAACAAAT [A/G] CATGAGTTTATTGAAAAGATTGAAGAGTTTGGGTTTCAATTTTGTGGTTTGAATTT
2263 CaSNP4294 TTTTGTATTATTGATCATATTTTCTGCTCATAGTGCAGAAAGGGCTCCACCAAAACCA [T/C] CAGACATAGCTCTACGAGATAGTTTTCTTTTCTTACTCTATTTTATACATGTTATTTAT
2264 CaSNP4295 TTCGGCTGTCGAGTTCCCAACAATTAGGGAATATAATTATAGTTTCTCTTTTCTAACATT [T/C] CAATATTCGGTGAGATTTTTTCGGTGAACCGTGTCCCATTTCCGGTTTACCCCTCTTTG
2265 CaSNP4296 TCGTATTAATAATTGACGTAATCTTCTTAATAGCATATATTTTCATGAGAATCAAGTCACA [T/C] TGATCTCTTACCTTCATTCCTTCTTCCCTCACGGGAAATGACCCGTATCATTACCCGTAGC
2266 CaSNP4297 GCAACTAATTTGTGGAAAAAATATTACAGTGAAGAAGCAGCACAATGAAAGTTTATTTA [T/C] AATTGTCGCATGCAAGATTGGTCGCAGATATTTCCACGCACTAGAAATGAACCTATTGTA
2267 CaSNP4298 GGTACCCACTTTGTTTTGGGTCTTGAGAGTTAGTTTTTCTTTTAAAGTGGTATATCATT [T/C] CTTTTTTAGAAAACAGCTGTGTTGTTGGTTTTGAAATGGGTTTAAACAGTGTGAGATTTAG
2268 CaSNP4299 GTCTGAAAGCGAGAGTCCAAGGGAAGAGAGGGAGAACAAGCAGATAACTAAGAGAAGATA [C/G] GGAGAGAGGTAGATAAGAGATATGTGATGTTGAAAAGAGAGGGATAGAGCAGAGAGGAGA
2269 CaSNP4300 GTACCAAGTACTATATGCTGCTTGTATCCAATTCAGATGAAACATGGCTTTGGCATAAA [A/C] GAATAGCTCACATCCATATAGAACATTTGAATAAACTTGTAGCAAACAGTTAGTCTTAG
2270 CaSNP4301 AATATATGATTGAATATATGATCGGTTAGTGATATGTTGAAATCAGTTAGTTCAATAATC [T/C] CATTATAAATAGAAGCATGTATAATTCATTCCCTATCTCTTTAATCAATCAAAATGTTT
2271 CaSNP4302 AGCATAGCTTGAGTTAAACCATCTCCTTAGATTCAGTTAGTATGCAGAGGTCTTAAAG [T/C] AAATGTAAGTAATAAATTTTTGTTCCACAATATTGATTTGCTTATTAGTTATACAGT
2272 CaSNP4303 TGCCAACTATTTAGCACCCACACTTCAAATTTGATTGGTTGATGTTATCATGCTTCTTTT [T/C] CTGTCAGCTTTGGGAGTCTCCGGTGGCCCTGACAGTATGGCACTCTGTGTGTTAACTGCT
2273 CaSNP4304 GTCTAAAGGACCTTAATTCGTAAGGTAGGTGCAAGGCTGTAGTAGAATCAACAGTAATA [T/C] ATGTGTGGTTATCAAATGTGAATTAGGAGGTATATTAGAAACATGACCAATATCATCTA
2274 CaSNP4305 TTTCCATCCAAATCTCACTTATGGTTTATCTTGATTTCTTTTGACTTGATCAGATTCATC [A/C] TCTGATGATTTGTCATCTTCTCTAATTTACTTCTATCCTTTTATTTTTCAGATTCCTTT
2275 CaSNP4306 CCGAATACCTCCAAGGTCTAACAGTCTTGCCCTTAAAGGCTCAACATAGACTGCCACGATCA [A/G] GCTCATTCATTTGTATATGATGACAAAATAATATTCACCTTCACAAATTCATATTTTAT
2276 CaSNP4307 GTTTTCTCTTAGTTGAAGTGAATATAGAGATAAAGTTATGTCATAAAGAGAAGCATAGT [A/G] ACTATGTGAAGGTTGTAATGTACACCGGAGGTTTATGTTTCTCACATATATATACATGCA

2277 CaSNP4308 TTTGAAAATCGTGTACAACTAAATGCAAATGAACAACTAAAATGATTCCTTAGTAGA [T/C] GCAGTTGATGAACATGAATACATGTATGAGCATGAATGCAATGATGTCGCAAATAGTAAT
2278 CaSNP4309 AGCATGCAAAAGTACTATTTCCAAAAGCACTCTGAGTCTTAAGAGGCAGATGCATAAACA [T/C] GCTATCAGACCCAATCTTCATACCCAGACTTCACACGCAAAACATTAGACCCGAGACATTAG
2279 CaSNP4310 CCCCCAAACTACTGTTCCACCAACATGCGCCGCTCCACATCTTTACACTAATTATCAA [A/G] AAGGGAATGCACAAAATTTCCACCTTATGGTCTTCTGCCAAGTTAAACCCACCATTAG
2280 CaSNP4311 TTTATTATTTATTATTAGCAAAGAGTTTGTATTTTGTATGTCAAATACACCCTTAGATC [T/C] TCCATGACCAACATTTACTCTTGTTTTTTTAGACAAATGTTAGTAGAATATGTTAGTTTC
2281 CaSNP4312 TCTGTCCCGTTCGTATTGAATCTACACAATGTGTTTCACATATCGCAACTCAAAAAGTAC [A/G] TACATGATCCGAGTCATGTGGTGAATCAAATACTGTTCAACTAAAGGATAATCTTGCTT
2282 CaSNP4313 CTTGAAGACTCTTATTATATCCATTATGTTAGCGTAAATGTTGAACGTCTTTATTTTGG [A/G] AATTCATGCTTTGATAGTGACACCGGGTTGAACTATATTTGCAATTATTAATAAATTTA
2283 CaSNP4314 TCCAATGGAACTGGAAGCATTACTGACTTCCCTTCGGGATAAGAATATTTTGGTCTCGG [T/C] GCCACTGGCTTCCCTGCAAAAAGTATATATATCTCTATATGTTTAATTACTTATTAGTAT
2284 CaSNP4315 CATTCAAAGTTGGAGTAGTTCGACCGACCCTCTTTGACCACGTCTCTGCCACACCCA [T/G] TTTGTGGCTTGACTGTCTCTCTCGAAGTTGTTGCCTCGACCACCTCGACCATGACCTC
2285 CaSNP4316 AAATGGTTTTAAAATTTCAAAGTATTTATGTATGAACCAACATAACCCAATTCAAATTTG [A/G] AACACAAACACAAGTTGAATCTCTCTTTTACTCTTAACCTAAGAAACAGTTCTTACATCAC
2286 CaSNP4317 CTTGGGTTTGAAGGAAATCTTAGTTTTCTTACCCTTTTGACAAACATCACATAATTTGTC [C/G] TTAATGAATTTTCATCTTTGGTAATCCTACAACAAGTTTCATGCTTGACTTAACCTGTTTAA
2287 CaSNP4318 CTTCAGCACTCATAAAAATAACAAAGTTTTTCACGGGTTGTAGTATATGACGAGTTTCT [T/C] GTATCTCTTTGTAGTAAAGATCACAAAGTCTTTTTATAGAGAAATTTCAAGACCCACTTT
2288 CaSNP4319 CTCTTGGTCGAGTTGAGGAAGGTAAAAGGCAAAAGACAAAACCATGGTTGGTGAAGGAA [T/G] AAAACATAAGAAGCGATATGAATTCGGCGGCAGCTCGAAAGCATCGGTGCCGAAGAGA
2289 CaSNP4320 TATATCCCGACGTAACCTCAGCTCGCAAATAAATTTAGCCTTCAGTTAAAACCTCGTAAAGT [A/T] TTTATCAATAGTTATTATTACGACATAAAAATTTGATTATTAATAAATTTAATTTAAT
2290 CaSNP4321 TTATTTTATATTTCCAATGTTTTTATATTTTACGCTTTAATTTCTACTATGATCATATGTGT [A/G] TAGATCTTTCTTGTGTTGAGATTGTAGGATTTTCAATGTTGGATCTATAACATTTTCTAT
2291 CaSNP4322 TATATATATATCTGAAGTATTGCCAACATTATTCAATTCATAAATATATTTTACTCTAA [T/C] TCTTGAGACTCTCCATAAATTTTAAGGTTTCTCTCTATGCACGTGCAACCTAAGAGGCA
2292 CaSNP4323 GATAAATATGGGCAAAATGCAAAAAGAGCAATAATTTTATGAACAATGGTAAAAAATTT [C/G] TAAGCATAAAGAATCAATGCGATTTTCGGTGAGGACATATTTATGAATTAATTGATGATCT
2293 CaSNP4324 AAATTAATTAATTTTTTTGCAAAGGTAGTAGTTTTAAAAGAGTGTCTTGTACTGTAAAG [T/C] TTAATTTCTAATATTAATCCACTAAGGAATTAGGGGTTACTTTGTAATTAATGTTATGT
2294 CaSNP4325 TCAAGTGTGGCTTTGATCCACACCAATATGGATTGAGAAAACACTTTTACTACTTGCACG [A/C] ATTGATGCTTCAAAAAGTGTACATCTAATGAAGACCGGCTAGGTTGAAAATCCAAAAGG
2295 CaSNP4326 CTAACCTCATGATTTTGGGCATCCTACCTCTGATGATTAAGTTACGTTTTTGGGCATGTTG [T/C] CTATGATGCTATTTTTCAACTATGAGTATTTCTGCCTCTTGTCTCTCTCAATTTTTTT
2296 CaSNP4327 TTAAACCACTTGATTTTAACATGATGAATATTGAATGTCTGGCAAGCAAATCCAAATG [T/C] ATCCAACCTATTGCTTATTTGTCAACATGTATTGTAATGTTACCAAACCTGATCTTGGGTCT
2297 CaSNP4328 CAGTTACCTTTAAGCTGCACTCATCTTTCTTTTATTTGTCTTTGTTTTCACACTGAACA [T/C] GATGAGTCATGCTAGTGATTTTTGGCAGGCAAAAACCTGTAACCAATGATGAAACACTTG
2298 CaSNP4329 TATTCACCTTCTCTTTTAGATTTACCATCAGACTGCATCTTATCCACAACCTGTATGC [T/C] CAATGATCAGATTAATAACAAAATTAGTCACCATCAACAATCTACGGCGTAAAAAAGCAA
2299 CaSNP4330 AAACATTGAACTAATTCCTTGCTTCATGATGTGAGCACCAGCCTTAGAATACGATCAACA [T/C] TTCCCTGCTTTGGAAAGAAAAATCGATCCTATCACAATAGGTCAGCCAAACCTTTTATA
2300 CaSNP4331 TGATTTTATTAGATGAAAGCCTTGATGTCCAAGAAGATGCAATGGCAATAAATGCAGTT [A/C] AAAAAAGAAAGAAAAATCACCACCTGATATAATATATTGTTGTTAGATTTGAAGTAGGTT
2301 CaSNP4332 TTTGGAAATAGCAGCAACAAGAACTTGCAACATTGGAGTCAAGGGGGACCATTGGTAT [A/C] CTATATCTATAAAAATTTACTTCCCATCACAAGATAAGCAAAGAGATACTCATGACACAT
2302 CaSNP4333 TGGTGTGGTGTGAATCGTATTGGGGTGTGGGAAGACATTATGATTTCTTATAACTGCAA [A/G] CAATGAAGAAGTATTGAAGCATTTTCAGCAACAAAAAACAATGTAGCAGTGCCTCTCTA
2303 CaSNP4334 TAAAATGAATCACTTATTGAAGAGGATTTACACAATCCTTTAAGCCAACCTAACATTACA [A/T] ACTAGAGCTTCAAATGTTTGGAGGTGTGAGACAACCTACGGTATTCGTCATCACTCGTCTC
2304 CaSNP4335 TGCTTTTCTTCTTTCAAATAATGCAGGGCACTGATGCTATCTGGGAACCTGCATTCTACCA [A/T] ACTTTGATCCATATGCAAAAATGCTATTGAGTTATCAACTTGAAGAACCTCACTCAACGA
2305 CaSNP4336 CACGTAAATATGGATAAATATCTCCCATATTTATTTTTGTATTTATTTGCTTGGAGCCTATA [A/T] AAAACAGACTCCGTTGTGTAGTTTCAGACACACGGTTTCACCATATGCTCTCATTTTTCTC
2306 CaSNP4337 TTCCTTGAATAATGCATCATATAAATCAGATTTAGACTTAATATCTGTATACAACCTGTTG [A/G] CACACAATGCTCCAATATTTCTTCACTATGACCAAGTAAAAACAACAATAGCACGATATCCA

2307 CaSNP4338 TCTAATCCAAGTATCCTTTGATCATGTTGCCTCTGATTCTGTATCTCTACCTCTAATT [A/C] TAATCATTGTTCAACTTCCTCTACTATGATCATTGTTTCATTTGCCTATGACTCTGATCAC
2308 CaSNP4339 GGTCTGTAAAACCTCTATTTGTAAAGATTCCGGGTATACAAGGTGATCTTACCTTGTATTTG [A/C] CAGAGGTTGATCCACTTGTGAACTTATGACTTTTCAGTGACATGGTGACAATTTCAACT
2309 CaSNP4340 AATGATAAATCACACAAGCCAATACTAAACAAATATTTATATTACACGACTTCCATGAGT [T/G] ACAGGCACAAAAGCTAGCACCACACAAGCAGCAAGACTATTCAACCATGCCAGCTGGAGA
2310 CaSNP4341 ACCAAACTTAGATGACATGTTCAATACAAATAGACTTATCCATTTGAAATGTAAACGTAC [A/G] TACATATAGATTTAATATACATTTTAACTAGTCATGCATATATATCTATTTTTGCAATT
2311 CaSNP4342 ACCATTATTAATTGCTCCAAAACGCTCTATAAAAGAAAGGTC AATGCTCAGGGAAACAACA [T/G] AAGTTCAAGTCTTATCAAGTCTCACAATCATTACATTACATACTTGAAATTCCTACT
2312 CaSNP4343 ACAATCAAAACCACAAAATAGACCTGAAACACTCAATACTAAGTTAATTTTCATGATTTTT [T/G] ATGTCAAACACACACAATATCCATGGAAGTAGCAAGAGAACTAAAAAACAATTTCAAC
2313 CaSNP4344 TCATTCTATTACAACCAATTTCTTCATAGAGGCCAATTA AAAAACCTGAATCCTTGTGTAAC [A/C] GTTTCATTCCGTGTTCTTCTTGATCATCATCTACTTCTAATTATTAGTTAACCTTCATTT
2314 CaSNP4346 AATTACGATGCAATTGTATCGTTTTGAATGATAACCAAAACAATGATACCATGTTAGAAAC [T/C] ACAAATTTATAAAAATTAAGATGAATTTCTTATTAATATAAACTTGAGAGCTTGACTAT
2315 CaSNP4347 ATTTTATCTGACTTGATAGAAAATTTGTGTTGAAGTTTTCATGGATGATTTTACTGTGTAA [T/C] GTTCCTCATTGATGAATGCTTGAACAGTTTAGATAGAGTTTTGCATAGATGTATTGAAA
2316 CaSNP4348 TCAAGGGTAGGTGTTTTTCTCCTTGCTCTGTTTATCGAGATTACGATCCTAGTTTTT [T/C] AAATTTTTTGTGTCAATTCCTGTCTCACTTGAGTGCTGCTCTTTGCTATTATGCAGGAT
2317 CaSNP4349 AGAAATAAGATTGAGGTAGCGTTACTCTTCTTGCAAAAGACAAGCTACTAGCTTTCCAAT [A/T] AAAAGTTTCTTTCGCATACGATTCAAAATAAAGGAGTAAGTGCTCTTATAAATTCCTCTA
2318 CaSNP4350 AAATCCAAAAGTACCATAGTACGAAAAGTGTGTACTTGACAAGAAAGACAAGACATTA [T/C] CGCTCTTGGAAAAGGAAAAGCCAAAATACAAGTAATGCTCTAAGTTATGGGAAAATCA
2319 CaSNP4351 TTGAGCAATTTGGAGAGATCTTAGAAGCTGTTGTTATCACAGATAAGTACACTGGGAGAT [A/C] CAAAGGTTATGGTTTTGTAAGTCTATTTTCTTTTATTTATTTATTTATTTATTTA
2320 CaSNP4352 TTAGTGGATTAAGTCTTCTGAATAAAGGGACTGGATGTAGCCAAGTAAGTGATGAACCA [T/G] GATAAATATATATGTCAAATTAATATATGCTTTTCATTTGTTTATTGTTTCAAATTCGACAA
2321 CaSNP4353 CTTTCATGTGTTACTTCAAGTGTATCCCAAATTTCTTTAGCCATTTTACAATGTGACACAC [A/G] AAAGAATTCATCCATTCCAAGTGTGATGTAACATATTTTTCGCCTTCTTATCAAATG
2322 CaSNP4354 ATAATGAAATGGTTGAAAAATATTAATAAATCTATAACAAGTAAAATCAATAATAAT [A/G] AAAAGCTTCAAATAGCTAATCCCAAATAAAAATGATGATATAGACATAAGGCTACTCA
2323 CaSNP4356 CAAAACAAAGTATAAAAAATACATTTTCCACTGTTAAAGTCATGCTATGAAGATTACG [T/C] AATGACTAACGATGAGTGTAAAACATAAATTTGCTTACCATCCAAATAAAGGACATAAAAT
2324 CaSNP4358 TTTTTGATATTTATCATTCTTAGCTTGTAGTTCCCTCATGAAGTTCTTTTAGCTAATAAA [T/G] TTGATTTTTAAGAAAACCACATTTATGAGATAGAGCGTTTGAGTCATTCAATAAGTTGTC
2325 CaSNP4359 TATAAAAATTTGCCGCGTAACATGAACCTCAACCAGAATTTAAACCATGTCTTTACTA [T/C] GCTCTTCATTCAATTGACATGAGAAACCTTTGGTTGATGTATTACCAAGAAAACAGAGA
2326 CaSNP4360 AGGTCTTCTATTGAGAATGATTTAAATTTTATTAACACCAAGAGTTGGATTTTTCTTTAA [T/C] ACATTGTAAACCAGATAAATCTTTATTTTTTTGCCGCTTGAACCTCAAACCTTGTATTCA
2327 CaSNP4361 AGTTTTAGAAGCATATTGATGTTTCATTACTCGGCCTTATATACTATATATATATCAAC [A/C] TAATTTAAACTTACGTCCATTGTACAGAACAATAAAGTTGCTTTTTTTCACATTTCCG
2328 CaSNP4362 TATACTATTATATACTGCAATAGTGATTAGAGGAGTTTACTTTTTCCGCCTCCTTTATTT [A/C] AATAAACTTACTTACCGTCCAATAAAGCAGTGACTCTTGGGCGGTCGTCTCCGTAGTGAAA
2329 CaSNP4364 GTCATGATGTTTAAAGACAACAAAACAAAATTCAGTCTCCTTGAATGTTCAAAGGCTTCTA [A/C] CATAGATGTAAGAAAGAACCAATAAGGATTTAGTAAACAACCTTTTTTGTCTGGGAGATAG
2330 CaSNP4365 ATAAGTGTCTTTGTTTAAACAATAATTTAACAAATATTGTATTGGAGGAATATAATATGT [A/G] TTCGAGCAATAATAAGTGAAAAATATACATAAATTTGATATTTTTAAAAAATATTTCAAT
2331 CaSNP4367 AATATATGTTACTATCCGCTAATTTCTTATCAACACACTCTCAATGTACTTCTATTGAAT [T/C] TGGTTTATAGTAACTCACCATAATACATCTACATCATAAAAAATATGACAACCTGGTTTGA
2332 CaSNP4369 TCGTCTACACCGCTAGTTTTCGTTGTTTGTGATGTTGATGTTGAATGGGTGATGAACA [T/G] AAACCTTCAAGACCTCTGCCTAGATTGTGTGAGTCAGATATCTACCCAGTGTGTTGA
2333 CaSNP4370 AAGAAAGTAGGATAGAAATAGCTTCTAACCCAGACCATTAGAGCAAATGTCTTAGTGAAT [A/C] AATGCCCTCTTGCTGATTGTATCCTTGTGTGACAAGTCTTGCCTGTTTTTGACCATTTCT
2334 CaSNP4371 TGAAAATCGTATTTGCGCTAGCGTAATCGACGTGTTCTTGCAAAGCTTATCGAAGTGGGG [A/T] AATATTTTTCTGTAATTCATCCACTTTGGCGTCTTATTTTTCATGTTGTACATAAAGAG
2335 CaSNP4372 ATCGCAACCAAAATCGACTTGTTTTTTCATCCATTTAGCCATCATAACCTTTTTCTTAGAC [A/G] TGCAAGATTTCAATTCGAACCTCCCTTTCTCATTATTGGGAAATTTCAACTTAATGTGAC
2336 CaSNP4373 AGATTCTACAAATTTCAAAGGGAATAGTCAGAAGGTTCCGCCTCACAACGAGCTAGTAA [T/C] TTCACCAGAAAAGATTTGACATATACATCAACCGTGTACGAAAAGATTATCTTACAATAT

2337 CaSNP4374 TTTTAAATGCCAAAGTTTGTAGTAACCAAATTTGTAAGTAGCCACAACCTAAAACCTATTAC [T/C] CTGTTAGCAATCTAAACTGCATGTTATAGATATATGTTAGGATATATTAACATTTATGTT
2338 CaSNP4375 AAGTCTTGCCTTATTCTCTGACCATTTCACCTTTTTTCATTTAGCTTGTTCCTAAAAACCCA [T/C] TGGGTTGCAATAATGTTCTTCTTTGATTTAGGTTACTAGATCCCAAACATCGTTCTCTCTTA
2339 CaSNP4376 TTCCTCTCTTTTCGCTCTCTACGTCAGATCGAGTAATGATAACTGATACTCGATTTTGTG [A/G] GTTGACCTCTCTTGCCCATGATATGATAGCTTCTCGTGACTCAAAAATTTGATCAGTTGT
2340 CaSNP4377 CCTTAAATGATTTGATTAGGGACGCTAATCAGAGCATTGTCAAGGAATTTCTACGCCAATC [A/C] TTTCTTCTTTCCAACAAGAATTAGACGTATCAAACCCTAGTTATGGGAAATCATTTGGAT
2341 CaSNP4378 TACCTATATAGTTTTGCATGTCGTTTTCTTGTTCCTTCATGGAAATAAGATTAGAGACAA [T/C] GGTGTATAAACGATTGACGTCATTGGAATATGTCTTCTTCTCCTTTGTCCAGACAACATA
2342 CaSNP4379 GAAGAAGATTTGTTGTTGTTGTTGGGAAGACATTGATTTCAAATTTGAATTTGGCGTGTGCGT [C/G] TGCCTGTGTTCTAAAAGAGAAAAGTAGAATGAATGTGGAATGGACAAGAAGCACTAAGAT
2343 CaSNP4380 TTGACTGTAATTTCTTGAAAAAAATTTCAATAGACACATGTTAGGTTATCATGTGTTAGC [C/G] TATGCAAAAAGAAAAGTGGTAGTCATGCCAATTTATGTTATCTATGAAATAATTTTTTTAG
2344 CaSNP4381 AAAATCTGAGTATATCCCTTGGTTACCAAATAAGACTTAAATCAATCAATCTTACCATCA [A/G] GGTCAACCTTCACCATATAAAGCCAACAACAACCTAGTAAAGACTTCCCATGAGGTAAAG
2345 CaSNP4382 TTCATTGTAGTATACTTCTACCTGTAATAATATTTTCATTTCCCTTGCTAGATTACATTA [T/C] TTCCACACTCGTGGACATGTAATCCATATATTGTCAATAACTAAAGGGATGTTAAACAA
2346 CaSNP4383 AATCCCACCATAAAAATGTGAGAAAAAAATTTAAATGGAATAAAGAGGGGAGAATAATTT [C/G] AAAATGTATGCCTAACTCCAAGTAGTAAAGTCTACTATCCCAAAATGTCTACCTTACC
2347 CaSNP4384 CAAACGAACTCTAGATACCCTTTGTTGCGAAAAAGCAGAGATAATTTATCTCAATAATGC [A/G] AAACATTTTTCCCTCACCTATATAGATAAACGACCGAATATAAAATACAATTCATGGAG
2348 CaSNP4385 TTTATGTGCATATGTTTGATTACACAAGTTTATTTGATGTGATAATAAAGATGATGCAT [T/C] GTATGATATAGATTATGTGATGATGTTGATGTTGATGTTGATTGATTATAGTGATGTT
2349 CaSNP4386 TTATTTGGAGTTATTTTAGTGTTTTTTTCCAGCAAAAGGTAACCTTGCCGCACACAGCTCA [A/G] TGGAATTCAGCATTACTGGATATAGAAGTTGGGTTCAATTTCCATCACTTCCCCCTTTCTT
2350 CaSNP4387 AATGTTAATATTTGGATTGGCATGGGAGAAGTGTGCAGAATTTTGTCTCTTCATGCTTAAG [T/G] GCAATGTATATTAGCTCTGTTGATTGACGTTCTTTATGAATGTTGTTATAGTCTTGTGT
2351 CaSNP4388 ACTACTTAGTCTATGAAGAGACAAGGTTACATTCAAGAAAAAATTTATCATACCTTATTC [A/C] CGAAATTCCTCTTCATGAGAAAGTTGTTGTCCTCTATGTCTATGTTGATGATATTATC
2352 CaSNP4389 TTCATATGGTTGATATTCTTTCGTTATATATGTTTTGTTCTATTTCAGTAAAAGAGTATA [C/G] TAATACCTCTATAAAAATGATGTCGTACTIONTACATTTTTTTCGTTTGGACTTTTTTTTTC
2353 CaSNP4390 AAATGTAGTACTTAAAGCAGAAACACAGAACAACAACCAATTTATTTCCGGTTCACCAC [A/C] AACACGGTATCTACGTCCAGTCCATTCTAGCTGAAGGATTTAATTCACAACTCACCAAA
2354 CaSNP4391 TGTATTTATATAAATGTTGATCTACACTTAGACAAAATAAATTTATAGAGAGCAAGAGTG [T/C] AGGGACGACTATGATGTGCTTATTGGAGTGCATGTTGTTGTTTATCTTCAATGAAGG
2355 CaSNP4392 TGCTCGTGAAGTTTTATTTTTTCAAATTTTCAAGGTTGACTTTGATGTCTTATAACAT [T/G] TTCTCAAAGTTGTCGACATACTTCTGCGAGTTTTTGTGAGTTATCACTAGCAATCTCAAA
2356 CaSNP4393 ACATTTATAAATAATATACTAAATTTTTAAAGAAAACCTGTCAGTGGATAAAGAAAATC [T/C] GTTAAAGAGAATACAAAATTTAATATCTAATTTAGGATATCACGTTTCTCTAAATACACA
2357 CaSNP4394 GTATAGGTAGTAAACATGTGAAAAAATAAECTTACATTAECTATATTTTTCATAGAT [A/G] CATCCAGTTGTGCAGCCTATGACACTTCCATAGATGCCAAATGTTACATCAAAATCCTGG
2358 CaSNP4395 ATGCAATTCACGATTCATAGAAAATCATAGAGAAATGCTAGTATTGTTGGTTCATAAACA [A/G] TGATATATACTAGGAGATCAATCTTGAGAAGGCTTAAATCTTGTAAAGTTCATCATTA
2359 CaSNP4396 AAACCTGTCTTTGTTGATTAGAGCTTAAAACTATTGTATTAAGAAGTGAACATTTGT [A/G] TTGCTGGAACAATTTTTCAGGTTGATGTTGAGCTGAAGAGATTTTCTTTTTCCGCTTTT
2360 CaSNP4397 AACTTATAAATTATACTACCTTAAATAGATAATCATTAATATGAGTCTTAGTCTTCAAA [T/C] TTAATATGGACACTTAGCAAAAACATTTGTTCTTTATTTATTTGTTTTGTTATCATCAAAA
2361 CaSNP4398 GTGAGAAGTCTTTTTGTCGTATGTTGTCAATCTTGGAAAGTGGTATGTTTGGAACTGAAA [T/C] TGGGCCAATGATTTAGGTTCAAGAAATATATTTTCTTATAATACAGCCCAATTCCTTTCT
2362 CaSNP4399 CTTTAGTAGATTTAAGATTATAATTAAGTCTTATCGTACAAGAATCTCTTGTAAACTA [T/C] TGCATTTGCAACTAATTTAATTTGGTTTCATGACCTACATCTATCCCTAGACTACAACCTCA
2363 CaSNP4400 GTAAATAAAGACGCGCGCGCAGCTACGACTAAGACGTTGGCGCGCTTGTAACTAGTAA [T/C] AAACACCAGTCAGTCACAAGGCAAGCATTCAATCACAGGGCCAACACTCAGTCACCTAGC
2364 CaSNP4401 ACACATACCAAAATCCAACAATCACTCAAAACAGAAATAAAGAAGCTTCTCCGTTTTTCA [A/T] CTTTAAATCCAAGAATATTTGTTTACAAATCAAAAATCTATTGTAATTTAAGATCGATC
2365 CaSNP4402 AGAGTGGTTACTACATGGCAAAGTTTAAACAGCGCATGGGCAAAAATAAAGTGATCAACG [A/G] AGGTTCTGGATGATTTTCGACCACTACCTCACGGTACATCGGTGGACTCCGGAGTTCAA
2366 CaSNP4403 GAAAACAACGGGACCCATGTGAACGAAAACAGATACAGTGTGAGTGGCTGTGATTGAA [T/C] CTGTGATTGAACCAGGTTCTGTAAAGCAAACCTGATAAAGCTAGTAGAAGAAGCCTCCGTT

2367 CaSNP4404 CCCTGTAAGACTCATAGTTTTAAATTTCTAATTTATGTATTTTGGTATTGAACTCTGAGAC [A/T] TTTTAGCCAAGTTATTGATATTTTGTAGTTAATGCCAAAAATATCTTTTGAAGCCCC
2368 CaSNP4405 CATCAAATTATATTTCACTATTAGGGTTAAGACAAAAAGATATTTTGGAGATATTTTT [A/G] GAACTAACTTAACAAAATGGCATTATATTGTTATTTGATTGGACTGTGTATTAACAGTT
2369 CaSNP4406 CGTACCTGCCGAGTTCCCGCCGTCGTCTTCTTGTCTGGTGGACAGAGCGAGGAAGAGGC [T/C] ACTGTCAACCTCAATGCCATCAACCAAGTGAAGGGTAAGAAGCCATGGACACTTTCTTTTC
2370 CaSNP4407 TAAACAAATTTGCATGTTGACTAGAAATATAAATCTAGAAGCTTCTTCATATCACTCTCAC [T/C] GTCTCTCTTCTCGTTGCCGTTGTCTTCGATTTTGCATTTCTCCACACAGGTAACACAT
2371 CaSNP4408 GATGAGTGGGAGGTAGTGGAAACAATGCATACCTTACTTTTGAAGGAAGGAACTCTTTAT [A/G] TAGTAGAGCTATTCAGGGGAAATGACAGGGAAAGCCGCTGAGGACATTACCAGACGCAT
2372 CaSNP4409 GATAAATATTATCATATTATGTGTATTAACACATAATAATCAACAAAATAATAGCATTTA [A/T] TTTTTTATGTATTTGGTACACATATCATGACATGATATAATATATATCATATTTAAATAA
2373 CaSNP4410 TATATGTTGATAAATTTTGTGGCTAATTTTCGTTATATGGATGCTTTCTATGTTGTGCTA [C/G] TTTGATACGTGTTATATTAATGAGCGATATAAATAAATAATTTTTATTTTATTTATTTT
2374 CaSNP4411 CACTGGGATGCATAAAGAAGGGTCCAGCATGTCAATTTGATAACTGCGATTGAAATTTG [A/G] GGATTTCTTGATATGTTGTGGTTGTTAGAACGATCATCAGATGAAGAAGAAGAAGT
2375 CaSNP4412 AAATGAAATAAAAAATTAATTATTTATAAATATTGAAGTCAATAATGTTTCGTAGAATCAA [A/T] TTCATCCATATATAATTAATCATGGGTAAACATACTCAAATGTATTTTTTAAATGTAA
2376 CaSNP4413 CATCTTATCTTGTATGATTGTCATATTTTACTTTTGTATTATTGTAATTTCTGGAAGAA [T/C] TCAACATTAAGATATCCCTGAAAGATTGCTAAAAAATGACTTTTCTTGATCATTTGCTT
2377 CaSNP4414 ACTATCATTCATTCTCATAGAATTTATTCTCGTCACATAAACTTAAAGCTCAATTGAATA [T/C] TTCGAAGCACATATACAGTATTAATAATTAGCTTATATAAACACTATTTTAGATATACA
2378 CaSNP4415 CTTGTAGGCTTTTAGTTAGGCATGGCAACGGAGCAGGGCGGGTTTGCCTCCACACCC [T/C] GCACCCGACTAATCAAAGAAAATCTGCACCCGTCACAGTTTCCATAACGGGTGTAATAATTT
2379 CaSNP4416 ATTTCCCTTATCCTTTTACTTTATTTTGGTTTCAAAGAGATATAATGGTGAACCTCACA [C/G] ACATAGTGTGGAGAAGTGTAAATCCAACCTGCACAGTAATATATATATATATATATA
2380 CaSNP4417 TATCTCAAAATCCTTTCAACAACATCCATATGAGCTTCCCGTGGATCATGCATAAACTGA [A/C] TAACGACATTTACTGATATGTAATGTCTGACCGTGTATGAGACAAGTAAATAGTTTGGC
2381 CaSNP4418 TCAACTCTCTATTCAAACAATCTCACGGAAATTTCTCTCAAGTGTTTAGCAAGAGTTATG [A/C] ATTTATCACTCAAGTCTAGAACATGTTTCAACCTACCATAGGCTTGAAAAATCTAGTT
2382 CaSNP4419 ATCATGCACTGGAATTTAATACTTGCAGCTACATGTGTACCCTTTTTTGGCTTCAAAA [T/G] CTTTAAAGGAGTGTACAATTCATCTAAATGATTAGTATCTTTGTGCAGAGGTATTC
2383 CaSNP4420 CTCTTTCTCTCTTACTTCCCTATGTATATATCTACCCCACTCAACTACAACAATTTCAA [A/T] ACCAAAACCTATTCTATTTATATTGTTATTATTTATTTATTTAGTTACAAAAAT
2384 CaSNP4421 ATTTTAACTAACATTAGTATTGTAGCTGTTAATATCAGACAATATTTGTAGCCATCATT [A/G] TGAATAATAAGTAAATGAAATCTCCTTAATAATGCTTTGTTGCAATTGGATGCATCATGT
2385 CaSNP4422 CATCAAAGAACCAACAATCTTGCTCATGTATAGGCTAACAGACAAGCTAGACATGGTCG [A/G] ATATTAGATTTTACTTTGGTGGTTGTGTGATTCTCGCAAATCAACATTAGGAAATAT
2386 CaSNP4423 GATGAGAATCATAATTACAACCTAGACACAAGAAGAAAAGATAAGATAACTTAAAGAAAA [T/C] CTAATCTTAGACAGAAGTTCTAAAGACGTCTAACCACACGCCTTAAGAGTTAGATGCTT
2387 CaSNP4424 TTTGACTTGGATTGATTCCTCTACACTCAATGTTTCTATATATATACTTAAAGACTTT [A/T] AACCTTTTGGAGTATCTTAAACAATACACGTTTAAATATTAGGAATCAAACCTTTCCAAGG
2388 CaSNP4425 GTGTTATTAATGGCCACCACAAATGAAGAAGCTTCTCCATTTTCTGAAATAGTCTTGTG [A/T] TGACAACTACAACCAATAACATTTCTGAAAAAGTGTAAAAATGAAGAAGCTTCTTCGT
2389 CaSNP4426 AGAACTGAAAAGAACTTGTAGATCCTTTGACGAAAGATTTGACAAAGGACGTGATGTTG [A/G] AGACATCATTAAGAATGTGATACAAACTCATATCTAAATAACCATCAACCATGAAAACAA
2390 CaSNP4427 TTTTTCTTTTATTAATTAATTAAGACAAAAAGAAAGGAAGGGTAGGGGAATGGATGTTA [A/T] TTTGTAATTTAGTTAGAATAAAATAGTGAAGTACCTATAAAGAGTTTTCCCTATCCAT
2391 CaSNP4428 AGAAAGGGGAGAAAAATAAAACCTTACTTAGAACTCTAAGCTGATCTTGAACCTAAAT [A/G] AGGATGAATGGGTATTGAGGATCTACGGGTGGCATCAAACCTCACTACTTCCGATTGCCA
2392 CaSNP4429 TTTAATTGGAATTAACAAAAATGCTTAGGATCTTTTTGTAAAGAATTAATACAAAAT [A/C] ATAATTATGGTTAAGAGAGAGGGGGTGTGAGATATAGCAAAGGAGAAGACTATGCTTTT
2393 CaSNP4430 GATCATCTATTTTGGCACTGCTGCCACCATCGACCACCTAGTTCCAACAAACATCGAC [T/C] ATTACCCTACTTTCGACCATTGTCAATCATACTTCGACCACAATTTAGGACCACCACCAC
2394 CaSNP4431 TTTGATAATATTTTATAAATAATCTTAAATATTTAAGAGTGCAAAGGGAGTCTACTAA [T/C] AATGTTAAATAGTTTTATGGTGTCAATTAATCATAACCATTTAATTTGCCACATTGTGTT
2395 CaSNP4432 GATGTTACACTTGTGCCCTAATGGACGAACTACAATTATTAATGGAGCTACATTGCCTA [C/G] AAGCGGGATGGATTAGAATAAACCTATTAATGACCTAAAACTTAAATCCGTTGAGACTTA
2396 CaSNP4433 ACGTATCGGTATCCGACACCACACATATAGTTACATTCAATCATGATTATTTCTCAA [T/C] TATTACAAATGTCTACGTGTAGTGTGTGCTGATGTCTGTCTGACTTTCATAGCTT

2397 CaSNP4434 GAAAATCGCATAATTAAGTCAATGAGAGGCTAATGATTACCTCTTTAAGAATTATATTTA [T/G] ATAAGAAAATTGCATAATTTTTTGTAAAATCCAATATTAGCAAGCTTATCGCACATGTTG
2398 CaSNP4435 AAACATATGTTGAACATGTGTCTTTTACTCGATCAATGTACTCAAATAATTGACCCCTAC [A/C] CTAACAAAAGTGGTGAAGGTTACCTGATACTTGGAGTCCAAAATCTAGAAGTTCTATAG
2399 CaSNP4436 CCACCAAGTTGGTGGTGAATCCATGATAAAATTTGCTTGTGTCTACTAATTAAGTCT [A/T] ATTGTACTACCTTTGTTTTAGTTAAAATCAACAAGCCATAACCAGTTGTTGAATAAATA
2400 CaSNP4437 ACGGTGGCCAACCATAGTATGTATTGGTGGATGATACACTCTCAAAACACTTTTTAAAGGG [T/C] TTCACCATACATGATTTATGGGAACCAATGTGTCTCAACCATGCATATACACTTTATTG
2401 CaSNP4438 ATTAATTCATGACTGTTGAAAAGTGGTACTTAAGAATCTAGTAGGTGCTTTTTAAAACG [A/C] TAGTATGTTAAGTTGAAAAAGGCAGTCTTACTTTCTAATAGGTGCTTTTTACAATCTCAT
2402 CaSNP4439 TGAGAAGACTTGGCTTGTAGAATTAAGGTGTTTGTATTCCCTCAAAAAGTTTGTAGGTGTC [A/G] GGTGAGTTGAGAAGACTTGACGTGTAGAGCCAAGGTGTTTGTGTCTCAAAAAGTTTG
2403 CaSNP4440 TGGGATGAAGTTGTGCTATCAATTGAAGTAGAAATATCTCCCTAAGAGTATTGATGGA [A/G] GCAAACTAAAGGGTGCAGAACGAGTACAACTCGTTTCAATTAATTGAATCTAATATAA
2404 CaSNP4441 TATCAATAAGCTACAGTTGAATAAGTAAAATTTATTATTTATGATGACTTATTAAGCAA [A/G] TAACTCGTGAATATAAAAAGTTAATCATAACAATTATTAATTCATCCAAAATAAAATTGACA
2405 CaSNP4442 AAATGAATGACCTTATAAAGTATCAATTAATGTGATTGTGAAATTCACGACATTCAGTG [A/G] CTATCCATCTATCACCTTTCTTCAAAGATCTAACTCTTAATTTGAATGAACATTTACACA
2406 CaSNP4443 ATAGAAAATTTACAAAAGGTGTCATGCATGATGATGCAATGGAAATATCATCGAGATTA [A/T] TCATTTTTTATCTAAAAGAAATGGTAAATTTACCCTGAATTAACTCACACAACCTAAGG
2407 CaSNP4444 ATTAGAAAAGAAATACAAGAAAGATTGATGAATGATTCCTGATTAAACTTCTTCAATAGT [A/G] TTAGAAACGGTCTGCTTTGAGTTTCTATGTTATGGCACAAGTCTCCAACTTTCCAATAG
2408 CaSNP4445 TTATTTGTAATGTCATTATAGAATAGACCATACCAAAAATCATACTAAATGAGATTTTAT [T/C] ACATTCACTTATAATTCATCAATACCACATCAATGGTAATTTTTATCGCTTTCACTTATAA
2409 CaSNP4446 TAACTGTTCAAAGTGTGTATAGAAGAGGAATATCCTTGTCCCTTTACTAATGAATTTAA [T/G] ATTTTTAATTATGTGGAACTCACCTTTTTCAAAGCCATGTTGTATGGTGTCTTTAAAAT
2410 CaSNP4447 AATGATTATGCTTTGGATTGTAATTTGTAATTTGATTTGATTTGATTTGTAAGTGGGTG [T/G] GATGTTTCTGGGTGAAACGTTTTACTGTCCATCAGAGAAGACTTGAAGAAATCTGGT
2411 CaSNP4448 AATGATTTTCATCCACAGATGTTGGATCTAATTCAGGGAGTAAGCCAAAAGAGATGTAT [T/C] CTTAAAAGCAGATATTTGCTTTAGGGAATTAATTTGAATTTCCAATCATTTGGAGTTGGAGG
2412 CaSNP4449 CAATATGTTCCAGAATTTGTGTAACCCACCCGATAGTGACTTTAGTGTTCATTAAGCAAT [T/C] TGTGTTTTTCAGGTTGTGTGGAGAAGATTTAACTTGTAGGGTCAAGGTATTTGTTTTCTT
2413 CaSNP4450 GTCTTTGCAATTCACATAGATACATGTGATTCATCTTCTTTGTGGTGGGATAGAGATGT [A/G] TAACTCATGAAATTTTCTTTACCATTACATATACATGTGATCCATTCCTGGTTGTTGGT
2414 CaSNP4451 ATTGATTTTTCATCTTGATTTTTCTATTATAATGTGTACCTCCAAC TAGAAGTACTGATGT [A/T] TAGAACCAATAAGGACTGGTGAATTTACCTAGGGAATGGAAGTTCAACAAGAACCCCA
2415 CaSNP4452 GGGATAAGTTTAAAGAGATATTTCTAGAAAAGTATTTATCCATAGTGTTCACATTTAGA [A/T] GGAACTGAGTTTCATCATCTTTGTCAAGGAGATATGTGAGTTGATGATGTCACCAA
2416 CaSNP4453 TAGGACATAAACTGAATGGAAAGAACTACCTTCAATGGTCAATTAGTGGCAAAGGAAA [A/C] GATCAATATCTTACTGGTGAACAATTGCCCCAAAACAGAAGATCAAACCTACAAAAC
2417 CaSNP4454 CCTATCACTGAGAAGATGCGTGTCAAGAGGTTTCATCAAAGGATTGAGGGATTAGTTATTT [A/T] GATATGTGGTTGGGTCAAATTTGTTCTACTTTTGTGAGGTTTTGAGTTTGACACTTTAGA
2418 CaSNP4455 GACTTACACAAAAGGAGATATATCGATTTACTAGAGTGCAGCTTATATATTTGACATG [C/G] AAATTCATCTATCAAAGGTAAGGCATATACAAATCAAGACATCATTCAGTTATGGAAA
2419 CaSNP4456 AATATCTATAATTTATAATGTGATTTAGACTATATAGATAATCTCTTGTATGAAGCGTTC [A/G] AAGGAACTCCAAGAGACAATCAACAATAATTACTCAATAGTTAACCATATGATTCACTA
2420 CaSNP4457 TTATAATAAATTTAATTAATGATAAATTTATAATAAATTTTACGTGTACACAATGGTAT [T/C] CGTGGACAAATTCATTTGCTATTAAGAATGATGAGAAGAATCTTTTGTGGTGGTTCCT
2421 CaSNP4458 ATATAGCATCAGGATTCAAAATGCAACTCTTAACTCTTCTAGTTTTCGTTTTGAAAACAA [T/C] TTCATTGAGATTTCAACTAAAGACACCACAACAACCTAATTTTTATTACGTATTAGTGCAT
2422 CaSNP4459 GTATCTATGACATACCTTGACAATGACTTTTTGGTGGGTCCATGTTCCAATTTTTTGAC [A/G] CGGCCATGGAGATATCATCTTGGAGCAATACTTATGTGTAGGTGCTGCGGAGAATACC
2423 CaSNP4460 ACCATGAAACGACTATATAGAAGGAAAAAATATAAAAAATGCTAAACCAATCATTCA [A/G] AAGAACTCGCCGATGTTATCTTAAATATCGTTACTATTTTTTATAATATAATATATTTT
2424 CaSNP4461 TAGTATATTAGGAACTCTTATTGGATTATGCATTTCTATCTCACTTTTGTAAAATTGGA [A/T] GTGTGGAATAAGGAAGTTCAACATTTGGTAAACAATGTGTTTTAGTAAATTAAGTGAAG
2425 CaSNP4462 TGTTAACAAGAACATATTATATTGCTCATCTTTAAACATGGACATCTAATGTCTTCGA [T/C] GATAAATATTACTTAAACATATTATTATTAATTTGATAAATATGCTCAAATGAC
2426 CaSNP4463 TGTAGGTGGAACACTCAAAGCATGAACAATAATTTGAATTTGGAATGAGCTGATCGTC [A/C] CCATGGAAGTAGTAGAGATGCAATTTCTTGTGGCACAATCGTCAAACACATTTCTTTT

2427 CaSNP4465 AATACCATCAGTATTCTTCGGAGCAATATAACCAACCATCTTACCAAGTCCCAAACCTTC [A/T] GGATCTTGTGAAATATAGAACTTCTTAGCTTGTCCCTTCCAATACTTAAAACGTTATCCA
2428 CaSNP4466 TTCCTCAATCAAGAAACGAAAGCAATAAGCACATATGCACATTGTCAATATAATTTTGT [T/C] TCACGTTAATGTCTAAGAGAAGTTCTGAAGTAGCAAATTTGTAAACACTTTATGCGAGAGC
2429 CaSNP4467 CGATTAATGTTTTTTACAGAGACAAATAGTATTAATTTCTTTGTTCTATGTATAAATTAT [A/T] AATCAACCCATGCTATACATATGCACATTGAACTAAAAAGTGTTCGAGTAAAAAAGTGAA
2430 CaSNP4468 AACTCTAAAAATAAAATGTTATATTTATAGGAGGAAAACTTAATTAACCTTGATTATGAA [A/G] ACAAATTCATCTTTTTTTGCACTGTGTACTACAATACGCTATTTGTGTCTGTGCGCAA
2431 CaSNP4469 GGTGGCTCGTCAAAGGCTGAAGTTGACGGCGGTGCTTGAAGATTTGTGAAGGATGATAGA [T/G] GTAGTGATGTATGTGTGTCTATTGCTCTACATTTTCTTCTATTTTTTAATTGTTTCT
2432 CaSNP4470 CTAGAGTCAATTTGATATATGTAGTACACAGTCTACATAATATAAATGTTTTACCTTAA [A/G] ATAATGTATGAATTGACTCACCACGCTAACTGCATAAGCCAAATCTAGTCTTTTTGTGTGC
2433 CaSNP4473 ACAGCAAATACGGGAAATATTTACTTCTAAACAATAACACTTTTATGCAAAAAGTAGAG [A/G] TAAATATGCTCTCTATTTACATGTACACAGCATATCAAATGCATTTTTGGTTTGGAAAT
2434 CaSNP4474 TGAAAACAAAAATACATACATACAAATGAAAAATAATTCATTAACCTTTTCATTAATTA [T/C] CAGCACAAAACCTGAATAAGATTAGGCAATTCATATAAAATCAATGTTTTGAAAAATGGAT
2435 CaSNP4475 CAAATAATAACATTACATTATTTCAAATAATATAACATTATTGTTAAATTAGGGCTTCA [A/G] TTTAGTCATTTTTTAATTCGAATTGTATCTCCATTCCTAATTTGGTCAACAATGGTCGT
2436 CaSNP4476 TTTATCTTGTCTACTAACCTAATCTAAAGAGATTGCTCTTCTCAAAGGAGGCATGACT [T/C] CTCAGCTCTCGACGTTCTCAATGGTCTCAATCTCACAAAAATGTAATTCGTGTTCTTCCA
2437 CaSNP4477 TATACAAATCCTCTCTTTTTCTTGAATATCAGCTTAAAAGAATTTCTTTTTCTTCCAA [C/G] AATTATGACTGATATATGAGAATAAGGAATTCATATTTGTAAACAAGAAATGGATAACAT
2438 CaSNP4478 TATTTAACATAAATCAAATAGAGCTCCCATTTAATGAGAGCAATTTTAAAAGAAAGAGA [A/G] TGATATGTAGTATTTCGACAAAAGTAGATTTAAATTTAGAAATTTGGAAAGCATAAAGTTAT
2439 CaSNP4479 AATGATCAAATAGCTGAAGTAATGAATAACATGGCTACTTCTGATGCTGTAAAGACAAC [A/G] CAAAGACTCTACGAGATCTGTAGAATAGGGAAAGAGAGATACGTGTTGCTGCGTCAAGGG
2440 CaSNP4480 TACCATCCCTTCTTTATCTCAACGGTGATAACATCTTTTATCTGTTTTTAGAGCAACAT [T/C] CCTTGAATAAACCAAACCTCATAAACATTCAATTCACGATACCACTTTTTGATTGCTT
2441 CaSNP4481 TGGAGTTATTTCTCAAATCTCTTAGGTTCAATTGGAATAGAAAATGCTGGACTTAAACA [T/C] TTAGCACCAATCAAGTTTCTAACTTAATGAGCTAGACATTCAAAGTCAAATGCCAAGGAT
2442 CaSNP4482 AGAGAGTTAAAAATAGATGTAGGCATAACATTAATGGAAGCTCCTAAATCTAACATAGCA [T/C] TTTCAAATGATTATTGCCATATGGCACAAGGAATGAAAATAGTCTTGGATCTTGCATT
2443 CaSNP4483 GAATTGTAATTGTAAACTGATTTGGTATTGTAATTTGATGAGCCTAATTACTTTTATTTCC [T/C] TTTTTAATATATGTTTCTTTTTGATTTATTTTTAAATAAATTTGGACAAAATTAGGGTAC
2444 CaSNP4484 GTTTGATATAGCGGAACCGGATTAATATTTAGGGAAAACGGAGAAAAGATACATGTTTC [A/G] GTGTTTTCGTTTTTCGGACCGAGGTTGGGAACGTGAAATTTAAAGGGAGGTTGGAGAGA
2445 CaSNP4486 ATATATTATATGATAGAGAAATGTTATTGAAACATAAACTTGACACAAAATATGACATA [A/G] ATACATTACGATATAAAAATACAGTGATGATCATGTTTTATTTGTATTTGTGTCAAATTTT
2446 CaSNP4487 TGCAAATGGACACACAATGACAAGAAAAATCTTGAGGGTTGGTTATTATTGGTTGACCAC [A/G] GAATCTGATTTCTTTGGTTACATAAAGAAATGTCATAAATGTCAAATTTATGCTAATAAA
2447 CaSNP4488 GCGCTGCCATGGCAGGCATCTCTTCAAAAATGCTAACGAGGTTGTGCAAAAATCTGCC [A/G] CGTCATCTGCTAAGGCGTCATTATCATGGCCACCATTTAACAACACTGATTCGGTTTTTC
2448 CaSNP4489 AGGACTAAGGCCAATAGATCATGTTTGTGGCCACTACTAGATGAGATGGATATTTTTTAC [T/C] AACTTATCGCTATTGTTTATCATTATTTATAAAAAAATATGGTGTCCCCTTTTGTA
2449 CaSNP4490 CATGCCCTTATTTCAAAGCCGCCACACCCTGCTTACAATCAACACCTCTAAATGACAATTT [T/C] AGAAAAAGAATACTAATTTGCAAAGAAAAATAGATCAAATAAGAAATAAAAGATTAAG
2450 CaSNP4491 ACATATTTTTTATCATTAGACTTTGAAATTAATTTGGACAAAAAAGACCTTTTGAAG [A/T] TAATATATAAGACCCAAAGAAAAGACCGTGCAAAACATTGATATCCATTAGCCTATTCA
2451 CaSNP4492 GAAGTGTGAAAAACACAATTTTCAAATGGAGAGATTTGAGTAGTGAATATTTATTTGAG [A/G] AAGGCTCCCACAATTTATTTGTTTCAACTAAAGAAAAGTAAGAGTCTTACAACCTGAAAAT
2452 CaSNP4493 AACATTAATAAATAAAGCACTACAAGATTGCATTTGATGTTAAAAGAGATGGGAC [A/G] AATGTTGTTCTGTACAGTGAGTGTGTTAGTGAATTTATGCTTTGATAGTTGTTGGAA
2453 CaSNP4494 ATTATTCAAATTTATGTTGATGACAATATTTTTGGATCTACTAATGGCACTCTTTGTCAA [A/G] AATTTTCTAAATTTGATGAGCTTGAATTTCAAATGAGTATGATGGGAGAACTTAAGTTCT
2454 CaSNP4495 TGGGGCGCACTTCATTTCCGTCTAGAGTTTAGTGCATGTTTCTCTCTTTTGTGTTGCA [A/G] TTTGATTTCCGGTGTCTTCGTGAAGGTTGTAGCTATGGATTATAGCTGTCAATTTGAATTTG
2455 CaSNP4496 CATTAACTTTTGGAGGAAAGTAGAAATGATAGATCATTGGACACAACACTGTTGGTAATG [A/G] CACATCTTCTCCATTAAGATGCTTTGTTTTTAAAGGCTTAAACATATTTATTAAGT
2456 CaSNP4497 GAAAGACATTTCTACAAATAAAATAAACTAAAGCTATATGCATAACTGAATTGAAAGGT [T/C] TTGTACATGTTTTGCGAGGTATGAATATGAATTTATTGAAAAGATTGTAGAAGATGTTAA

2457 CaSNP4498 TGTTTAGAAAAAGATGTGTTAAACCAAGCCGATCTACAAAATTTGATAGAAACCAACCAA [T/C] ATGTACAAATTAGAAACAAACAAAATAGAGCCGTGACCGTGACGGTGGTCGGAGAACGAA
2458 CaSNP4499 AACTTTCCATTTTTGGATGGTTATTTACCACAAGAATATTATATGACACAACAAATCA [A/G] TAAAGACTTCATCGGGACAATCAGTCTGATTCTTTGGATGATTTATTTACCCGAAGAATTT
2459 CaSNP4500 AGGTTGTTAGATGAAGATTGATGTGGTAGCAGCGACAACGAGGTTGCTCTTTGAAGATTG [T/C] AGCGACGACAACAATGAGCTGCGACGGTGGCGAGGTTGCTTTGTTGAAGGAAGGTTGCTCG
2460 CaSNP4501 TACTTTATAATATGTATCAATCAAACCTTTGAGAACACATATAATTCATTAATAATCAAATAT [T/C] CAATTGGGCTCAAGGTGAAAATGATTCTTCTACCACACTTCCCTCTCGACATCCTCAAGA
2461 CaSNP4502 AGTTTATGTCACCTAAGAAATTAGGGCAAGAATAATAAAGAGAATTCGATAATAATTCAT [A/T] AAGGAATTCAGTAAATAGGATCAAATTAGACCCCAAGGTTGGATTGGAAGTGAAGTCAAT
2462 CaSNP4503 AATCCTAGAACATGCGTACACTATCATATGCTTGAAACAAATTAGTTAGCATTACACA [A/G] TGCAACAAACACATACACTTTTAGAGGACTTTTCGGATTGTAATAGGGCTTAGGTAACAGT
2463 CaSNP4504 ATCAACATAACATATCACCTAACCCCTATAATCAAGAAGACCTTCGCTACAAGGAAC [C/G] ACCACCTTAGTCAAATATTGACTCTGATACCCTATTGTGTTGAAGTTGATTGAAATAA
2464 CaSNP4505 CACTAACTAAGAAGAACACATGGTTATTTTCGCTACAACCTTTGTTCAATATATCCAATGT [T/C] ATCAAGATGAGACTAATGTTTCTTAAGAAGTGCATTGACCTTGTGGTGATACCAGAATG
2465 CaSNP4506 ACTATGACTATCCTGTGGAATAGTTTTAATGGAATATTTAATTAATGAGGTTATTATGC [A/C] GTTGATCTAACATGTTAATATCCCTTTTTGCAGGGTGATGTTGAAGCTTGTACTTGG
2466 CaSNP4507 GTTCTCATGAACAATCTTTGAAATATCCAGAATTGTGAGAAGCCACATTGACCAAGATTGA [A/T] GACTACTTTTTGTTCTTCCCTTATCTGTGTTGTAATAACTTTGAAACGAAACGAAAGC
2467 CaSNP4508 TAGGAATTTCCCTTCCGAGTACCTCCAATGTCTAACAACTTACCTCAAGGATTAAGAAT [A/T] GACTACCATGATCAGACTCATTAGCTGTACTTCCCCGAAATGACTAGGCTTGTGACAGC
2468 CaSNP4509 AACAGCTATAAGCCAAGCCAAGAATCTTGAATCACTTCCCTTAGAAGACTTATTGGAAC [A/T] TTAAGAGAACATGAAGTACTTCTACAAGAGACAAACCAATCAAGAAGGGAAAGACAATA
2469 CaSNP4510 AAATCTAAATAAATCAATTAGATCTTAAGCTTTAGTTCATTTAATCAGATTAGACATTGG [A/C] TTGATATTTTTAAAGATGAAAGTCCAATCCGAATCGAATCACGTAATATTTCAATCTT
2470 CaSNP4511 ACAATCTATCTTAGAAGCAATATGATCTAATGCATTAACCTCATACTTCTGCTTTCTT [T/C] TAAGGAGATCGATCACTTGACCATCGGCAGTGGTCTATATGTGCTACAATTAGAGCA
2471 CaSNP4512 CAAGTCTCCCAACAAGCATCTAAAATAGGCCTCTCAACAAACACCCAAACAACCTTTTA [A/G] CAAGCACCTAAACAAGCCTCTCAGCAAGCCCTATGATGAGTGAAGTTAGAAAATATTTG
2472 CaSNP4513 TGGAGTTGTTTGGCTTATGTTAGAATCCCCGATCCGACGAATTAAACTCGCCAGTAGAGC [T/C] TGTGAATGTGTATTATTGGGTATGAAGTAAAGAATCGTATAGGTTTTATGACCTAAAT
2473 CaSNP4514 AATGCCGAAAGACTGTTGTTCTGGAACACCAAAAAGTCTCACATTGTTTGAAGTTGAGG [T/C] TAAAGATAATTTATAAACACCCACTTTCATCAACTCAGTGAGGTTCTTTTTAAGACCGAA
2474 CaSNP4515 TCACTTTTATACACTCAACTACTCTATACACCATTCTCAAATTTCTCAACACTTAGAAT [A/G] CTTGAAACACAAACACTTTCACATTCACCTAATCATGTATACATGCGTATAACTAATTTA
2475 CaSNP4516 TGTTCTTGCAACGCTTGCTCCCAATGTCATTCAAAGCTCTACCAAACTATTTGGAACA [C/G] AGTTACATTGTTTAGTCAATTTCTTTGAGAGCTTACTTCTGCTTTACTAAAATAGGATAA
2476 CaSNP4517 GAATAATAAATAAATATTAATAAGCATTTTTAAGAAAATTATACGAATTGGTGGAATAAC [T/C] ACAATTCATTCATTCATAAGATTCAATCTGGTTAAGATTGTTAATAATCCTATTGGC
2477 CaSNP4518 TAATTATTTTGTCAATTTAGGATTAGCAGTAATTTGATTGTTTACAATGCAGTTGGGTACT [T/C] TTGGAGACTCTTGACAAAGTGTACCTGGGATTGTTAATTGGAAGATTGCAAACAAGCCT
2478 CaSNP4519 ATTCAAACGTACGTAGTATCTAATTAATAAATTTTATCCATCAATGTTAGGATGGATT [T/C] ATATCACTACATGTAATAATGAAGGTTGTGATAGGTTGGAGGTGCTCATCCCACACACAT
2479 CaSNP4520 CTTTTTGTTTAATGAATTTGTTTCGATCTTTTGTAAACATAAAAAGATCATCATCAAG [T/G] CAATGCTTTGTATATATTATATATGTTCTCTTCTGCTTTATCTGATCAAGGCGTTATCAA
2480 CaSNP4521 CTTCTCTTAAAATTAATCATCTATGTAGTTAATAAAGAGCACATATATGAAATTTCTGAAA [T/C] ATGATGAGCTGGTGGGGTGTGATCAACATCTACATTAAGTGATGTAATAACTTTATTT
2481 CaSNP4522 CTTCAAGCACAACACTAGTGTATTGCTTCTTCTCATATGTGTTTCATCATGTGAGGCAATTT [T/C] AGATTGTAAGGTGTGGGTACGTGCCTTTTACCATGTCTAAGCTACCTCTTCGATAATAA
2482 CaSNP4523 TGGTGACAAGTGTATAGAAGTATGTTCTCATGTACGATTATGAGGCTGATGATCA [A/G] TTTAAGAAGCAACTGACCTTAGCACAACGGTTTGGAGGATGAGCAGAGTAGAGAAGTTCAT
2483 CaSNP4524 TACCTATGGATAGAAGCATTGTTGATGTTGCTAAGGGGGAACTTGTGATAGGACCC [A/C] AGAAGCGGCAAACTTTGATTTAGAACATGTCAATTAATTTCTCAACAGTTTACAACATAA
2484 CaSNP4525 GAACCAACCAATAAAAAGATCAGCTTGTATGATACAATCCTTCTTATGCAATGATTTGG [A/G] TGATACATATCACAGATAAAGATTAAGTAAAGTAACTAGGAATATGATTTGAGATCAAAATCAATAAAA
2485 CaSNP4527 TCTCCAATTATAGCACATAAACTCATATTTCTTCAACTACCTCATCTACTTTTAAACACCT [A/G] TACCGTACACGATTACATACACTCACACTACTATACTCTACATGGTCAAATCACAAGTT
2486 CaSNP4528 CTCAAAAATTTATAATATTTTTGAATATGTCATTTGAACGTTTGATATCAAATCAATGG [A/T] TGAGATTATTTACTGCATATAACTGTTTTTTAACACGAAATCAAATCCATGTATCGTAT

2487 CaSNP4529 GGTGAAGCTATAGCAGAAGTGTAGGAGCATTTCCTGATTTGTTTCAAGATCCAAAAGGA [C/G] TGCCATCCAACAGGAGGCATGACCACACGCCATACTATTCATCATGGGGCAAACGGAGGA
2488 CaSNP4530 CTTCAAATTTTTTTGTAGACGATGTAATGAAGTCACATGAATCATTTTGAGATTATCAACT [C/G] GATTTAACTAACGAAAATGGAAACATGCCAAGTCCAAGTATTTATATCAAACATAGCAC
2489 CaSNP4531 CATAACAATACATATGAATTTATTTGATTTATCTAATGATTTGAATTGAGAAACATTTTCAGG [A/C] AAATAATCAAACACTACACACTTGGACAAAACCTGGAACCAAGCAATCAAGCAAAGATG
2490 CaSNP4532 GCTTGTCCCTCAACATATCTAGGAGAAGGTTTACAACAATCTACACATAAATGTGTGAAAT [T/G] CTCATAGATCCAAGCCTAAACATATATAATAACATGTCATTTAGTTTAGAATTAATAATAT
2491 CaSNP4533 AATAATTAATTAGATATTTCCGGTGTATAAATGTTATATATTTCTTGCTTTTATTCCTTTTG [A/G] AAAGAGATGATGATGGTTAGCTATTGTCTCGCTAGAAAAGTGAGCCGCTGGCGAGGTACAG
2492 CaSNP4534 AACCCCTACCAGGTGAAAATACTGAAAATAATGGGAGCAAAATCAACCTAAGTCACATAA [A/G] AGTAAAGATAGTAACTAGCAGCTATATCCAAAAAATAGTTACATTTAGTTTCTCCCAT
2493 CaSNP4535 TAACTATGGTGAAGGGTATTGATATTATTAATTCATTTCAATAAATGGATCTTCT [A/G] CTAGTTGTACGGTGCAGTCAGCTGTAGACTTTTTATCTCTCAGCTAATGCTGACTGCAT
2494 CaSNP4536 TTAACACACTATTTCATCCAAGGTTGTTCTCCCTCTCTACTTAATTCATAGTACTCTTTGG [T/C] CTCTTCATACCTTTTCTGAAATGGATTTGGCACCATATCTTCATTCGGATCAATGTTTAC
2495 CaSNP4537 AACTTTCCCTAATAAAAAATAAACATTATGCATTGACATATGTTGCTTGAATTTATCATT [A/G] TGTTGCAAAGTTGACTGCTAAACCGATTTTGTGGCAATGCATTGAAATGCATATTATAT
2496 CaSNP4538 GGTGAGAGATATCTTTCACTTATAAATATATTTTTTAGGCCATAAATATCTAATGCGAT [A/G] AATCATTTTTAGTAACTTGAATTTGAATCTTGGTTATAATAACTTCTTATTATATTTAGT
2497 CaSNP4539 GTAAAGGAATCGAGACCGTTGACACCGAATTAACGGTGGGAGAACTCTGAAATATTAAT [A/G] TTGTTGTTATGGTTGATGGTCAAGAATGTATACATGTTGTTAAGAAATCTTTGAACTTGG
2498 CaSNP4540 GGAAAATTTTCAACAGAGTCTTCTAATCCAATACCTTAAAATGTAGCGAAATTTTTACTC [T/C] ATACTCTTCACATTTAATCTTTATCTTACAAATGTAAGCAAATATCTTTTTGCTCTCA
2499 CaSNP4541 GAAAGAATAACAATTTCCGGTCAATTGCATGACTTGGAGAGTAATAGATTTACCAACTTC [A/G] TATGTAATCTTGTTCATGCAATCGTTTGTGTATACTCGACCATAAGCTAAATGATGTCTG
2500 CaSNP4542 ACTAGCTCATGATCTTAGGGGGACCGCATTTTTTATCCCTCCGACATGTTGCTTCCATCA [T/C] GATTCCCTGATAAGCAAATCTATGAGAAGGTGAGAATGTCACCTAAACAGGGTGAAGAA
2501 CaSNP4543 CCCTTACCCACAAATCCAGATTTTGAGGTTTGAGAAAAGATGCAACAACATGGTCATCTCT [T/C] GGATAACAAAACCATATCTCCCCATATATCGCAGAGCGCCATCTGCATTGATTCATCAT
2502 CaSNP4544 TTCTCACATTTACTCAACCTGTTCTTGTGTTCCATCTTGCTTTTCCCTTTTGGTTAGATTGT [C/G] TGTGAGAACTTATGGAAACACTGATATATTCATAACTTGTPTTCCGCTTACTTTTCGTAAG
2503 CaSNP4546 AAAAATTAGAGGATACAAGAAAATCAGAAGAAATGAAAAAATTTCAAATGATGAATCTA [A/G] TCAAGTCAGAAAATAGTCAAGATAAGTCAAGAAAAGATTTGGATGGAAGTACCATTCCATA
2504 CaSNP4547 AATAAAATCAAATTTTAATCTGAACAGTTAATTTATTTTATATATAACTAATGGTCAAG [A/T] TTAATTTGTTGGTGTTCGCTTAATCAACTATATATGGTCACTGAAATGATTAATCCAACCA
2505 CaSNP4548 TGGGTCTCGTGATTATGGGCCTAAGGGATCCGGGTTAGGTTTTTCTTATAGATCTAATC [C/G] TACTTCCGGATCTGGGTTAACTCACTCGGGTCGAGCGGAAACAGTGATTGGATCGTCTG
2506 CaSNP4549 ACCGCGGCTATTGCAAAAATGAGAATCGTTATTATAACGGTAAGAGACGACAAATACGT [T/C] GTAAGCATATCACAATAGATAATTTCTTTCTAAAGGAGCTGTTATTGTGGATCATGTAC
2507 CaSNP4550 GGTATGTTATAGATACAATCATCCCAAAACAAAATAAGTACAACCACAAAAGAGAGACA [T/C] TAAATCCCTATACAACAAAAAACTAATATGATCATCCACAAAATACTATAGTAACAACAG
2508 CaSNP4551 TTTTAAAGCTGTCTCTCCTCAGCCATCGCTTTCAGTCCATCTAGGATCTGCTAAAGCTTC [A/C] TGTACATTACTAGGAATAGAAAATGAGGATAATGATATACAAATATATGCATATATATGA
2509 CaSNP4552 CAATAGATACCCATAAAAAAGTTATGCCAAGATTACATGTCATTACTTTTACTTAGGTCGA [A/G] TGGTGGACTGTAGAACTCCCCCTAATATGAATTCCTAATAGATTGACAAATATCATCCAA
2510 CaSNP4553 TGACCCGCTATTTAAAATTATTACAAAAGCTAGATTATGAAATCTACAATTTAGGCTCA [A/G] TAAAGTTCGGAGTTGGTCTTTTCTTCCAACACAAAAGTTGTAGCTCTGATTTTGTAGCTTT
2511 CaSNP4554 TTGTATGTCATACAATGTGAAGAGATTAATGCGAAAAGGTAATGGTTTGTATGATAGTT [T/G] GTCACACATATGAAGAATACAAAAGGTAATCGGATGCTGGTGAAGTCACTGACTTGTAC
2512 CaSNP4555 GTTGTGCCATATCTTCTGAGTTTTTGTGATATGAAAGCTAGCTCCTCATCATCTGAGTT [C/G] AAATCTGATCATCTGAATCATTATCTCTAATCTACTATTGCCTTTAAAACCATATTT
2513 CaSNP4556 GCATAACCGAGTACACAAGTACATACGTTTACAGCTTATAATATGCTCTCACTGATATTA [A/G] CCAAAAGTAATATTCCTTCCATTCTTTCTTAAAAACAAATGGAGAAGAAAAATGACTTT
2514 CaSNP4557 AGTGGGTTGTGGCCACACAAATTCACAAATGTAATTTTATACGAGTTCGAGCAGTCGTGT [T/C] CATGTAAGAAAAATAGACATACGATTATCTGAATCTGATCAATTTTTTTATGATGAATCT
2515 CaSNP4558 ATCTCTACCTTTATTAATAATGATATATCTTTTACTTTTCAATGTTTATACTAACAACATA [C/G] TTCTGAAAAATATCATACTCAACCATATTTAGTACAGTTCACCTGAAAGTAAATCCCTC
2516 CaSNP4559 ATAGTGGCTTTGAAGATTCAGTTTTAGATATCGAACCCATTTCCGGTTCCTGAAGAACAAA [T/C] CTTTGAGCTTGTTCACATTTGAGGCAGTAAAGTCCCAAGAAAGTCCCAAAAAACATCG

2517	CaSNP4560	TTGTATGCCTACACATAAGGATGTAATCTTTGGTTCCATGAAGGTATCTCAACACTTTCT [A/T] TGCAACTTTCTAGTGGTCAATACATGGATTACTCTGACATCTTCTTAAGATTCCAACAAC
2518	CaSNP4561	ATGAAAAATCACCTTTACCATGCAAGTTTCTCACAATTTTGGTGGTCGTGGTTATTCCT [T/C] TTCTTCAAATCGAGGTGCGGGCAGAGGCTTTGGTAGTGGCCATGGTTCAAATTTTGTAC
2519	CaSNP4562	ACATTCTAATATTGCATTTTTCCCTTTAATCCATCGTTGACCACAATATTTAAATGT [T/G] CGTACAACACCCAACATGCATGTGATCTTCTTTAATGGATGTCAATTCCAATCTCCAT
2520	CaSNP4563	TGTCCTTAGAGATATTGGTTGCATGTTCTTAATATCTGTTTCATGATTTGTATATTTAAGT [A/T] TTGAGATAGTCTATTTGATTTCAGTATCATTGATTATTAATATTGCATGTTAGGTGTTTG
2521	CaSNP4564	AAACCATATTAACACGGTTGTAACCTGGTCTATTAGTGGTTCTGCTCTAAACAACCTG [A/G] CCGTACTAAGCTAGACGATTGAAAAGACTTGAACACTACAAGTTTACTAGAAAGATGTTT
2522	CaSNP4565	CTTTTCAGATATGGTCGTATTTAAATCAGCATCGGATTTTAGTCCACTGATTCATTAC [A/G] AGCTCAGAAAGTTCCAATGCTGAGTAAACTTCTTTTATGGTAAGAGTCATGTAGTCACCA
2523	CaSNP4567	AGCCGTACGACACGCTTTAAAGACATAGGTACGCTTATCATGTTGCTAGTTCAAAATG [A/G] AAAGCCTTGCTGCTTTCGTAATCTGTATCTTCTTCCATTATCTCAACTGTTTGTATTT
2524	CaSNP4568	GTCGTTGTAGAAAGTAACTCCGCCAGAAACAGTGAAACTCTCTCCATCTTTTCTTTTT [A/G] AATTATTCTTCATATTTTTCTTCCCTCTCTGTAGCACGCGAGGATGCGATTCCACCGC
2525	CaSNP4569	AATATGTTTTAAAGAAGTAAAGAAAAATGACCAAATTCATTCACAACCTTGATGCTTA [T/C] GAAGTGAGATCATAAAATGAAATCAAATGAAGTAGAAGTAATTAATATCAAAGGAAGAT
2526	CaSNP4570	ATTTATATGTATTTTTTATTTTTAAATAAGTGCATAATATCAGCTTCACTGTCTTAGTTA [T/C] GTGATTAGACATCTTAAACTAAGAATATTTAGATGTGTTTAGGCTACTGTGTTAAAGAA
2527	CaSNP4571	TAACTGTTATCGTTGCTTTGCAGTTTGAGGGCTCTACAAGCAATGTGATCGAGAAACCA [C/G] AGTAACCGTTTTCTATAAATAACAACCTTAACCGATGGCTTACAGCTCGGTGTTAAATGTAA
2528	CaSNP4572	TTTGATATATCAGATTATGCAATGAGATGTTTTCAGTTGTTTGGACTTGGTAATGATAATAC [T/C] TTTATGTTTTTAAAGTTTTCAATATGTTAAATATATTTTATGTAACTTTTAACTACTGAT
2529	CaSNP4573	TATGTCTCAGCCCTGGCAAATAACTGTGAGATATAAGACCATAGATACGGAGCACATAG [T/C] TCATCCTGGGTAAATAAATTTGTGGAACACATGGCTTATCTCATACATATGAATCATCTTAG
2530	CaSNP4574	CTTAACCAAGATGAAAAATAACAATTTCAACAATAGTGATATACTTCAACAAATCTT [A/C] TGTCTCAACCTCCTTATGTGACCACTGATCAACCAATTTCCATTACCTTTTTCTCCAAAT
2531	CaSNP4575	AAAGTGCATCAGCTACCACATTTACTTGTGTTTGTGATGACATATGGAAATTTCTAA [A/G] AATCAACTCACTTTGCATGTCTCTTATTTAGCTTACATTTATCTTTTAGATACTTTAAG
2532	CaSNP4577	CTAATTCCTACAAAAATCAACATGCAAGTGATTTTGACAAAGTTACACTTTTTAGTTT [T/C] AACAAAAATCTCGATTAAATCGTGATTTGGCCAAATTCATGATAGGAAAAATCAAGGAAC
2533	CaSNP4578	ACTTACAGACCTTGCTCTTGTCCATGAATTACGAAACCTTCAGGTTTTCTATATAAA [T/C] TTCTTCTCCAAGTACCATTTAAAAAGGTTGTTTTAACATCCATCTGGTGTATCACCAG
2534	CaSNP4579	ATAGAATCTTATGTTGTGTTGAGAAGACTTGACTTGTAGGGTCAAATGGGTAGTTTGCC [T/C] TAACAATCAGCAGGTTTCAGGTTGTGTAGCGAAGACTTGACTTGTAGGATCATGGTGTGG
2535	CaSNP4580	AATGAGATAAGAAAGACAAAAATCAATTTATTTACCAGGATGGAACACTTATAAATATA [C/G] TCCTTGAAGATGAAACATTTTAAAGAGTTTTCATCTATTTGGTGAACCTTTAAATAATC
2536	CaSNP4581	CGTGATGAACTAACTTGTACTTTGTGATTATGTCAGATGTCTGATTTGAGTGCATGCTTT [T/C] CAGTCACGTTCTTTGATCAACTCTTGGTATAAAATCTCCATCTGTAATGATGCGCCACAT
2537	CaSNP4582	GTTATTGACAAAAAGTAAATAAGCTTTAGAAACATATTGCGTCCGGTTTTATTATACAAAA [T/C] GTACACCTTCTTGATCATTAGTACTTAAAAATGTTGGTATAAGGTGTCCTTATCCCACG
2538	CaSNP4583	TCTGACATAATTATCTAATATGTTGACGTGGAGAGAAGGAGGTTAATAGAAAAATTATG [T/C] CCAATAATTGAGGCCTGACACGCCATAGCATGTCAAGGAGTAGTTAATAGGACAAGTGTA
2539	CaSNP4585	TAAAAATGGGGTGTACACTGTGGTATCAGAGCCACGATTTATAGTTCTTTGGGGGGCT [A/G] TGATTTGGGTATCCTAAGCTGATCAAGAGTCGGGTTTAGGGGTATCAAGTAACTGGAGTC
2540	CaSNP4586	TGGTGTGTATGGTTTCTTACAGTTCTCACACGATGGACACTCTTCTTGGCATAGGAC [A/G] AGCCTGAGGTCGTTTTGCTGTGCTGCTGAAATTTCTGCAACAGAGACAAAAATAGATTC
2541	CaSNP4587	AGTGAGGCTTTAACACTACATCTCCCTCTAAAAATCACAAGGTAATGAATATATGAGCCAT [A/C] ACTCTAATACATCCAACATTTTCATCAATTTCTTTGTGATGTGTACTAATCTTCCGCTCT
2542	CaSNP4588	GTAATTTTATAATTAATAAATGGTAAATGAATTTTAGTATCTTACAGTATTAATCTA [T/C] ACGACGATTTCTGCACATACTAATGAATACCATTTTGTAGTTAATTCATGTAATACGAA
2543	CaSNP4589	CCATGGAATTTGAATCTAATTTGTATGTCATCCCTACATGCAAGTGAGACCTGGATTACC [C/G] TAAACTTCCAAAAATATATTTTATACCCAATATGTTTTGAACCTTAAACCATCTGAGTT
2544	CaSNP4590	TAAAGATAAAATAAAATGTTATAACTAAATAAATATTAATAAATTTTAGTGTAATAA [T/C] AAGTACTCTATTTTCATTCATGCACAGGAGTAGATAAGGTTTTTTTTGTCAATTTATTTAT
2545	CaSNP4591	AAATTCATTTGAGTACTCACACGATGTTTATGCTTTGACTTAGTGGACGAAGAATTTT [T/C] TATTCTTTGATGATTATTGGTTTTAGTGTTCAAACATATACAATAAGTTCTTTCAAATG
2546	CaSNP4592	AGTAGTGACAACCTCTATCTTGGCACTTCTGATGAGGTTTGTGTTGTTGAATCACATAT [C/G] TTGTATTCACTGCATTAATCATGGTTATCTCTTCATATTAACCTTGGCAAGTTAAAGTT

2547 CaSNP4593 TACATCCCGTCCCTACACTTAGAAGGCTTAACTACTAATTTAAATGCTTGAATTACACA [T/G] CACATGACCCTACACATCAATCTTCTCAAACCAACCTAACACCTACATACTTTTAAGGAA
2548 CaSNP4594 TTATGTCAATGGTTAAAAGTAGAGGATAACTACCATAAGAGAATAACAGACGATTTGACTT [A/C] TGTCTATTGAGAGACAGTGAATGTTGAAGTGATGGCTTTTCTAATAGTGATCACTATTAG
2549 CaSNP4595 TAAATATAACTAAGAATGTGGCCTAGCTTAACTTGGTAAATTCAGTTAGAGGAAATATC [A/T] ACAAATAAAATTTTCATCACCAAAGCTTCATTTGGTAGTAGCTCTGAAAAACATAAAAACAAT
2550 CaSNP4596 AGCGATTGCACTCTAAAAATCGTGATGATATGTGAGCAATTGCATGCTAGTAAATCATG [T/C] TGATCTGTGAGAGATTGCACCTTGGTAATAAGTACTGGTATGTGAGAGGTTGTACAATTA
2551 CaSNP4597 CATTATGACCACAAACAACAAAAATCATCATTATGAAAAAATAGGGTAAGTCAACG [T/C] TAATATAATAATGTCTAAAAAATGTACCACACAGTAAATCAGCAGAGAAGTTGTATGCA
2552 CaSNP4599 TGATGAGCATGGTATCGGGAATGCAGCTGGGACAAGTTCAGTCTTCCAATCCTTCAATGA [T/C] GGACCGCAATGCTAAATCGACAGTTCACCTTTTCTGGGACTTGGATACAAATGATGAT
2553 CaSNP4600 TTCAAAAGGCAAAACTAATTAATCCCTATCTCATCGTTACTTGTGTAGTATTTTTATTTTA [A/G] TTTATCTTTTATCGCAATACACAAAGAAGTAAATGAAGAAATAATGATCATTAAAATGAT
2554 CaSNP4601 TGTGCCAAAATAAATTTATGTGCTATATTTTTATCAACTTAATTTTAAATTTGTTAACAA [T/C] TCTCTCTATTTTTTTCAGATAAATAGCTACTTAATTTTTATTTTGTAAATAATTTTCTCTT
2555 CaSNP4602 AAAAGTTTTGAACAAGATCTTTTTTGAATAATGATTCTTAGCCAATCTTTATTTTTGA [A/G] TCCAATTTGAGTAGTTATTATAGATTGATTATGTAACAGACCCGACTATTATCGTTATCGA
2556 CaSNP4603 TGATTTATAGTTATATATATTTCTAATTACTCATGAATATCAATGTTTATCATTGTTCTTA [A/G] TGCTTGTCTTAATGTTTATCTATGAAATCTAAACTCTGGGAATAGATTTAGGTATAATA
2557 CaSNP4604 TCCAAATTACCTTTGGTTATGTTCTTTTGTTCCTTTTTTATCCATGCATCTTTAGGTACG [T/C] ATACTATATATATACTCTTTTAAATATTTTCCAATGTCTAGTTACTAATGCAATTTTAA
2558 CaSNP4605 CAACAAAACCCCTCCTCAAAGGGCGTAAATCATAAGTGTACCGCTATCACATGCCTTA [A/G] CACTAATTACCGAGGTGCAGTCTCTACATGCTATCACGATTTACTAGAGTGTAGCCTATC
2559 CaSNP4606 TTAAGGAGATATCAAATCGAGCTAAGAAAAATTTGTCTTCTTAAAAGAGGAGCTCTCC [A/G] TACTGGTGGATCTATATCCATTGCTGAACATACCTTTTCAGATGGTACACTTTCTATATCA
2560 CaSNP4607 GTGATGCAAGTTTGCATGCATATGGAACATATTAATATTAATGGTTATTTATGGGATTTG [T/G] TGAACAGGGTAAAGTTATAAGTGCAACTATAAACAAAAATAAGGAGAAAAACCCTAGCAGC
2561 CaSNP4608 TCCAAGATGGCTATTCGGGATATAATCAAATAGTTGTGGCACTCGAGGATCAAGAGAAAA [T/C] TGCACTCACATGTCTGTATGGGGTGTGTTGCTTATCAGCGAATGCCGTTTGGGCTGTGCAA
2562 CaSNP4609 GAGATTGTGAAAAGTATAACATCTTCAATAGGGTGTGATGATTCTTTGGAGCTTGA [A/C] GTTCTAATCATTTGAAAGATCGAAGAAGATATCATATACAAAGATCGAAGAAGATAGCATA
2563 CaSNP4610 CTATAAAGTAGCAAATATTTCTAACATAATAATTCAAAGAAGTGCATTGTGTAACATTCC [A/G] TTTTTTCGATACATTAACATAATGAAATTTTAAACGTAAAAATACATATTCGTTTTTTATTT
2564 CaSNP4611 CAGATGACCAAACTCTGGTGCCACAACCACTATTCCCTCTGATGTCTGCAGCAAGACA [A/C] TGATTTTCATTGATCTGGATCTCAATCTTGAAGGTTATGTTCTTGGACAGTGGTGCCTTC
2565 CaSNP4613 TCCGTTGTTGTCCAATATTCACGACGTGTTTCACGTGTCGCCACTAAGAAAAATACATTT [A/G] GATCCGCCACATGTGATCAAACCAGACACCATTCAACTAAAGGATAAATTGTCTATTCGAA
2566 CaSNP4615 CCCCTGACGGGACGGGGAGAAGTAGGAGGTTGGATAATGTAGATAACCTATCTATAGAGA [T/C] CAAAGATGGTAATGACTCATTTCATTTATGTTTTGATGTGTACCGCCATAAAAGCCCTCC
2567 CaSNP4616 ACATAACAATACAAAATAAACATTTAAGGAACCTTGACAACCTTCTATCTGTACTATAT [T/C] TGGTGTATATGGATAACATAAATAAGATAAAAATAAAATTTATTATATTGTAATTTTAAAT
2568 CaSNP4617 GGAACACACAAAATAATAATGTAAGAACTTCAAGATCGGATATCCAACCTCCAAATGGCA [A/G] CCAAAATTTGTCAAAAAATTCATCATAGTTCCCACTTCAAAGCACTACTTTCAACCATG
2569 CaSNP4618 TGGTCAAGACTTATAACCAGATGGGAAAGGGCCGATAAATCCTAAGGGATTGCAATATTAC [A/G] ACAACATTATCAATGAACATAACAAACCAAGGTAAGCCAAGGTTCTTTTGTAAACCAGAAG
2570 CaSNP4619 CATTGATGATAATTGGAGTGTGGTTTGGAAAGATGAGATTCAACATTGGAATGAACGTCA [T/G] AATTACATATTGCAATGTCAGTACGTCGAAGGTGTTTTATACCACACTAACGAATATATG
2571 CaSNP4620 GGTTTTATAGTTTACAAAATTTGAACATTTAAATGATGAGTAGAATTTCTTTAGAAACTAA [C/G] AAGTGATTTTGTAGTACTAAACCAATAACTCGTAAATTTGATTTATTTGCTTTTGGTTTATA
2572 CaSNP4621 GTTTTAGCTACAATCCTCGGGTTGATGTTTTGATGATAAAAAAACAACAGATAAAGAA [T/C] AACTATCCCTAAGTATTTGTTGAGGGTGCATATGGGTTATATTAATTTATTTCCATTC
2573 CaSNP4622 TCTAAGCACTTAAAGAAAAAGCAACGGGAGAAAAAGAAAACCTGTTTGTGATGATTCCTAGAA [A/G] GAGCTAGGTTTTGCAAGCTTCATCCAATAAAGTTTCAACTTTTTTAGGGCATCCCTTC
2574 CaSNP4624 ATTACCTCTTTTTGTCTTTTCTTTTAGCATCCATTTGTTTCCAGCTCCATATATTATC [T/C] TTAATCATCACATTACTCCCTCATTAACAAGAACCTTGTCTCAAGGTTAGGATAATTA
2575 CaSNP4625 GACTTACCTTTGTTGAGCTGAATGATAGACTTGGAGAAGTAAATAAGATGTATGTATCAG [T/C] TGAATCTTGTGGGAGAGAAGGGTTTAGAGAAAACCTCGAGGAGCAAGGGTTTTATAACTAA
2576 CaSNP4626 TGAGCTGTACGAGGTACAAAGATGACAAGTACGATGATGGATCTATAGTCAACATCATTC [T/G] CAAAAGTTGAAAATGACCTAGCACTTCAGCTTACAGAAAGGTTGTAGCCACAAAGTTCGA

2577 CaSNP4627 TACTTGTATTCCTAAGAAAAATAATTGTTGGATTGCTGAGAAGACCAAATGTATGTTGAA [A/G] ACTAGTGAGACTAGTAATGAATACATGTTGAAGAGCATGTTGAGGCTACATTAACAATA
2578 CaSNP4628 TGCGATATCATACCAACCAAAATCGGATGTGCGGTGCGAAGCCAGACAACACATGGAAGA [T/G] GTTGGCCAGTCGGCATTGGTGAATAAGGGGAATGGAATGGAACCCAATCATCCGGCGGCA
2579 CaSNP4629 ACACCTTGTGGGATTCATCCTTACTTAAGAAATTTTACCATGTCCACCTAGTGTAAATAAC [A/T] ACTATAACAAAACCATATTTATTTTCACTTAGAGATGTTGTTTCACTGGCCCAAAGAGA
2580 CaSNP4630 CAATGAGTGACATCTAGCAACCTATCACTGTTACCAATTAATGAGAAAAATCGGTGATAC [T/G] ATTTTACCAATGTTGACTGTGTAATAATTGTGCGTTCATCCAAGATCTTAATTGAACCTC
2581 CaSNP4631 CTACTTTGTACATTTCTAAAAATGCAATCGAGATGAAAGTAATATAATTGAGGATTATGC [T/C] GATAGAATAATAATGATGGAGATGATTTTAAATATGTGGAGTTTAAATTTTGGAAAAATA
2582 CaSNP4632 TCATACATAGAAGTGCAACATCTATGAAGTTAATACAAAATAAAAATTTATGTGTATTTGA [A/C] TAGAAGACGAGATGATTCAAATGTTTCATATAGACATATTTTGGACCCATCATGATTTGAT
2583 CaSNP4633 GATGGTAGTGAATAAGAATAGTAATTTATGTGAGAACCAAATATAGATGCTATATTGAGA [T/C] ATATCTACGATAAATATATCAACAACCACTTTAAATCAGATTCATAATATTCATTGA
2584 CaSNP4634 TCACCGTCATCTTCGAGAATAATAATAATAATAAAGTCTATTGCTATCAACACCCCT [T/C] TAGATAATAATAATTTTGACAAGGTTTTGAAAAGTATCAAGGGTCTTCTCAGGATAGTT
2585 CaSNP4635 ATGAGGCTTGATACTATGCCACCTTGAGTGTACCTCTAAGTCACCTAGGAATCCCCA [T/C] CCGAATACCTCCAAGGTCTAACAATCTTACTTTAAGGCTCAACAACAGACCCGCGCATGAT
2586 CaSNP4636 ACTTAAATGAAATATCAGTGAAGATCTATCATTGATGATGCTATTTATAAGCAAG [A/C] TTTTGTTCATGCTCTTATGTTTCGTAGGATTTTAGACGCTCAATACTCCATGAGGAACA
2587 CaSNP4637 CTATTGCCGTTACAAGTTGAGGCCATATCTTCTTTTCAATATAAGCTTAAATGGCTGTT [C/G] TGGACTTGTTTTTGTGTAAGTAGAAGAATTTGCTTTAGTGAGATCATCGAGTTCCGATTG
2588 CaSNP4638 GCACTTGAACCTATTCTCACTTCACTCGTGTTTATCACTCCGGATCGAAAAATCTCGCT [A/C] TGTATACCAATTGTAGCATTCAAGCTATTATTTCAAGTGAAGAATGATGAAACATTGA
2589 CaSNP4639 TCCACACCCGCCAATCCGGTTCACCCGACTTAACCTGCCGAATGACTCTTTTGGGCCT [A/G] GATCGGTGCGTTTTGGGCGGCCTGTGATTCTTGCCACCCCTAGGTGCAACTAACAAAA
2590 CaSNP4640 ATGTTCTATTATGTTAATTAGTTTTGCGATGCCAATCTCTCTTCTGACTATACATAACACT [A/G] CTCTAAACATAAACGTAATACTAACAACCAAGACCAAAATAACATTAGCAACTAATA
2591 CaSNP4641 GGGATTAGATCTTCTTGCAAAGGAAGTGGATGGTTTTTTCCAGGTGGTCAATGCTGCTGGTCG [T/C] GATGCCTTGCTATCTAGTCTGAGGTCAGGTGCAACTGTCAATGACCGCATCTTGGGGGT
2592 CaSNP4642 CTCTTTTGTAAATAATGAAGAAAAACAACATTAACCTAGGAATATAAAATTAATCTCCCA [A/G] TAACCTTGTAATATCTACAAGTCTCTACAATAGTAATTTAAAAATCAAAATGACATAATTT
2593 CaSNP4643 ACAATAAAGATTCATAAACACTTATCCCGCCTTTTCCAGAGGTGCCACAATTTTGTAACTA [A/C] TCTCAATGAAGAATTTTCTAAAATCTTCAACAACAACAACAATAACATACATAAGAA
2594 CaSNP4645 ATATAGATGCGGCGGTGTGAGCGGAAAATCCGAAACATGTTGTAGGCAGGAATAAATGT [T/C] TAAATGTTACACCTCTATGAAACAGAGCGAATGCGGGTCTACATGCCTACTTTAAGAG
2595 CaSNP4646 ATGTTAATCCAATGACACAAACGTACCTATTGGAGGCACAATATTATATAAAAACCCCTAA [A/T] TGGACTCGAATAAACCTAGGGAGGACGAAAATGACCTAAATGTTAATGTAATGACACAAA
2596 CaSNP4647 AGAATGTAAACGCAATATCAAGGAAACAATTTTAAGTTGGAGGTAGATAAAAGGAAAT [T/G] AAGGGATGGGAAAAATCAACGTTCTTATTTAATTTGGTCACTCCCTATTTCTTTGTGAT
2597 CaSNP4648 TTAAAGTTGTTACCATAAGACTTATTTATTCACGTGTTTGTGTGTATATATTTGGGATA [A/G] AAAAAATATTGATTTCTAGATTATAAGCATCCATGAGAATAAAACCTTATGTATATGTTGA
2598 CaSNP4649 GCTTAAAGGGCTTAGAGAGTCTAATCGAGTACATTTATGTTGACAAACAGTACTGATG [A/C] TTTCTCTATATGAGAACAAGATGAAAACAGATCTTGCTTAAAGTAGCCACACTGTCATTC
2599 CaSNP4650 ATTTCCACCTTTTTAACACTGTCTAAGCGCGCCAGAGCGCAAATCTACGCCATGGATA [T/G] AAACCTCAAAGACGGCCATTTCTAACACCATTGGAGTGAACAAGATGAAACCCCTATTTTT
2600 CaSNP4651 TTGCAGTTATCAAAGAATTGATTATCGAGTACCAGTCCCATTGCGAAGTTACTGTGATGC [T/C] TACTCAGTCAATAAGTAAGTCATTTTGTCAATTTATCTATTGATTTACAGAGCAAGGTA
2601 CaSNP4652 TTACAAGACTACAACCAAAATGTTGTATATTTGCTGAAATCAAATACATATTTAAACCTT [T/C] AATAATTGATATTTGATAATATAGGATGTCGTTCTACTATTGGTACACAAATATTTATTT
2602 CaSNP4653 AGTCATCTCATTCTCTCTGTAGAGCATTTTCTATCTCAGGAAAGGTGAACTAGAGGAGG [T/C] TGTTCAAGCTACACTCTCTACTTTGCCAGATGAGGTTGTGGACTACTGTTGGTGTGGCAGC
2603 CaSNP4655 ACATATGGATATGGTGGGAAAAAGAATGTTGTAGATTTTGTAGATGTTCCATAGCCTCTA [T/C] AGCTTGGAGTACTATAGGAGGAGAGAAATGATGATGAGTAAGATTTAAATCATAATATAG
2604 CaSNP4656 TAGCACAATGGAGACTCTTGACCGTTCAGCTAGGAAAGATTTGACCAATGTTAATTCCTT [C/G] TCAAACCTCTGCCCTAACCTTAAATTTCAAATTTGACTCTGACAATTCATTCGAAGGA
2605 CaSNP4657 AGTGATTATAACACTTAAAAATAGATGCAAAATGAAATACAATTAATAATTTCCATTGTCA [A/G] GTTGACCAGACTTAATTCATTAATTTGGATATACCTTGCTGGTGAACCCCTTACATCA
2606 CaSNP4659 TATAAAGTTTCTAAAACACAATGAAAAGCTCATGCAGATGCTTCAAACATGGTCAT [A/T] AAGGAGAACAGAAGTTACAATCTAAGAATCAACAAGCATAAAGGCATTATAGAGAACAT

2607 CaSNP4660 TAATTTATGTTATCTTAACATAGATAATCACCAACATAAACTTTGTCTTCTAACTTAAT [T/C] TGCACACTTAGCAAATATTGTTATGGGATAAATGTTCTAATTTGTTTATTTTGTATCAT
2608 CaSNP4661 TAAAAATATCTTTTTTTGGTCTTTTTAACTTTAGGACCTTTTATATATTGATAAACCCCTTA [A/G] TTTTGACCAAGTTAAAGCTACCATGAACATAATTTTTTATCATTCAATACTATGTAGGA
2609 CaSNP4662 ACTTCAGTTCTCCCATCATACTCATTGAAATGTCATCAACTTAGAAAATATTGGCATA [A/G] GGTGCCGTTAGTTGAACCAGAAAATAATATCATCTACATATATCTAAATTACGATAAGGT
2610 CaSNP4663 TATCGATTCCGTAACATGCTGTGCTGGATTTTGAAGTTGAATTACAAGAGTAAATTTAA [A/G] TAACATGTCATACACACCTTCAATACATGCTCCGGACCAATAAATTTAAAGAAAAATT
2611 CaSNP4664 ATTGATCTTCACATGTTAAGAATGCATCAATGTAGATTAGTGAGAATGTGTATTGAGGTT [A/G] ATTTAATCTAACTGATTATTGGTAGGGTAGGAATCAATGGTGAATGGTATCAAGTTCAGT
2612 CaSNP4665 ATCATGTGATAAATTACTATCTATTTCATATTTCATAACTTTTCTAGTTGCGACTCTTTTTCA [T/C] AGAGCACAGTTTCTTCTTGTCCAAATCAGTTACTCATCTCTCCAAAGCCTCAGGTAATA
2613 CaSNP4666 AGGACTTAGATTAGTGGTTAGTTAATAATAATAGTTAGATAATGAGTCAGTTAGTTGAGG [T/G] TGTATAAGGCCTACTTGTATAAATAGGGAGGTTAGGGAGTTAGAGATAGATCATTGAAT
2614 CaSNP4667 AGAAAAGACTATCATGTGTCCAAATTCAAATTCAAATACTAATGAGGTAATTGTTTATG [A/T] ACCCTGTTCTTTATGTAAAGTTGTGATAGCTGAATTAGATAGCCTCTTAAATGACTCAAA
2615 CaSNP4668 AAGCAGAAAGACTTCAGAAGAAAAGCTTGATGAATACTTGGGATGACTCTGATGACTAGT [T/G] TTCACTCTGACTCTGATGATGAATCGATAGACGAAGAAATAGTTATTTTTGTTATCATAT
2616 CaSNP4669 AATCATATTTGTAACATAAATGATTATAACCACGTAAGTCAACAAAATTACAACAAACT [T/C] TTTATTTTTTAACCTAGCCGCATAACATCTCTTCTCTTACATTGCTTTCTTTTTCATTCA
2617 CaSNP4670 CTCCATTTTCATACTCTTTTACAATCGATTGGCAGACATCCATTTCTATCCATATTATA [T/C] GACCTATATAAATGTAGTTACAAAAATAATAAGCTTTCAAAACATATCAACAAGTTTCAA
2618 CaSNP4671 TAAAAGTGTGCTGTTTACCACGAAAAAAACCATTGATTAATAAAATTTAATATCTAC [A/G] CATTTTAAGTGTGTTCTAAATCGATAAAAACTGTTGCATGATATTAACCTCAAAATATGTC
2619 CaSNP4672 TTTGATATGATAGGAAATGTCGGTCTATATAGCTTAATAGAAGCTAATGTAACGTGCT [A/T] TCTAAAGATGCAGTACTACAAAGTCCATTAAGAAAAGCCCTCTCCCCATCAACATCAAT
2620 CaSNP4673 TACTTCGCTTGTACCCTCATAAATATGCACATCCCAATCAAGCACTGGGTTGGCCAG [A/G] CCAATATAATAGCATACAAAATGCATGACTATAACTAGCAATCCTATAAGTCCAAGATT
2621 CaSNP4674 GTCCAGTTCTCTTATGCAATATCCATTTGTCTTTATTTATGGGCATGAGGCAAGATTCAA [T/C] TGGTAGTTCTTCAATGTATAAAATGTAAGATTTTTCTTTTTGGATGCAGAAAACATTAT
2622 CaSNP4675 TAGATTGCTAGGCTTCACCTTCTTTATCCACTACCTCACAATCCATCACACTACCAAAA [T/C] CCTGTCTATCCTTCTTGGACGACACTAACCCACTTGAATGGATTTACCAAGTTGAGAGCT
2623 CaSNP4676 ACATGTACATGCATATATATATACATACATATATAGAGTATATACATTTGGACTTTTC [A/C] AAAGTCCATTTATGTTTGGAGTTGAGTGGAACTTTGTAATATGTGATATTTTCATTAT
2624 CaSNP4677 TTCATGAAGGTTTCGACGAGAGGAATTA AAAAATGATACCAGTTTTTTGAGACGACAAAC [A/G] TGGTGATCGGAATCGGCAAAAATAGTCATATTGTTGTTGACTTCTTCTTGTAGAGTCATA
2625 CaSNP4678 AATTGATGAAAAGTACTTTGGCATTCAAGATTGGCCATCTCAACTTCAGAAGCTTGTA [T/G] TACCTAGGAGTCAAGAAGATGGTGAGTGGAAATTCCTATGATTGATGTCCCTAAGAAGGTG
2626 CaSNP4679 GGCTATATGTTTATGATAAATAAGTCACAAGTTTCATGGGGCTCAAAGAAGTAAAGTATA [A/G] TAGCTTTATCTCATGCAAGTTGAATATGAAGTAGCATCAATGGGAGCATGTCAAGCCAT
2627 CaSNP4680 GATTTTAATCACCATTCAATCTTCTTACCTTCTTACTTCTCATAGAATAAAGAACCCTC [A/G] TGTGCAACAACCTATGACGATTAGGCACAAAACACTCTGACAAAAGGCTTACCAGATTCT
2628 CaSNP4681 TGAAAGTAGTTATTTTTGCTTATAATAGTGATGGGAAGGAGATTTTTGGGGACTTGTGT [A/G] ATGTAGTGACTGGTTTTCTATCATGATGCTATTCATTTAGCAACATTTGTTTTCTATC
2629 CaSNP4682 TGTCCAAGGATAATGTTCTTCTTAATCGAACATACAATGCCAAGTGAATGTTGTGCTCTA [T/G] TGGCATGAGTTATGATATGATTCATGATTGTTCTTAAACGATGCATTTTTGTTTTGAAATGA
2630 CaSNP4683 AAGGAAAAGGTTTTATAATATTCAAGTCCATATGCAATTGTATTGTGGAAGGTATGCAA [A/G] AGAAAAGAAAGTACCAGAAATGAGTAACTGAGTATCCTCTGAAGAAAATCTGTGTTGAT
2631 CaSNP4684 CTGGCATGTACTACATGATGTTTGACTTAGGCATCCATAATACTGAAGCCCCAATCATCT [T/G] GCAATTTTGCATATATTTTATCTTCTTTGTGTAACATTTTTACATCAAAAATATCAC
2632 CaSNP4685 GCATGCGCACATACATATCGTACCGTCAATTGTTGCAAAGCAACAGGACATTCTGATAGG [T/C] ACTTTGTAGCTAGAGTCATAAGAAGTGGAACTGAGTCTCTCCAGGAATCATCATATCAA
2633 CaSNP4686 AATGTCAACCTTTGTGGCTCCTCCTAATGAACCTAGTAATGCTCTGCTTGATACACCTCC [A/G] CAACAAGTGGTAATGTTCTACATCTTTCATCAAACAACATATTAATATGGGGATATATGAC
2634 CaSNP4687 ACAGAGGGAAGTCTCACCATAGTATGAATTTGGATGATCTTCTAAAAGATTTGATCACAG [T/C] TGAACTAGTCAACTTATGCAAACCCCTCATCTGTTATTATTAATAATAATAAATTC
2635 CaSNP4688 GCTTGAAGCAAGCTCCTAGTGCTTAGTACAAGACGATTGACAAGTTTCTTCTAGAGCAGC [A/C] GTTTGAGAAATGTGTGAATGAGTATGGAGTTTATGTTAAGAATGCAACAACATCACCTAC
2636 CaSNP4689 CATGCTTGTAAAGTAAAGAACCACAACCTTCCAACACAATCCATTAGCAAGGAACTCTA [T/C] GAGTTGGCAAAAATCATTGACCTTGATTTCAATTTTTTAATATATAAATCATTTGAATC

2637	CaSNP4690	TGTTCAAAAATATGATGATGAGGACAATTAGACACTAACTTCTTGAATCTCTCCCAATAC [A/T] CATGTAATGATTCCTCATCAATCTCCCTAATGCCACATATTTCTTTTCAAATTGAAGCAA
2638	CaSNP4691	CCTTCCAATTCCAAACCACATTCAGGTATGCCATTCTTCCCTCTGTTTCACGTGGTTCCGGG [A/C] AATCATAAATAAGCTGAAAACCTTAGCGATTGCATTTGGCTAGTACCTTTTTCCTATTCAA
2639	CaSNP4692	ACTATGTCACCATTCCGATGGACAGACAATTCAAAATGGCCCTATCATCATAGATCCCTT [T/C] AACCAACCCGAGACACATATATGCGACTCGAGGTAATGTGTGTTGCATGGTAGTTC
2640	CaSNP4693	ATGTTAACTTAAGTCGAAGTTATAATCGTTTCAGAAAGTTCCACCGATGTACATTGCCTTGT [C/G] CTCAACTCCTTAAGACTGAACAAAAATCGTAGACTTTGATGATCGTTGAACACTTCAAAT
2641	CaSNP4694	AGTTAAATACGGTTACTTGAAGTTCTTATGTGTTGGCTCTTGAAAAGAGGATTTATATT [C/G] TTGGTATACATAATATCAATTAATTTTTATAAGCCTTTATTTCTATTATACAATCCGTAT
2642	CaSNP4695	AGAAACAATCCCCTAGAATTTCAACCAAGAGAAGCTTCTCACTTGTGCTAATTTATCTC [T/C] TTCTTCTAAACCCGCCAACGATGGAGTCTCATTATAAAGATATTAATATTTGTTGCACATA
2643	CaSNP4696	TCTAGTGATTGTAAGACCTACTGACCTCTGGTGTCTATCTTTACCTTTTGACAAGTC [A/G] GGCCTTATGTACAAAGGTGGTCACATCATTTCTTCATGCTTGGCCAACAATTGTTTTTCT
2644	CaSNP4697	GTTGTCTTGCAGGACGACTCTCGTCGTCGCTCTTTTATAGCCTATCACCTCATTTCCTT [A/G] CAGAAGGTTGTGTCTTAGCCTCTCACCGCTGTCTCTTTATGTATCGCAATGATCTGCCTC
2645	CaSNP4698	GCCATAGAACTTTAGTTCGTACCTCAATAGGGGCAACTCATTCTCATTTGGTGTATGGAT [T/G] GGAAGCGTACTTCTTATGATGTGGAATTTCCCTCGATCAGAGTCTTAATGGAACAAA
2646	CaSNP4699	AGGAAGAAGTAGAAGAGAATGACAAGAGGGATTTGTATGCAAATTTGATGAGGAACATGT [A/T] GTTAAATGCTTTGGTGTATGAGAAAAACGAAATTCAAAGAAAAAAGTTATGATGAAATA
2647	CaSNP4700	TTAAATGTAGATTGTAATGCCCAATCACAATATGGAACGGAATGGCGAGTAAAATATGAT [A/G] TGATTTACCTATAACATTATATATCTGGGAAAATGGAGTTAAGTCCCAAAATGTAAAACA
2648	CaSNP4701	TCTTATGATGATTATCTTTTGCATTGAGAAGTGTGTTTGGAGCTCTTTGGCATGAGAAA [T/C] TGTATACAAGCATGGAAAAATGTGTTTTATATATAAATCATGTAATTTTTCTTGGTTTTG
2649	CaSNP4702	GCTTTATCATCAACTGTCCAATCTGCTTCTTTCTTCGCACCAGAGATTGACTCATTTTGA [A/T] CAACTCTGGTATGAAATCTCCAAATGTAAAAATTCACCACATCCCTGTATCTTGAGATT
2650	CaSNP4703	CATAAGTCAGTAGCCAAATCAGGACATATGTATTGACTGCAATAGCAGAAAAATGTAGA [A/C] TTCAGTTTTGAAACGTTTTCGAAAAGGTTTTCGCAATCAATCAACACTTACACACAAGTCCA
2651	CaSNP4704	CGACCTAATCAGTTAATCTAGCTATTTTAGACTATTTTACCTTCAGATATTTGTATATTT [T/C] CATATTGGTAAGTTTTAGTTTTCCACAAAATTCATAAACACTCATAACTTTGTCAATTCTA
2652	CaSNP4705	AATGAAGGAAGATGTTTGTCAAAAAATACTTTGTATAATAACATCAAGATCACCAAAAGTT [A/C] ATGTTCTTAATCATATCCTTTTTTGATCCTCAAGGTGAGAAAAATTTCTTTCAATCTTCAAC
2653	CaSNP4706	CTACTAATTTATTTTATGTCATGTTAATTTTATTTCTATTTTATTTGTGTTATTTTATTT [A/T] TAATGAAATCAAACCTTTAAGCTTATGTAATATTTAAATATATAACATTTGGAATAAG
2654	CaSNP4707	AAATACAAATATCGGTCCATTTTAGTCAGGTGGTACGAAAATCGCTCGAAAAGTCCAGCT [A/G] AAATCTAGGACCGAGAAACCGTTATAGCATTCTTCTTCTAAATTTATAACCTTGTTCGG
2655	CaSNP4708	CCAATGGTGTAGCCGAGTGATATGGGTTGGGACGTTGAAAGAGTATTAAGGAGGTCTAGG [A/G] TTCGATCCCTGTGCTAACACCTTCCCCCTCCTCTGGCAAACTAACATTTGTCTATAGA
2656	CaSNP4709	CAAATATTCCTAACATTATTATGATATAAGGTAACATAACCAATTAATTTTGAATTTAC [A/C] TTAAAAAGCTTGCATATGATGATGAGTTGTCATTACTTCACTCACAATGGAATGC
2657	CaSNP4710	TCAATGCCAGTATTGTCTATGAACGAAACATAGATGGTATGTCTGAATAGATGGTATGTC [A/T] GAATTTCAATATTACAAAAATACCTTCTTCACTAAATGAAGATTATTCAAACAAAATTGA
2658	CaSNP4711	TGATCTTAACGGAAAGAGTAGCCTAGGTCAATGAGAGGAGGAACCTAAGGTTAGAGGTAA [T/C] TGCCAGAGAGATCTTCTTGTGCATCATATAGGCATGGTCTAATAAGCTTGGTGATGTTGGA
2659	CaSNP4712	ATTATGAGTCTGAAATGATAGCACTAGCTACTACTAGGAAGAAGCAAGTTGGTTGAAAAA [T/C] GTGTTAAATGGGAAAAACCTTTGCCAATTTGCTTGTGATCCACTGCGATAGTACCGGACTA
2660	CaSNP4713	TATGTGGATAATTGGTTCCATTTACAAACTATAATATTTATTTGTGCTTCTAAATTTATTT [A/G] TTAAAGCATAAAGGTTACTTCAACTTTCTAACTCTGAATTGAATTCTTAACTTAAAGCA
2661	CaSNP4714	CCACCTCAAATCTCAAAGATACATTCATGTTTCTACCATAACCCTAGTAAGCCAATCT [T/C] AGAATCTTCAAATGTCATGCACTATGTCAAAAAATTTCCACCCCTCAAAGGTTACCTT
2662	CaSNP4715	AACTCGTCTCTAAGTCAATATGTTTTAATCAACAAAAATCATGATTAATATATACAAAT [T/C] AGTCATTGAGAATTGCTCACTTATGCTCAATTTGGTCCCTATAGTCGTATAAAAATTTCT
2663	CaSNP4716	TTGTTGGGATGATGACGAGTCAATGCATAGACCTCTCAAATTAGTGCCTTGTGGTGAAG [A/G] GGAGCGTTAGCATGGTGAGGTTCTTTCTTCTGTTAGGTTGTCACAAAAATGGGGAGTTCTG
2664	CaSNP4717	TCTGAAAAAGAAGATCATTCTGGACAACAGTCTGAAAATGAAGAATGTTCTAATTTTGA [T/C] AGCATTAAATCCAAGAACATTATGGTTTACAAAGAACAAGTCTTCTTTAATTCATATCG
2665	CaSNP4718	AGTCTGGGGACGGTAGGAAGTACTAAGGTGTAGTTTAGTTCTTAGAGACTTTTGAATGC [A/C] TTCCAAAACATGGAGGTAACCTTAGGGGCCCTATCTAATATGATACAAAGAGGCACGCCA
2666	CaSNP4719	ATTGATATAAAGGATAGAGTTAATGGAGATGCACCTCGGTGTAATAATAGATTTGCAGT [A/C] CATCCAATGAAATTTAGTATTTTGTAGTTACTTTTAAATATACATCGAAAGTGCATTTTC

2667	CaSNP4721	AGGTTATCAAAGCCAGGCGAACAGATGCTTGTATGTCGTTATCAAAGCAGACGAACACTT [T/G] CTTGGTGCATTCATCAGAGGTAGACGATCAAATGCATATTGTAGTTATTGGAATTAGACG
2668	CaSNP4722	ATGGTGAAATAAAGATGTTTGTATAGTGCAAACAGGTTTGTATTGAAGGCACCATTGTCCA [T/G] AAACAGAATCTTCAAACAACACTGTCAAATAGATCTTCAAGAATAATGGAGGTTGAAGG
2669	CaSNP4724	AGACCATAATCATCTTCACATTCCATCAACATGATTAATTGAGGATTCAAAATTACAA [A/G] AATGAATCTTAGCAATGCTACTTTAAAAGGAACCAATTTCTAATCAGCATTATTTCAATT
2670	CaSNP4725	CCGTGTCTTCATGAAAGTTGTAGCTATGAATCGTAGCTTTTCATTTGCACTTGGTTGACT [T/C] CAATTGGATATCTACAACCTCAGGTATGATTGAAATACTCTACATAGGTCATGTTGATTT
2671	CaSNP4726	CCAAGTACCAAAGTTTAGAATCTTGTGAAATATAGAACTTCTCAACCTGTGTATTGAAT [T/C] GTTGCAAGTAATAATTAACCGGTAATACCAAGTGTGATCTCATGGATTGCGTTTTACT
2672	CaSNP4727	GCGGTTGTTATGTTGTAGTTCGCTCGATTTTGTAGTGGCCCTAATACCACTATCATTTTA [C/G] AGCGGTTTTGTGCCTACAATGCAATGGAACCTCTGATACAGTGAATCTGAGTTGTTTTAT
2673	CaSNP4728	TAAATCTACCTACAATTATCTATTTGTTTAAAGCCCTTTGAGCTTAAGTATCTCATTCT [A/T] TGTTATATAGCTCATTACAAGCCTAAAAGTGAAAAACAATGAATTGACCCAATCTTGGGG
2674	CaSNP4729	ATTATTTTGGTGCTTAGTGTGTCAAACCTTGTATCTGTATTTTTTAACTGTGGGTATG [A/C] GACGACTACTATAGTATCCTACTCAAACCTATCCATTGTCATCCCTATATGTGCTCTTA
2675	CaSNP4730	TGAGTTTTTAATACAACGAATTACGTTGTTTACGTGCCACCAGACATAAAAAATGAGGCA [T/G] AAGTATATTTAAGTCGGTTGACCGTATAAATAAGTTAACAAAATGAGGAAGTGGCAATTT
2676	CaSNP4731	GGCTATGGAGCATAAATGTTGGCAAGATGTATAGAGGCTGAACCTTATAGCACTAGAAGA [A/G] AATCAAACATGGGATGTTGTTCCCTGTGCGCTTATATGTTAAACCTCTTGGCAGTAAATTTG
2677	CaSNP4732	CAAAAAAAGGACATGAAACAGTAAAAATAATTAATGGGAAACAATGATAGTAAAGAAAG [A/G] GAGTTACTAATTACTATTCCATGACGATGTGAAGCAGTGTGAGGAAAGGGTTGCAGG
2678	CaSNP4733	CCTCATAACATAAATACAATTGTTACAGCTATCAAAGTCTAATAACAACAACAATCCA [A/G] TTCTTGTGTGACTTCCGGCAGCACAATACCTTATTTAAAAGAAATAAGTTGTGTTTTAT
2679	CaSNP4734	AATCCGGTAGTCATAAATTCGATAGTTTTGATCGGAGCAACCATACTTTTATGGTCCGCG [A/G] GAGTGTAAATCCAAGAGAAAGACGATCAATTGGTCATTTTCAGTGTAAACCTTTCAAACAA
2680	CaSNP4735	ACATAAAAAAAGTGGTACATGGACCCATCAAACAAGTCAAGCTGACAATATAAGGT [A/G] TAGGTACAGTCTTTCAAATGAAATAAATACAACCATAAAAGAAAGATATGTATCCCCTA
2681	CaSNP4736	ATTGTAACCTATGACACTAAGTTATTTGTTTATTTGGTTTATGAAACCCTAATGGGTT [A/C] TTTCTTTCATTCCCTCTATGTTTATCATTGTTAACATGGTATCAAAGAGCTTTGGTTGA
2682	CaSNP4737	GAAGATTTACGTTTGGTCTTAATGTCCATATATATACTCATATGCTTATTTGAATCCAC [A/G] CTAGAGCATTATATATTTGTTTTTAGTATGTTTTGATGGATGAATTGGTAAATTAATTC
2683	CaSNP4738	AGACCAATATCTCGGAGTGTACTGTGTTTCATAGGAAATGTATACATGATTTCCCAATG [T/G] TTTCTATTTCCATGTGCAGGTTGCAAAAAGACCCATCTGGCCATGAGATCAATGCACCTTGA
2684	CaSNP4739	TTGGTGCAATAACAATGCACATTATTAGAGCTACACATAACAACCTTCATGCTTGCCATTG [A/T] TTCTAAGTGAATTTAATTGAAATGTGTTTTCTTGTGTTTGAATTTGAAGTTTGTG
2685	CaSNP4740	CTGTCGGTATAGGTAATTTTAGTTATCCCTACGGTTATTATACCTTTACCTACAATTTTT [T/C] ACTGTCACTAAAGGTAAAATTTCTTGTAGTGTGTTGAGATAATGTTTCTATCATCATTGC
2686	CaSNP4742	TTTTCAAATTAAGTATTCATCATCTCTGTAGAATTACACCTTCATTTAACAAATATAA [C/G] TCTTTCTTTTTCACCTTTTATGTAATTTGAATCGCCATATATCATCACACTCTTGGATAA
2687	CaSNP4743	TTTTTAGAATAATTTTGCAAGAATTTTGACAACCTAACGAACCTTCAACTGATATCCAAA [A/G] TTCATTTATGCAAAAATTTCTCCATTGTGTAATACTTAATAACTGCAATATTTGTCATT
2688	CaSNP4744	GTCAAATCCCTTGGCCTTAGGCAAACCTACAATGAAGTCCATACTAATGTCTTCCCAAAT [T/G] GCATTCGGAATCGGTAATGGTTGGAGCAGCCCTCCGGAGATGATGCTTCATACTTACTT
2689	CaSNP4745	GTTGTTTCATTGCACCAGCCACCTTCCAACCTCTTGCACCTCCATTAATAATTCTCAA [C/G] GTAGTTTCAATTTTCATTTTGGCATATTAACCAAGATTATAAAGCTCAGTGGGTTCAAG
2690	CaSNP4746	GTAGAGAATGTAATCATTGTTTACACGGTCGTTTTGGCATTGGTTTCTTTCAAATTAAT [A/C] TTACAGTGAAAAAGAATTGTGCAAAATAGCGGATTCCATAAATAGAGAAGTCGATAATTT
2691	CaSNP4747	TGCATTACTAGATTTTTGGTGAGAAATCAACATGACTTATGTATAGTATTTCAACCATAT [T/C] TGGAGTTGTAGATGTCCAATTAGAGTCAAACCAAGTCCAATGAAAGCTAAGATTCATAG
2692	CaSNP4748	AACTCAACTTCCATTGTGGAAGTAGCGATCATGGTTGTCTTTGCACTTTTCTAAGAAATA [A/G] CTATCCTAGCTAACATGAAAATGCATCTGGATGTTGATTTTCTTGAATCAATGCAACCAA
2693	CaSNP4749	TTTAACATCACCGTTTCAGGTCAACTAATGAAGGAGAGTTAAACAATAATTCCAATGGATC [A/C] TTCAAACCTAAACGTATCATCCACAGATAATCCCTTAGAGCTGGAACCTGCCAGGCTCACAA
2694	CaSNP4750	ACGATCTAGCCGCGGAACCAACCCATTATTTCTTCTTCTTCAACTTCCATTTTCATCTT [T/C] AAAAACTCTCTTCTGCTTCTTCTTCACTTCCATTTTCATCTTTTGTAGTCGTAGTCTTCATCACTTTC
2695	CaSNP4751	CAAGTGACTAACTAGTACTTACTAATTACGTTTATGCTAAGTAGGTAGTATGTATCTCCT [C/G] ACTTAAATTTCTTTTACTACTATAATTTGTTTATTGTTGTTCTTTTAAACATTAT
2696	CaSNP4752	TTATATACTATTTATTGAACAATAGAGTTTAACTACTAATTTGATATTCAGTTGAATC [A/C] AACTAATGTTGTCAATAGCATAAAAATTAATCACGAGTATGGATCTAAATATAGAGTATAT

2697 CaSNP4753 TATCCATTAGTAAAACCTTATTAATTCTACATTATAAAAACCTTATGTGAGTTATGCACCATA [T/G] AATTAAAGTACTTGATTTTGATATTTAATAATTTATGGATTATTTAGAGATTTAACAAGA
2698 CaSNP4754 TTTAAACATTTATTAACATAAACTTTTGTTTTAATCTGCACACTTTGCATATGTAGTTAC [A/G] GGATATCATCAAAATATTAACCACATTATTTGTAATTAATAAATACTTTGCACTAACAACCT
2699 CaSNP4755 CATCATGATCACCAATCTCATCATGACCAGTACATCATTATCTCTTTCATTTCTCA [A/T] TTCATCAAAATCAAGTCTTTGTTGATCTCTTTCATTTCTCATTTCTCAAATTCATGTCT
2700 CaSNP4756 TAAATGCTAGTGAATGATCAACTTAGTTTGGTTGTATAGGAACCTTAGTGTCTTTTTGGTG [A/G] TCGTAATTATTTTCATTTTGGGATGATTGTATCTATGACTTATATTATCAGTTGACTTTTTG
2701 CaSNP4757 GTGGCAAAATACTCTTACTCTAATATACTCCCGATGTA AAAATCAATGATGTTAATTGTA [T/G] CTAGGGGTATAGTTGGAAGAAAAATGTTTATTATATCTTGAGTTTCTAAAGAATTGAGTT
2702 CaSNP4758 TGTTTTCAGTTTTTCATTTTCATGTGTCTTGTGATAATTTCTTTCTATTTTCTACATGTG [A/G] TAATTAGAACATCTTATTGTGAAAGGACCTAGTGAGGTTGAGAGTTCCACTAAACACCCA
2703 CaSNP4759 ATGAAAAACAGATCATTCACTGGCTGCAGTTTTGTTAATTTAAGAAAAGTCAGATTTAT [A/G] AGGACAATTTCTCAGAATCATTTTATAAGCTTTACATCTAAATACGTA AAAAGCATAATGG
2704 CaSNP4760 TAATGTTCAAATTCACATTCAAAAAGAAGTTGTACGAAGAAAAAGAAGTTGTTACCTA [A/G] CACCTTATCTCATAAAGTAAGGATTTGTCTATTATAGTTATCGCTTATAATAGATAAAAAT
2705 CaSNP4761 TTTCTAAACCGATCATCTCGATTGGAAGACCGTAGGACTGCGTGAATGTAGAATTTATCT [T/C] ATTGAAAGATTAGTTTCTTATTACTACTACCAACGGCCCAAAAAGTATATATAAATCGTA
2706 CaSNP4762 CTCCTACAAACTCATTACAAATCAAAAATATTTTGTCAAACACTTGACATACAATAACT [A/G] TAACAACCTTATTCAATATTTTATTATATTTCAACAACATCAACAAGTTGACATAACAACA
2707 CaSNP4763 TTTTCGTTTGGTGGGTCATGTTTCATTTTTTTGACGTGACAATGGGGAATAGCATTTCT [A/G] GAGCAGTGTCTTTGTGTCAGTGTCTGCGGAGAATACCCCAAGGGTATGAGCGATGTCTGA
2708 CaSNP4764 TATATGAATGGTTTTGATATATATACATCTAGCAGGTTTTAAACAAGTCGGACGTTTGC [C/G] TATCATACCTGCCGTAATATGCTGCCCAATGAAGTGCAGTCCATCCAAATTTATCCCGAA
2709 CaSNP4765 AGGAGTGGAAATAGGCTAGGTTGAACTAGGACCGAGTCTAAGTGTGATTGTAATATGTC [A/G] AAGGTTTTATTTTTTAGGTTTGTGAGTTTGTGACATTGATAGAAGTCTAGTATAGCGTGATAGT
2710 CaSNP4766 GTTTTGTGATCTTGTATGTTATGGGAACTTGTCTGAAGTTGTGATGTTGAGTTCATTGAAAA [T/C] CAACGGTTGAAAGACATGTTTGTGCAAAATGTATCATGTGAGTCTAGAAAAGAATTAGAA
2711 CaSNP4768 AATTTAACACAATTTTTATATACTACTATAGGCTGAGTAAGTGTGTTTTGTACTATAAT [C/G] TTTTGAACATTTCTTAATGTCTTTTAAAAATGTTTGAAGAAATGGTACATTATTGTTAATT
2712 CaSNP4769 TCTTTAATTAATCTATGTA AAACTATTTTACATTACATTGCATACTAATTA AATTCAAAC [A/G] TATATATTAATGGCTAAGAAAACATAATGAAATGAGAAGTTATGATAAAAATACCAATAT
2713 CaSNP4771 CTTAGCTATCTAACGCCTACTCGTACGGGTCACCTGATATCTGGAACCTCAAGTTATAGC [A/C] TATAGAGTGAACAATGATCAATATGCTATTAATAATATTTAAACTCAATTACAATCAAAA
2714 CaSNP4772 CTATCACCTTTAAGTTGTTTCATTTGGTTTTATGAAACCTAGATGGTTGTTTGTCTTTCTC [A/C] TCTCTTCATCTTGCCCCCTTATATGTTTATGAAACCTTACATGGTATCAAGAGCTTTGG
2715 CaSNP4773 CAAAGTGAACAATTTGTTAATATAGTGAGTTAGAATGTGTAGACTACTTTCTTTACTAG [A/G] GTACTTGTAGTGTTTTGAAGTGTGCAATGAAAGTAAACTAGAAAAGAAAATAATGAT
2716 CaSNP4774 ATTCATTAATGATTGATGATGTACTAGAATCTAATCTATGAGAAGCAACAAGATATAA [T/C] TAGCATTGACTTCTTCAACATGAAACAATAAAAAAGTTTATACGTTTCACTTTTGATATT
2717 CaSNP4775 AGGTCAAAGTGGGGGTGCACGGTACTAACCTCTTTAAATTTATGATCTCCCAATTCG [A/G] ACTAACCCATATGCAAAGATCATTTCCCAACGTTCTCCATAAGTACTTAATCACATTC
2718 CaSNP4777 TTTGCATCAGAGAGACACGCGGCACATTAGCCAAACCCACTACTACACCAACCGAA [A/T] TTCTTTATTGAATAATCTTCTTCATCTTCTTCGTTTTTCCAACCGCTTTTGCCTCAGTCA
2719 CaSNP4778 TTTTCTGCAGTTCTTGATCTTCATCATTGTCTTTATTTTCTTCTTCTCCCAAGTCTAGA [A/G] CATCAACTTTTACTCTTCTTCTGTTTTTTTTTCCAGTCCCAGCTCTCATCTTCTTCAA
2720 CaSNP4779 TGCTTAACTGCATTGAAGTGTGAAACTCACCTTTATGGCTGGA AAAATTGATTATCAA [T/C] GTTTATTGAACTGTA AATTATGTATGCTTATTGACAGATATTTCAAGGGAGAAAGACAT
2721 CaSNP4780 TTGTAACCGAGATTGATCTTGAGTTAATTTTTAAAAAGTAAAGTAGGAATTAATGTCATC [A/G] AAAAGGGATCACAATTCAAACCTCCATTCTTGTGATTGATATTTCTACTTCAAGGTCGA
2722 CaSNP4781 AATTTCCCTGAAAACATATCTACCTGCATAAGACCAAGATATGATCGACAATCTGGACC [T/C] CTCTCTATTGCACCAAGATACAAGGTACCTTTTGAACACATTGATCATATAGTCTAGC
2723 CaSNP4782 ATTTAGATTACAGTACTGAAACAATTTGACCAATTTATTGAGATTGAACAGTTGTAAA [A/C] GTTAACTGCGTCACACAGTTAGTTACATTAGGGATACACTCAGCAGGCATTGGCAGGAGG
2724 CaSNP4783 GATTGATAGACTTTTGGGGTATCTCTAGTGGGAAATTCCTAAGTGGATTAATAGATTATT [T/C] CCTAAGGTCGAGAGCAACCGTGCAACACAAGAGTACATCGATCGTCGCGTATATATATGT
2725 CaSNP4784 TGAATTGAAAAGTAAACAAGAAATCACCTTCTTGAATTCCTTCTAGTTATGTGCTTATC [A/G] TGCCACTTCTGGTCTTTTTCTTGTGCAAAGTTTAGCCTTACGTAAGCGTTAACCTTAAC
2726 CaSNP4785 CCTAGCACATGCCAATACTATCACAAGCCTGATTGTCTCAATTTAGCCATTGGAGCAA [T/C] ACTTTAGAATAGTCTATACCCGTTCTTTGTAGGAATCCTTTGACAACCAATGTAGCTTTG

2727 CaSNP4786 TCCATTTATTATCAAAATTTTCAGCGATGATTGTTATAGTTGGACAGAGCTCAATTTTAAT [T/G] TATTGAAATTATCATTTAATCTTCGAGAAAACAGATTAGTTCCTCTTTCCCTATGCG
2728 CaSNP4787 TGTTTATAGGTAAACTTTCTATGGCAGATATGGGACAACCGAAACATATATGATAAACAT [A/G] TCAGAGTTACGATGAAGATCGATAAAAAATGGTAAAAAGAAATGAGTGTGTATATATACAT
2729 CaSNP4788 AAACCTCAGGACCTTAGCATTAAACATAAGGTACACAACACTACTGAAAAACAACCTATCA [T/C] GTTAATTA AAAACGTTTATACATACATATATTCACCAATATTTTGGAAATATCATGATTA
2730 CaSNP4789 ATTTGTATCTCTTCACACATTCAACGCCAAGCCACTTTGCAAGATACATACAATCTCTTC [A/G] TAGTCAATTTTATAGGCTATTATTATCCGTTACCATGGTTTTAAATTTGTGATTTTATAT
2731 CaSNP4790 TATTTAACAATATAACCTTTTGATTACGTCAAATTAACCAATTAGACTATGACTAATTC [A/T] TTGACTCAAATCCATTTTTATAATAATGAACCTTGATTCCCTAAGGTGATCAGACTTATT
2732 CaSNP4791 AGGAAAGTTTGATCCTAAGGCAGATGAGGGTATTTTCTAGGTTATTCACAATCTAGTAA [A/G] GCCTATAGAATCTACAATAAAGAACCAAAACTATAGAGGAATCTGTTTCATGTAAAATTT
2733 CaSNP4792 CGATTTTCATCTATAATTTTCGGGCAATTCGACATTCTCAACCAAAATATGTAATTTTAA [C/G] CATATGAAGGCTGATGTTTGAAGTCTGATCTAGGACCTGAAACGTAATGGTGAATTTAGA
2734 CaSNP4793 TGATATGCAGCATAAAAATCTCATCAAAATGAAAACCTACACATTATAAGAAAATTTGGCT [T/C] ATAATTAATCTCTATTGTTTTCATATAAGATACCAAAATCATACGAAAACATAGATAATCT
2735 CaSNP4794 ATACATGTGTTTTGTGGTGTATTGTTGGGTAAGTAGAAATTTTATAAGTGTCTCATGA [A/C] TCCATATCATCTAAGGGTGTCTTTAAATTTACTGTGTTGTTGATTGCTATAGTGTGGCA
2736 CaSNP4795 TAATTGACTGATAGATTTTCATTCTTATCTCCCCATAAGCTATCCATGTTTAACTTGAT [C/G] CAGTTAATGTAAAAAATATATCATTTGATATACCTTTTGGAAAAATAAGAGAACGATAATT
2737 CaSNP4796 CTTCTTTAGCTTATCTTTTGCACACTCAATTAATTTATAGTACATTAAGTTATTTCCCA [T/C] AAAATATCTTTTGTATCATCAAAGCAATGTAAGGAATGTTCTCTAAGTCAGTTTGGTT
2738 CaSNP4797 TGGATCTCACGAACATTCCTAGTTTCAACATGAACAATCTGCTTTATGGTTGACCTTAT [T/C] CATTCACTTACTCATTACCCTGCGCTACTTCCAACGGTTAAATGAGCGGTCATAAGCTC
2739 CaSNP4798 TGGGTCTATAGGATAAATATGAACCTTGATGGATCCATCAACAAATACAAGGCAAGACTT [A/G] TGGTCAAAGGCTATATTCACAATCCGAAATCAATTACACATAAACATTTGCACAGGTAG
2740 CaSNP4799 ACTCATTTTTAAAAACAAAGGGTAGTCAAATCATTAACACATTAATTTAGAAATAAATAA [T/C] TTTAACTAAAATAAAAAATGGACAAAAGGTAATATGGGGAAATGTCCAAGAGACAAAAGG
2741 CaSNP4800 CTCCAGTTACTTGCTCCCACTAAACAGAGTGTGATCAACTTAAATGCCTAACTTACA [A/G] CCCCAAAGAAATCTAAACCGGTGCTTTGATACCACAATGTAACCCCCAATTTTAAATAG
2742 CaSNP4801 AAATGGAGTAGAGACCAAAGAGCATCATATCAAGATTACAATGTGATCAACCTCAAGCAT [T/G] AAGATGTTTATATCTTCTCATGTGCCGATAAAGATGCTTATATCTTCATCATCAGATTCA
2743 CaSNP4802 TATATCCTTTGCACCGTATTTATTTATTGCAATTCAGATTCAATTTACTCCATTTAGTTC [T/C] AATTTTAGTCTCTAATGCTAGTTCCTTAGTTTTGATGTTGGTATGAGCAAGGAATCA
2744 CaSNP4803 TCTCTATGTTGAAAGAATCCTAAAGAAATATAAATACGTTGACTTTAAACCTTCTTGC [A/G] CACCATATGATATAAGTGTGAAACTTTTCAAGAACACTGGTGAAGGTGTAGACAACCTG
2745 CaSNP4804 AAAAGAAGTTTACAAAAATAGGGATGAGAAAGAAGGTCAACCTTACGTTTAGACAGGG [A/C] AAGATATATCGGAGGTGGTGAAGTTTCCAAAAGTGATGAAATTTGGTTGGAAAAAGA
2746 CaSNP4805 TAAGAGAAAATTACACTCACCTCCTTGAGGTCCTCCTAAATAACACTAACCTCCCTCTA [A/G] TTTTTAACTAAACACTAACCTCCCTCTATTTTTGTTGAAAGTGAAGCACCTCCCTCCCT
2747 CaSNP4806 GGCATCAGTATGTTAATCATACATCATATCCAATAACACATCATAAATTTATAACAT [A/C] ACTATCATCAATCATACATCATCACACATAAACTTATCACAAATTTATAACATCACT
2748 CaSNP4807 TGAAGTTCTATATATATATATATATATATATAGCTTCACTTGCTACAAAATGATCTCACT [T/C] TTCACTATGATTCAGGCACCTGCTAGAGGATGTGGTTGGCAGAAAATTTGGTGTCTTTGTAA
2749 CaSNP4808 TCAAGGACAAGGTTGTGAGGACCATTGCTCAAACAATCCAAGGATATTCCTCACTGACAA [T/C] CAATCCGTTGGTGACTCTTTTCCCACACATGAATCATAATGGTGCCTTCTCTCTCGTC
2750 CaSNP4809 AAAGATGATTAATCTTCCAACATAAGAGTATTTAGATCATTGCTTCTTGAATGGTAGC [A/G] ATTTTAGGTCTCCATTTTCTTGCAGACTTATTAGTATCTTTTTACAAGATCGAAGTAGT
2751 CaSNP4810 TATGTTGTGCCACATCCTCTAAATTTTATAAGTATGAAGGCAATCTCCTATTCCTCTAA [C/G] TTCAGATTATGATCATGTGAATCATTATCTCTGATTCTGTTGTTGCCTTTAGAACCATC
2752 CaSNP4812 AACACTGATCTCAAACCAACATTTTTTAAGAATAATAACAATGCTTCGTCACCACGTA [A/G] TTAATAAATTTTACATCTTTCCATAGTTCCTATGTTGTCACATAAAAAATAACCTCCA
2753 CaSNP4813 AAGGTGATGGTACTAGGGTTTCAATATCTTTTTTGTATTATTAGTGAATATACATA [A/C] ATTTGGGACTTAGGGAAATTTAAAGTGGAAATTTGGTTAGATATTGTTGGGCCCTAAT
2754 CaSNP4814 ACACAATAATTTTTATCCGCGACATCCAACCTAAGTGTGTAGTACCGATAGTGAATAT [A/G] TAACCAGTGGTACTTCTTCGGTGATCGACCTCACCTGCAAAGTATGCATCTACGTAGCCT
2755 CaSNP4815 TTAAAGGTGCTTGTCTTTCCATGTTTTTGCATTAGGCAATAAACGCAAGTAGTATCAG [A/G] TAGGTTAGCCTTAGGAGTTTCTCTGGTCTTCAAACCAAAACCTCGTTTGTGTTTCT
2756 CaSNP4816 CTCCATGAAAGAAAATGCAGGGAATTTACCTCATAAGAGGATGTAGTATCCACTTCTTC [A/C] ATTTTTGAGCACTTCAACTTCTCTAAGTGCATTTGCATGCTCTGCTTAGCTTATCTC

2757 CaSNP4818 CTATATGGAGCAACCAGAGAGTTTCAAAGTCAAAGGTAAAAAGCAACTTGTGTGTAAATT [A/T] AAGAAAAGCTTGTATGGGCTCAAGCAAACACCTCAACAATGTACAAGAAATTCGATTCTT
2758 CaSNP4820 TGTACATGTGATCCACCACAGGAAGGGTTGTTAGTTTAACTCTTTCTGGAAGTGTCTGA [T/C] AACATCGATTTCCCTCTAGATACATATTTATCAGGAACATTTGTCACCTTATCTGGAAAC
2759 CaSNP4821 AGAAAAATTTATAAGAAAAAGATAATAATATTAACACGGTTTTATTTTATCCAATTCA [A/G] CTGTGTCTCACATCGCTATCATATCAAATAATTTATACAAAATAATTTATGATTATTAA
2760 CaSNP4822 GGTTTTATACACCAAGTTTTATTTCCACACAATCAAACCTTATTAGTACAATACAATTAAC [T/C] AAGAAATGAATAAGTCCCAACAACCTTTTTAGTTCTTCTATGAGGCAGAATAGGGATAC
2761 CaSNP4823 AGATAGTCAACCATTGTCTTCTTGTGTGGTTGTTGGTTGTCAAAATTAATTTGTTTCATC [T/C] GACGTGAACCTGTAGGATTGATGTGGTGTGTGAAATAAATATGAGGAGATGGTTGAGTG
2762 CaSNP4824 TGATATATGATTACAATTTGGTAAATTCATGAAATCTCATTAAAGGAATAATATTACTACA [T/G] ACACAAACACGACATTTGACATATGAACACCGATAATAATTTCAATACATAGAAGTGATTG
2763 CaSNP4825 TGTTAAGGTTGTACATTTATGATTTACGCTCTCTCGAGAAAGGTTTGAAGTCTGAAATCA [T/C] GTGCATTGGAAAATTAACATTCATCAAGGTGCTTTGTACATAAGTACATTTATTGTA
2764 CaSNP4826 CAGCAGCCAGTATATGGTAGCAGATGTGTCCAAGAACCTGCAATAATATCAACAAGTTAT [A/T] ACAAGTGAAAAATCGAACACTGATGCTAATTAACAGATAATCAAATGCAAAAAATCAACA
2765 CaSNP4827 CTACGCATTGGTAACCAATTCAAAGACAATCATTTATTTTCATGTCTGTGATCTACGCAT [T/C] GATAACCAATCTGGAGATAATCATTTTTTCATCTTTGCCAATATGTTTATCACATCCTTAT
2766 CaSNP4828 AAAAAAGGACATCATATGATAAAAAACAATTTCTTTTTAGTTTTAGTTCTGAAGAGCCTA [A/G] CAAGTGGAGAAGACGGGTATTGAGGAAGCCGCTCTCAAATATAACTACAAAAAGTTTTTA
2767 CaSNP4829 ATTATTTTTACCCTTGCATTGAGGGGTTTTCCATGTTAAATATCAATGTCTTTACGCT [A/C] TTTTATTTTTGATCAATTTGCTGCCATCTATATATTTGTTGTTGCCCTTACGGGTTCTT
2768 CaSNP4830 TTGCAATTGTACCGTAACACATAGGTCGATTAAGACCTGACGATTTTTTTTATAATTAAC [C/G] ATCAAACGGTTTATAATTAAGTTTGGTATTTTAGAATTATAAACTTCAAATTTACT
2769 CaSNP4831 GACTTACGCTTGATGTGATTATTAATGCAGACACAGTTATTTGCTTGTGCGACTTATTA [T/G] AGGAAGGATGTTCTTGTAAACGCTTATCAAAGGTAGATTTTTATTGTCACGTTTATCAAA
2770 CaSNP4832 GAAAAGCTTTAGAACTTCACTCTTGAAATCTCGTCAACTCAATTACAACCTATTGTATT [A/G] ACTTGCAACAATATGTCCTCATTTTTAGAAACAACGTTTGTGGAACCAAGTTGGTTTTAT
2771 CaSNP4834 GTGGGTGGTTGGCCCAATGATTGTTGTTGGGGCAACTTAGGGTGTAGGGGCAATAGCT [T/C] CCCGTGATATGGTTCAAGGGTTAAGAACAACATGTACTCTAAAATTCCTAATCCATTCA
2772 CaSNP4835 GTAAAGGTACTCCTACAACAGAACCATCACCATCTCCCTCATGCTTAACATGCCTTCTGA [T/C] CGGTAATTTCTGAGGTCTGGCATGGAGACATTGTTCCAATCAACATCCATATCTAAGTT
2773 CaSNP4836 CCATTTCTGCAATCTATGCATCGGTAGCCAATTCAGGGTAATCATTTTTCATTTATGTC [A/G] ATCTACACATCAGTGACCAATGCAAAAAATGGTCGTCATTTTCACATTTTTCAATATACGC
2774 CaSNP4837 CATGCATGGTTGTCTGCTTGTGTTGTCGCCGAATAACCTTTACCACACAATATTGTAATT [T/G] GAAAGAAAAAGTAAATGAAACTACAACCTATTGGCAAAATCAAGTAAGCACATGTATTA
2775 CaSNP4838 GTATTTTGTACTTAAGCAACTGTTGATTCTGATAAATGTTTATGTATTATGTATTTTG [T/C] GATCGAACATATTACAACCTGTTGATTCTGTATTATGTATTTTGATAAATGTCTACTTA
2776 CaSNP4839 GTATAAACTATCCATTTTGTGCAATTATGTTAACACTCAAGTTATATTCTAGACAATTA [T/C] TCATGATGTTATAGGAATATTAATGGCAATTAATTTTTGGGAATTACTTAAATTTATTAG
2777 CaSNP4840 AATTACGAAAATGTCATTACGCTCCTTGGATAGATGCATTCATGTTCAAGTACGAGGTA [T/G] CAGATTTTCTGGGTACTTGGGGACACGTCGCTGCTCTTTCTCTTTCTTTAATGTT
2778 CaSNP4841 CCTTAAATAAAACCAACCTATTTTGATGAGATGAGTCATAATACCACATAATGTCTACAC [A/G] TGGATAACTCCATCACCTTTAAATTACCTAAAGCTTCAAAAAAGGACCATCAATTTGAAT
2779 CaSNP4842 ATGGTGGATGCGCTGCAACTGACATCACAAGTCACTTATTGTTTGGATCTTTGTCACAT [C/G] AAAACATTTGAACCATATTTTATTTGTTGGGTAATTTATTTTACAAAAATAATTGACTA
2780 CaSNP4843 GGACATTCTCACACATAATTATTCTAGAAGATTTGGTTGAATATTTATTTTGGAAATTAAT [T/C] AAACCTCAACGATCGTATCCCAAATCCTATCTTTCAAGATTTTTTTTTTGTAAAGATCT
2781 CaSNP4844 GAATGTTATCCAAATCGCTTAGACATTCCTCACTTGAATACCTCAAGATCCACCGTGTT [A/G] TCACCCCAAGGTCCAATAGAGTTTTGTTTCCCTGTTATGACTATGTTACTTAGCCCTCTT
2782 CaSNP4845 AGTGTATGAACAACATGTACTACCAATTTGAAAATATTAATAATATAGGGTTCCTGAA [A/G] GGAAAAGGAATACCTCTGAATAATTAATCATATTGATATATTGTGAATGATGTGATGT
2783 CaSNP4846 TTACATTAACATCTAATATGTTTGGATTTAATGCTTTATCAATGAAGATATTTGAACCT [C/G] TTTTTGAGCTTGTGCTTTGATCATATTTGTTGATCTTTGCTTTCATATAAAAAACATGTA
2784 CaSNP4847 AATACCTAAACCTAAATCAGTATCCTCTTCTCTCTTCCAAAAACATAAACACGAAC [T/C] GCTCTGCGCTGCGCCTCTGCCTCGCCGCTTAGTCGTTATCAAAAAAGGTTGGATTTT
2785 CaSNP4848 AGGTAACATTATGTCATTTTTTTCTTCAATGATACAAAAATTTATGATATTAATAAT [A/T] TTTTTAGACTTTTTTCATGGCGTGAATTGTTGATTGACAAAACAGTTTTGAAAAGATATAA
2786 CaSNP4849 TCACAAACAAAAGAAAAGAAAAGAAAAGAGAGAAAACAAAGTCTCTTCTTTTCTCA [T/G] ACCATCATTATCATCAAGTCAAATTTAATTTGTTCTTTAATTAATATATCTCA

2787	CaSNP4850	ACTGACTTTTGTCTCCAACAGCTCCCCAACGACGACATGGTCTCTACAGAGTGACATAA [T/C] ATAGATGACAAATTTACTATGAGGAATCGATTAACATAGAAAGCAGATAGCAACAACCAA
2788	CaSNP4851	ATTAACATGGTGTGCACATAAGTGTGTAAAATCAATTCCTTAATAAAAACTAGGACAACCA [A/T] ACCATAATAACAGACACAGATACCCCTGCTGGGAAAAAGGAACAAAAGAATAATATAATCC
2789	CaSNP4852	TTTGAATAACGTATTCCTAGATGAAGAAGATAAGAATCCAGCCATAATTAGTGCAAGCTT [A/G] AGTGAATTGCAAGAAGAAAAAGCTGTTGAGAATTCACGGAAGCATAAGGGGCCATCGGT
2790	CaSNP4853	TTTCACTATTGTGTAGTAGGAGGTAAAAACGATAAAAAAATATTTTTGATGTACTTGGAAA [A/G] TAGGAGGTAAATATGAGGGAATGAACCATAAAATTTCTCATTTTTATGGTTCATAATCATAAC
2791	CaSNP4854	ATCTTTGTGAACAAATCAGCAATCTGTAAAGAAGAAGAGACAAACGGTAGAGTAATGATT [T/C] TATGCTGAAGATGATGACGAGAGGGGTAAACGAGGAGGATCAACAATCGCAGGAGGTGGTT
2792	CaSNP4855	ACAAAAGTTTTACAAGGGTACCAAAGACCACAATTATATGTCATTAAACATAGACATCAATA [T/G] GTGCCTTCTAATGTCTTATTCTATGTAACATCATGTAGTCAATGAACACTCATCTCCGCA
2793	CaSNP4856	TCCAGCTACAACACCAAGCTATAGTGGATGAAACATTAACCTTGAATACTTCAAAATTAAT [C/G] AGAGTAACATTCTTATCTTTTGTGATAAATACTTCTACTATATGTTAACTAAATATCCTA
2794	CaSNP4857	TCGACCAATTTGTCATCAGCGCTAAAGGCTGCAGAGTTCGTGCATGAGTGAACAGAAC [T/C] TAGGGAAATACAAATTTACGTGTTGATGGTAAAGGAGAGAGTGAACATAAATTTAGCGG
2795	CaSNP4858	CCTACAATATTAATGTGAATAAGTGATTTTACATTTGATTCATAATTCATGATTGATAAAT [A/T] ATTTAGCACCCATGAAAATTCAACTTCTAGGGATTTTTTTTTCTTTCTGGATAAGAAGGAG
2796	CaSNP4859	ATGTGAAGGGAAAGTCCGAGAAATGCTCGAATTATATCCAGTTCAGAAGCTGATGTCTC [A/G] TATATCACCAATTGCTGTAATAAGCACCATGTCTTGTCAATGCAAACCCACAATGTGGA
2797	CaSNP4860	AAAGATGTTTACCCTTTGCTTTATGTATTTTAGCAATTAATGTAGATATAGAGAGTGGA [T/C] TAGATAGATGCATTTGGTGTATACGAGGGGAATTCAGTTACCCTTTTACAATATTTTTCTCT
2798	CaSNP4861	TGTTGCCTTGTAAACCATTTTTTTTTGTACTACAAGTGGTTAAGGATCTAGACTTGATAA [A/C] ACCTTTGTAATTGTATGAGAAAGTGTTCAAATCTCCCTGAAACCTTCTTGGAGAGACCC
2799	CaSNP4862	ATAAATATTACTTTTTTGTATGACTAAAAATGTAACCTGTTTATTTATTTTTTCAAATCT [C/G] GATATTAAGCATAGGTATAAGGTTTTTCAAACCTCGTTTCTATGAGTTGTTTGTGTTGA
2800	CaSNP4863	GGGAAAGGATTGAATGGTGACTAATATTTTTAATTTTTTGGAAAGGGTTTTAAATCCGC [A/G] AACATATAGTTGGTTGAGCTAGGGATAAAGAGTTCTATAAAAAACCATATATTTTGGTGGT
2801	CaSNP4864	GAAGGAGATTCAAAGGAGTCGTTTGTATGATGATCATAGACTAGGTCAACAAAAATTGAC [A/G] CAACTTCTTAGGGAAAAGGATTTAAGGGCTTGCTTTAGGTTTCATAGTGGAGGATAGGAAT
2802	CaSNP4865	ATGGTGGAAGAGTTGTATTCCGCTACTAAAAGTGAAGAAACTGACCTAAAACATGAAAA [T/C] GCATATATATATGGAACATTCGAATATGTATTTCGGCTACAATCTGGATGAAATCGAATA
2803	CaSNP4866	AACTTCTCAGGATGATACTGTACAGAACCAGCTTGTCTTGGCTTCTGGCAAAGCTAGTGC [A/C] GTTGGAGAAAAGGAACATGGGAGGTTCTGGTGTACTTGAGCCTTACCATGTGTAGCTGC
2804	CaSNP4868	TTTCTCTATTCCCTTCTTCTTCTCATCTTCCCTTCCCTCCTCATTCTTCCACTTCCCTCGCAA [T/C] GTACTATGCGTTCTTCTCCTTCCGTCGACATTTATATGGATTATTTCGTTGGTGTGTTGTT
2805	CaSNP4869	TCAGCGAAAAGCAATGTAGAAAACCTTCGAGTTCGACCTCTACACAATCTAGTAGAAGA [A/G] CCGTTATGGAGAAAAGGAGAACGAGAAATGAAAAGATGCAACAAGAGGTACAAGAGCATC
2806	CaSNP4870	GAACATGTAAGATTTAAACATGCACATAACAGGAGCAAGATTGTATGGAGTAACAACAAC [A/G] TGTCAACAAGAATAAGGAGTAGGTGATGCTTATATATATGGTGTAAATCCATATGAGGAT
2807	CaSNP4871	GCAAGATTTCAAGTTGACCCCTAGAGAATCCCATTTAACTCTGTTAAGAAAATCCTTAGAT [A/G] CCTAAGTAAAGAGGGTATATACATTCATCAAAGTAAATAGGTATATACATTTCTAGTACTA
2808	CaSNP4872	AGCATTCTTCTCCTAAATTTATAACTGAGTTTTGGGTTCCGCGTCAGATTCAAACACTA [T/G] CAATCATCTTGTTCGAAAATACGGATTTCCGTCATTTTTTTTTCGGGTGGTACGAAAATC
2809	CaSNP4873	TTCTACCACCTAAACACAATACATCCAATTCTAGAGGGAGAGATCAGGCAGGGAGTAAG [A/G] AAGATTTGAGAGAGCGAGAGGGAGCGTAGAGAGAGATGCATAAATTTGAATGTACATCA
2810	CaSNP4874	AATACTTTATCGTTCACATGCATTTTAAGAAATAAAACACTGTTCTCACAACTTCCGA [A/C] GATCATCATAGTAGAGATCCAACATTTGCTATAGTGTATCAAAATCATTATAATAAGTAG
2811	CaSNP4875	GGATTTTCTTTGCGCTTGACACTCTACGTTTTTCAATTAAGCTTGGGGTTTGTATCCGCTATC [A/G] CACACGGATCTAATATAAATAATTTCTGATATAATAATAAACCGAATTTGTTCTGATATA
2812	CaSNP4876	CTGCACCTAACACAACCTTCCCTCACCAGGCTGCTCCACTACTAACGTAACACAGTTGA [T/G] ATTTCTTACCTAAGCACCAACACCAGACTTGAGAAGATCCACAAGGGACAAACATCCAC
2813	CaSNP4877	ACATTATCTTTTTGAGCAAGATTGAAATGTTTCAGTGATCATAAGAGTCTACATTATTT [A/G] TTCAATCAAATGGAGTAGAACATGAGAGAACATAGATGTATGGAAGTTTTTAAGGATTA
2814	CaSNP4878	ATATGAAACAACTACCGAATATGAAACGACTACCAATATGAAATGACTACTGAATGATT [A/G] CCTAATTGATAGAATTTAAATAGGAAATAATATTTAATAACATAATATATATAGGCCGA
2815	CaSNP4879	TGCTATCTGTTTTATGTAATGTGATATTAAGATTGAGCATCTTGATATATTTTCAAGTTGAA [T/C] AAAGTCGTTAGTGGACCAAGAAGTGCAGGAGTTATTGGTGTGATCCGGTGTCAAGAGAAAGT
2816	CaSNP4880	ACCATGTGTTGCAAGTGAAAAATTTTATACTACCCTTCAACAACTTTTTATAGAATGTA [A/C] AATTAGTCAACTCCGGTGTGTAATCAATCTTATCAAATTTTTATATAATTTTGACATACTG

2817 CaSNP4881 CCGGTTCCGTTGTCGCAAACGACGACGTTTTACTGTCCATGATGCGATGCGATCGCTGG [T/C] TTCGAGTTTCCGTTTGGCTTCGGCCGAGAAGGAAGTAGTAAGCACGGGGTTGGTTGGGG
2818 CaSNP4882 GCATACTGGACAGTGTGTTGACAACCTTTGGTGGGACACAAACAGACATTAATAATAAAACA [A/G] CATTGATGACTGAAGGTTGGACAAGACTAAGATAGATTTATGGGATGATCAATGGGAAGTC
2819 CaSNP4883 TTACTTGATTGATATCATTTTATCTAGTAATTCAGATTGAGCATTCTATTAATTATGAGA [T/C] CATCACACATTCAATAAGTATTAACGAAGTTATTTGGCCATCTGATTTTGTCTCTCTGTTT
2820 CaSNP4884 TTACCACATCCATTTTCTCCACATACCAAGCAGAAGTTCAATAAAATTAATACTCATGATC [T/C] TAACAGAAGTTCAACCGGTATACCAAGCAAAGTCAATAAAATTAACAAGAATACCAAGC
2821 CaSNP4885 ATTATGATGAATCAGAAATAGAGGATCCTAAAGAAGCCAACCTTATATTTATTTGGTCAGAT [A/G] CTAAAGACAATGAGGTAATAAATCTGAACTATGTCCTTTATGTGAACAAATGAAAAAG
2822 CaSNP4886 TCTCTCAATTATATCCCCTAATCAACGCAAACTAAATGACAATTCTTCCTTCCATTCTT [T/C] TTATTAAGTACTACTACTACTCTCTCCATAAATTCCTCTGCAACAGATACCATAACCC
2823 CaSNP4887 GTTTAAAAAATCACAATTTATGCCACAAAAATATTTATGGGTTGATTCGCAGACTAGGT [T/C] GCTCTTTTTAAGATGTTTTACAGCACTACCCAAATTTGTGAAGATAGACTATCAAGGCAG
2824 CaSNP4888 GTAGCGATCAAAATTCATTCTATCATGAAATATAGATGATTGGCCTCTAAATGTTAATA [T/C] TTGAAAACAGGGGCATAACGACCAACAATACAGAGACAAACAACATCAACAACACAAGTT
2825 CaSNP4889 CATGATGATAATCTGATTCTTACTGGGTATGTTTTCCCATCTAGAGGTCCAATTATTAC [A/T] AATCTGTTTTATTTTTCTGTTTCAACTTATGTTGTAATTCATATCATATCATTTTGGCA
2826 CaSNP4890 AACCAATTATCTTCTGATCAATTTGAAAACCACACTCCTCGTCTCATTGGTATAAGAAGC [A/G] ACTTCAACCTTTTTGTGAAATAAGCAAGACTACTAGGATAATCTGGTGCCCATTTGAA
2827 CaSNP4891 CATTTATTTAGTAAGAATTTGAACAATATTAATGCTTATTTGGATTTGATGTTGAACAAT [A/G] CGTAGCATATATTCATACACAAAAATGAAATTAAGATCATCTCTTTAGACGCTCAAAGT
2828 CaSNP4892 CAGCTAAGGTTTAAACGATACTTCAAATTAAGTCGCTCTAACTAAAATTCATTAATCG [T/C] TTGAGTCCAACCATTTGATTAATTTGATTTATAATTAGATAAGACATTATGTGATATAG
2829 CaSNP4893 AAACCTCATGTCTCTGGATTTGCAACGTTAAGGACGTTGAAGTCATTGATTGAATCTATCT [A/G] ATTTGAATCGAAGTTAATCTGAATAAAATGAACACCGTAACTCTACGAGAAAACAAAACA
2830 CaSNP4894 TGGCAGCATCTTGGAGTGAAAATGGGAAGGCTCTCAGCTTAATGTGGTCTCTATGACTC [A/C] TTGAGGCTTCATGGTAGAACACACAACATGGAATTCCTTCAAGTGTTTGTGGGGATCCTC
2831 CaSNP4895 TCAGTTGATATATGAAGCATGTGTAATCAGTAAATGGTACTCAATTTTCTTCTAATATC [T/G] CTAATATGTAACAATGTGATTTTCTGATGGATAATTTCTGATAATCATAGTGACAGTA
2832 CaSNP4896 CATTCAAGTTCTGTGCTGGCAAGTTAATAGTAGATTGAGGATTGACGTTTACTGTTTACT [A/G] TTACTGGCAAATAGGTAAGGTTTTGGTGTGAAACTGATTGAACCTCACTAAGTGTGAAA
2833 CaSNP4897 TTTCTCCACATATGCAAATATTTCCACCTCGGTCAAAAAGTTGATGTGTTTCTCTATA [T/C] ACCATCCACAATCTTATACTATATCTCTATTTAAATATTATCTACTCAAATTTTCTAA
2834 CaSNP4898 ACCACTAATTGATGAAATTAGTGGTTAAAACACATAACATATGTTAGAACAAATCAATTT [A/T] AAAAAATATATGAATGAAATGAATAACCAATCAATATATTCATGCACGAAAATTTAT
2835 CaSNP4899 TGTTATGCTTTCATTTTGGGATATCTACTTTTACTATGACTTCTTACGTTGCTCTGCT [T/G] TGGTTGATCCAGTATTTCTGAGTCTTTGTAAGTATGATAAGGAAATGGACTGTGGAAT
2836 CaSNP4901 ATATTTAAACTGTGTTAACCATCTAGATTATGTTAATTTTATATGTCAAATTTGTGTCAA [T/C] ATTATTTCTCGTTCATAACTGTTTTACTTGGTATTTAACAGTGCATGTGCAAAATAGCTT
2837 CaSNP4902 GAAAATAAATTTCCATTTTATACATGCAATGTAATTTTGAATCTAGGCTGGGTTTG [C/G] ACTTTAGATTCTCGGCACAGTAGACGTTAATCCTATTTCCATTTTCTCACTCCATTCC
2838 CaSNP4903 TTCTTAAGACGTCCCCTATTATGTGTGTGGTATGTGGTCTTATTGAGAAGCACTGGCC [A/G] TTGATTTCTTAGTTTTCTGAGTTTTTGGACACCTCGACTCAAGTATGTACTTAAATTTG
2839 CaSNP4904 TGTATTGTAGACCTTTGATATTATTTGGTTATAATACATATGATATTAATTATATAAAG [T/G] TGTACACATAATGGAATCCAACACAAGTGGTTAATAGTTAATATGCAATGTATGACTGAT
2840 CaSNP4905 CTCATATTAAGTGTCTTTTAAAGGTAATGCAAACTTAAGAAAATGATTACTTATACAA [T/G] TTTTCAATGCAAAATAGTATGTTACAACAAAATATCCTTGTACTTTATTTATTTAAT
2841 CaSNP4906 GATAGATCATAGTTATGATTATGAACATATAGGTAGACCATCTTGTGGTAGCAAACCTC [T/C] TTCTTGATCCAATGTATCCCTAACTGCCTTGTATAAGATTATCCATGAAGAAGAGTAGAC
2842 CaSNP4907 GTAAATTCATCATAATTAACCTTACACAATCTGAGGCTCTGGGTTCTAATCCGGGACAA [T/G] ACGTTCAACCTAACATTTATCGATATTTTCAATGAGCTATGACTTAAGGATATTTTTTC
2843 CaSNP4908 CGTACTTCAATTTTATCCAACCAATTCATTGTAATTTTATAATATGTTTGAATTTCAAT [T/C] AGTTTAACTCTTTCATAAAAAAATCTTCAATTTTAAATTTAATCTTGAATAATTTAAA
2844 CaSNP4909 TTAGAAACAACAACAATAATAATAATAATAATAATAATAATAATAATAATAATAATAAAGAAAGCTTA [C/G] TATGTGAAAGCGTGCACAAAACAAAATTAAGATATCCATTATATAGACAGCAATAAC
2845 CaSNP4910 TTCAGTCAAGTTGGCCTGATTTACAGCGCTGGCTTGTGCTGTTCTTTGAAGTGCAGATT [T/C] TGATCTTTTAGTTGTTTGGCATTGGCTTCAGAACTGCTCTGATGAATTTCTTTTTCTTG
2846 CaSNP4911 TTGTTACTCAATCTCAATCTATCTATATATAGAGATATCTAATAAATCTATCAATCCT [A/C] TCTCGAGGATCCATTTAGTATTTGTGGTTTATAGTTGGATGTAGAGTTATTAATGATAG

2847 CaSNP4912 TAATAAATCAAATATCACAATAATATCAAATGCCACATTTAACGAAATTAATCAAATAT [T/C] ACAATAATATCAAATGCCCAACATTTAACGAAATTAATCAAATATCACAATAATATTAA
2848 CaSNP4913 TCTCCCTTAATCTCTCATCTCTGATTTCTATGAGTCCTTTTGACAATTGCATTTACCTCT [T/C] CTAATTTTCCAGCAATGCAACACAATGCATTTACAGTTATTTATAGTGCCTAAAGGTACA
2849 CaSNP4914 TGTATCCACCCTCCAAACCAGGTTTCGCACAATGAAAGTAAAGGGTTGTTTGCAAGGTGC [A/G] CCTATTTTGGTCTCTATTGACAGTGGAGCCACGCATAATTTATATCTCCTAAGGTGGTT
2850 CaSNP4915 TTTATCAATTGTGATACTTAGAGTTTTTAACTGGACTAAAGTACTTGATTATATCAATT [T/G] TGTAGTTGTAATATGAGTGTGTTGTTTAACTTTTAGACAATATAAATTATGTTGTGATAA
2851 CaSNP4916 AAGTATTTTTCTTAGAGTGTGATGGTCATTGTTATAATCATCTTGTAGAAAGCAACTACT [T/C] AAGTTCCAAACATTTGGATTCCACTCGAATGTGGTGTAGTGTGCCTTCAATAATCTGA
2852 CaSNP4918 AAAGCTATCATAAGATATATACAAGAACATTACAAAGCAACAAAGAAAACAAAATCCATA [A/T] CAACTAATCTAGGGCTGCTCCTCATATCACCAATGGGAGAGGTAGAGACTGCTGTATTA
2853 CaSNP4919 AACGAATGTTGCTAAGCATTTTTGGGCAGACGCGGTCAATACCTCATGTTACATTTCAAAA [T/C] AGAGTCTGTATCACACCTATTTGAAATAAGACTCCTTATGAATGTGGAAAGGTTAAAAG
2854 CaSNP4920 AATTCTAATCTACTTGGGTTCTTCGCCAATGTTGTTCCACACAATAAGTGAAACGGGATAA [A/T] TAGATTAAGATTTTTGGTTTTCAACGGGTTATTCTAATACATTTTGGTTATAGCCTATCT
2855 CaSNP4921 GCTATCTACACGTGTCAGATGCATACAAAGGGCCAATGCCCTCGCTATGTAAACGTGTCA [T/G] ATGGACACCAAGGGTCAGGGCCATTGCAAAATAGAAGATGTCGTCTCGCTAATGATAAGA
2856 CaSNP4922 TTTCCCTATAATAAGAAATCAATGACCAATTAGTATACTTTTCATATATATCCCCAACCA [T/C] AACACATTCCTAACATTTCCCATTTAAAGTCCTTTGTATACCTGCTTGCCTATACATAGG
2857 CaSNP4923 GGAAACTCTTTATTTTTGCAATAGTAACCAACTTGTGTTCTTTACTTTTGTAGTGTAGCT [T/G] TGATTTATTATGTGTATGATTGTATAGATGCTAAAGTATATTAATAAATGAATGACAGT
2858 CaSNP4924 TATATGGCTCCTCCAATTCTAACTTTACATATCTTTGGCAACAAAATAAGTTATATTGAC [A/G] TTATCTTATCCCAAATGTTCCAGTAATCATTTGCAAAATATGAATCCGATCTCACGATGTC
2859 CaSNP4925 TGAGTTGTCGGTAAATTTGGGTGATCATGAGAAGAGTTGCAGAATCTCCATTTTGGGTGA [T/G] CATGTGGAGAGTTGAAGTATCCCCAACCATGTCATAGTGAGAGGAGGGTTTGGATGATCA
2860 CaSNP4926 GTCATTGGATTACCATTTAGGTAATTTTCGTCCTCATAAACTTATTCTAGTTCAATTAG [A/G] GTTTTTAACCAATCTTGTGCATCGAATAGGTGTGTTTGTGGCATTGGATTAACATTTACA
2861 CaSNP4928 AAGATAAGAAACATTAAGAAAGGGGAGAAGTGAGAAAAGCCTCAGATATAGAGAGCTTTT [A/G] GTGTGATTTTTCCAACGTAGGAGAACCCCTCATTTTATGGAGGAAATCCGCAACTGGATCTG
2862 CaSNP4929 AAAACATATATGCCAAAAATCTTTCTTTGCCTTATCTCTCCTTCCACATAATTACCACA [A/C] ATTTTCTATATTTTTCGTCTATAGGTTCACTCTCATTTAGTATAGGTGACAATTTATTT
2863 CaSNP4930 TTTGACCATCATTGCACCGCATTACTCGAAATATTTTCTTAACCTTCAGCAACCATTTCT [T/C] TGCCTCAACTATATCAGAATTCCTCAAATGGTGGTGGATTGTTCTTTCCGGAATTCAGA
2864 CaSNP4932 GCGGTTGTTAGAGATAGGTGGTGGTGGGAGGTGAGTGGTGCACAATGATGGAGATAATCG [A/G] TAGTGGAGGTGATGATTGGAGGTGGATTGTTGAAGGTGGTAGTGGTGCATGGTTGTTGGA
2865 CaSNP4934 GGCTCAAATCTTATTTAGAGGTAGAGTCAAACCTTTCGATGGAGTCCATCCATCTGATCA [A/T] CACTTGAAGAGTGGAAATGTCAAGCTCAAGACACTAAACGAGCGCTTATTGGGAGGCAACC
2866 CaSNP4935 TTAACAATTTGTTTCTCTAATTGTTCTTTTAGCTTCTTAGTCTTCCCTTTAGTCAATGGT [T/C] CCGCTCTAGTTCTCGAAGCTCATTAACCTTCATGTAGGGTTGGTCCACATCACCAAGAC
2867 CaSNP4936 ATTATAATTTTGATTGGCACACCAATTTACAACTTCACCTTGTGCTAGGGTCTAATAC [A/G] AGAGCAATCAACAACAACATGTTTAGATTATGGGATTTCCCAATACTTATCATATTTCT
2868 CaSNP4937 AGCATCTTCTGGTGCAAATAATCCATGTGCTTAACCCGTATTTGTGTAAGTGTGAGTGGCT [T/C] ATTCAAAGTAATCCAATGTTTCACTCTGTACCAAACCTCTCTATAGCAAAGCTCTATATA
2869 CaSNP4938 TGTTGTCTCTGTTAATTTCTGGACCCAAACAAGTGGGAAATGATATCGACGTATACTTGA [C/G] TCCTTAAATGAAGATTTAAAAAATATGTGGGAGACAGGTGTGGAAGTTTATGATGGGTA
2870 CaSNP4939 TGAAGCCATAATCCAATCTCAGCCCTCTCGATGCAGTCAACCCACTTCGTATTCGCCGTCA [T/G] ACTAAGCCTATCGCTGCCGCATCACTGTTTCCATCACCTCACTCTCAACCTAGCTCTCG
2871 CaSNP4940 AATTGCATTTCTTCAATTAGAGGATAAGTCTAACTTTGATGAGCGAATGATGTTAAGATA [A/G] TGGACTTTTAAACAGAGAGTTGACTTTATCATAGAGTTGACTTGAAGTGTGACCATACGA
2872 CaSNP4941 CGCCTATAATAAAAGGTTGATTGATTGTACTCCAATTAATAGAATGACATTTACCTCCCC [A/G] TATGAACTGCCTGGTGCAGAATTAATTTATCACATATGCCTTATGGAAGCCACAATTA
2873 CaSNP4942 GGTGTTGGTTATTGTCCATGGGTTGATGACTACAGGCGGAGTATAACCAGGGTGGGAGA [A/C] CATATATAGGAAATGCATAGCTGTGTACGAAAATGTGGGTTAGTCGGGGTAAAGCCCG
2874 CaSNP4943 AATACTTAAATCATTTCTACCATAACAATACAACTACACAAAAATGAATCGCAACACATAA [A/C] ACATAGTGAGACAAAATATGGAATCAATTAATCAAGCATAACACAGCTAAGAATTTATA
2875 CaSNP4944 TGTACCCCAAAGGATACCTAAATTTGTGAAGATGAGAGAATGATTTGTAAAGACCATAA [A/T] TTTAAAGTACCATTTATGTATTTTTGGTGTATTTTGGATTTTGGCTCGGAGGCTTTTAAAG
2876 CaSNP4945 CTCCCAAAATCAGGATACTCGTGATTAATTTTTGCCCATTTGTGGAGAATCTGCAGGGTGT [T/C] GAACTTTCCATCTCTAATTTCTTTCATCTGCATGCCATGTCAAGTGTGTTTGAATCTTCTT

2877 CaSNP4946 CTAGCTTTAGACAAGGTCATATCCCAAGCAGTCGCTGAGGGCATAACTCAAATCCAC [A/G] ATAATTGTAAAGGGTCACCAACCTAATTAACAAGTAGCATTAGCAAGTATATCATGATA
2878 CaSNP4947 ATATCACGGATCACCCCTGCAGACTCAAATTCCTCGTGGAGTCTCCTTACATTGCACGGG [A/G] ACAATGTTTTTGGCTGGTAGCGTTAGATGCATTTTATCTGTGATCTGTAGTATTGGATT
2879 CaSNP4948 CTGAGAAGGAGGCCAATTTCTGAAGTTGTATCAAGGGAATCTCACGATAGCGGAATATG [A/C] GGCAAAGTTCGATTTGGGATTCGACCCCGTTTTCTGTATAAGGAACTTATATGGAGTCC
2880 CaSNP4949 ACTTTTCTGACATAATAACAACAAAGAAAAATTTAGATTTCATCGGATGAAAGAAAACAGT [T/C] CAGTTCATCAATTTAATCTCGAAAAGATTACATTTAAATTTGATCTAAGTAATATATTTAA
2881 CaSNP4950 AGTAAATAAACTCAGTCAATACATGGCTCAACCAAGTACAGTCTCATTTACATGACATTC [A/G] TCATACACTAGTATTTGAAAGGCACCTCAACAAGAAAGTCTACAACCTCATTTCTGCATAT
2882 CaSNP4951 TACTATCTTTTCAATTTGTAGGTAGAGTAACTCTTTCTCGATCAACTATATCTAGCATTCCT [A/G] CTTATGTGATGCAAACCATGTCAACTCCTTGTCTATTTTTGATGAAGTTGAGAAATTAT
2883 CaSNP4952 TACATAGATAGTAAATGTCATGCTCCTTTTTCTGTTTCATTGTGTTGCCCTAGCACGCA [A/T] CCCATGGCCTAGTCGAGGACTGTAAGATACATAATCAAGGGTCGGTCCGAAACTGGGGGG
2884 CaSNP4953 ATCTTATAGCATATTGTGATGCTGATTATGCTGGAGATAAAAATCAAAAGAAAAGCACAA [A/G] TGGAGCATGTCAGTCTTTAGGTGAAGCATTGATAAGCTGGTCTTGTAGAAAACAAAACAC
2885 CaSNP4954 TGTACATAAGGTAAAAAATACTTTAATTTGCATTTATTGGTAATTAATTAATTTATTG [A/G] TAATTAATCTAAGTTGAAATTTTCATTGAAGGTTTTTGTATGAGAAGTTGGTGTGCTTGC
2886 CaSNP4955 CCCCAGCGCATGATCAGATAACGACTCCCAACCTACAGGTTGACCTACAACCTAAACCAA [C/G] GGATCCACAGCCCCAAAGAAATCCAAAACCAAAGCTCTGATACCACAATTGTAACACCCC
2887 CaSNP4956 TGAGAAATCAATTAGGTAATTACTAAAGATCAATCAACAACCAATACACAATTTGAATAA [T/C] ACTTTAAATAAGATCTAAACTAAACTTAATAACACAAAATACTAACGCCAAGAACTACAA
2888 CaSNP4958 TCAGTTTCCAAAGCTAACAGGATTTCTCCATGACCATATTTCCGTGTTAGTAATCATTG [A/G] TCAGGAAACAAAGGTGAGAGGTTTTAGTGAAAGTTGTGTCTTGGCTTGCATGTATATATC
2889 CaSNP4960 TGGCTTTCTTCTTGTGAAGATTTCCATCAGCATAATCCCATAGCTGTACACATCTCCTTT [C/G] ATAGAAACTATTCCTTAGATCCATACTCTGCATTTTAATACAATAAAATCTTCTTAAGT
2890 CaSNP4961 CCACCTAAAGTTAAACATACTCGTCCCCACATGTAACCCCTACTTCAATTTGTTTTGCTTT [A/T] AATGTAACGAATGTACATTTTCCAATATTGTCATTTCGATGTTGTACGTTACACTCTTTAT
2891 CaSNP4962 GGATCATTCCGGAAATGAGAAAACTGCCTTGCATCAATCTTGGAAAGGAAGATCTTTGA [C/G] GGTCTAACAGGCTACTCGTCTTTTTATCACGTATACAAAGAGAAGAATAACTCTGATATT
2892 CaSNP4963 CTATGATCTTAATTTGCTTCATCATCATTGCCCTTAGAAGTGTGGCCCACCATTTACAT [T/C] ATTGTTTGTCTTTTGTCAATCACCTCTTCAGATGTAGGGGCATTTCCCTTAGATCAGCCT
2893 CaSNP4964 TTGCATAAAACCATTAAAAAATAAGAAATTAAGAACCATTAACAGTGTTTTATTTTCAT [T/C] AAGGACTAAAATTCCTTGTAAAGAGATAATAACGAAGGAACATAAAAAATATGACATTTTTT
2894 CaSNP4965 TGAGATATTTGTTAAGTTATATTTATTTATCTATATATGTTTGTGGAGGAAAAAGAAA [A/G] GAAAACCTAGAAGGAAGGAAAAGGAAAAGAAAATAGTATAAAAGGAAGGAAGGAAAAGGA
2895 CaSNP4966 TATTTTTACCAATAATACATGTACCTTTTATTTGAGCTTTATCATGTTACCAACATGA [T/C] TGATCCTCCATCCTTTATCTCCAAGGAAATAAAACAGTGCTTATCCCCTGTATATGCCT
2896 CaSNP4967 AACTCTTTATTTTGGGAATCCTAATTTTCATGTAAGTGTGGTTAAGTATGCCTACTTA [T/C] GAAGCTGATTTTGGTTGGGGGAAGCCTGTTTATTTTGGATTAAATTTCTCTGTCTCCACAC
2897 CaSNP4968 AACGAAATAAAAACAAAAACATTTTATTAACCTCAAGAACAATAAATCAACAAAATGTAT [A/C] AAATAAATCCTTAATTTAAGTATGATTGAGGATAAAATAAGACTAAAACAGTGGAAAAAT
2898 CaSNP4969 CAAAAAAATATTATAAACAATTTAATGTATTTTTTATAGTAAGAAACCTAATACAC [T/C] GCATCTTTTGTAAATATAATGTATCCATCATTATATTTTGTATCTTCGGTCGTTGGTCTGT
2899 CaSNP4970 TACAGAGTTCTTACCCCTATCATTTTCTCTTAACCTAAACATCTCCACTACTAACACTC [A/G] GTTATCAACAGCTATACTAAACAACAAATGACTAAACCAATACAATTGCAATTTGTTGA
2900 CaSNP4971 TTTTTTGTGTTTGTGTTGCATCTGATTGCTTTGGGTGCTTTGGGATTGGGGTTATATGTG [T/C] CTGGCTTGATGGGTGCTGTTTGTGGAAGCTGTTGTGTTATGAGGATTCTCTGTTTAATA
2901 CaSNP4972 CTTCTCGCATTTTCTCCTATTGGGTTGACCGTGACATTATCACTCAAGTAACACTATAT [A/G] TGACGTCCTGTCAAATGTAAGGGTCATCTCCAATAACAAACATAGATCAAAATATGCATG
2902 CaSNP4974 TTTTTATCTCACTATCTAATTGAGTAGGAGGATTAATTTGTTATTAACCTATATATTGT [C/G] CACTAGCTGTGCAGACTTCAGGCACAAGTTGCGTGGTTTTAGCATTTATTTAGCTTTA
2903 CaSNP4976 AAACCTATCTTCAGCTAATGGTATGGTGTATATGCCAACCCATTTCATGTTTGGTGTCTAC [A/G] AACTGGATAGTAAGCACACCTTTTTGAACAAGGTCCTGAATGAAATGGTGTGGTTTCT
2904 CaSNP4977 TAGTCAATACATCATAAGAAGTCAATATTGTAGTCTTAAACTTACAGATTTGTTTACT [A/G] AGGGTGTGTTTGGGAGTTTAGGAGATGAGGGGAGAACATTGAAAAAAATGAAGGATGAA
2905 CaSNP4978 ATTTTATAAATTTTATTTTCATGCGACATTTTATATAGGCAGAAAGAACAAATTCAGTGA [T/C] GGAGTTGGCTATGGTTGGATTGATGGCATTAAAGGACCATGCTGCAAAAACATGTAACATG
2906 CaSNP4979 GAAGAGGTCAGAAGCAATTTGGTGTGGTTTCTTAGAAGTGGTAAAATATCCTCAATGG [A/G] TGGCTAATATTGCTCTAGTTCCAAAGAAGGATGAAAAGGTTTCAATGTGCATTGATTATC

2907 CaSNP4980 GTTTGGATTTCTTGGGGATGTGGAGCTTTGGTTATAGATTGTAGGTCAACCTGTAGATTG [A/G] GAGTCGTTATCTGATCATGCGTCAGGGTAATCTGTCCGAGTTGTCGGGTTTCGATGTAGTT
2908 CaSNP4981 GTAGAGCTTGTCAATTTCTTGGAAAATCTCTCATAAGTTGGTCATGCAAGAAACAAGCA [A/C] CATTTCCTATCAACTATAGAGGTTGAATATGTATTAGCTGCACAATGTTGTTCTCAGAT
2909 CaSNP4982 GGTTTTGAAGATGATAGTTTGATTGATTCATAAAAAATTGTTAGGTGAGAAAGGGAGTG [A/T] TGGCAGAGAAATTAATTCGCTCGCAATATGAACATAGTGACCATCATGATCATCCATT
2910 CaSNP4983 AGTTAAAATTATTCGTAGGAGAATAATTTAATCAAATATAGAGGATTATTATCAACAAA [T/C] ATTTTAAGATATCGCACATATTGTTAAATTTATTGTCAATTGGACTGCGACAAGAGTA
2911 CaSNP4984 CCTTGAATGCTTATATTGAAATATGTTGCTCCATGGAATGCAGAAATACAGGACAGCTAG [A/G] TATAGACCAGAACCATCTGAAGGTACATGTGATATGCATTGTATTATATATATGCCTTTT
2912 CaSNP4985 CTTAGAACCACCATTAGTTAACTGAATCGGGCTAACTCATTTACAAATAGTTTGAGCAGT [T/G] ATATATTTTGTGGTCCGCAATAAATAGGTTGATGATCAGTTAACTATATAAAAAATA
2913 CaSNP4986 TAAAACTGGTCTTTGGTTGTGTTGTTGACGGAGAAGAGCCCCATTTGACTCATGACT [T/C] GCCATAGTAAATTTGTCGCTAGTGATTGGTTCAAAGAAGTTATTGATGTTGTCGTGGTGA
2914 CaSNP4987 TATTGGCCTTATAAGAACTCTATTCACCTACATGTGTGGCAGTGTTTATAGCATCAGCCCA [T/G] AAATACTTAGGAAGATTTGAGTCTTAAATCATAGTTCTAGCTAGTTCTCCTAAAGACCTA
2915 CaSNP4988 TCACACCGCATTGGTGACTGAAGTATAATTATAAATCTATTTTCATTGAGAGGACAAAGT [A/G] TGTGACTGAAGTATAACTTCCACTCTCAAGCACTATAAATACACACATCCTTAAATAAG
2916 CaSNP4989 TTTATTTATTTATTTATTTTTCATAACCCCTCAAATTTAAACAAACAAGTTGAGCACCCCT [A/G] CACTTATGTAAGGAAAGACTCCTTTATCCCCCAAGATTGAAGCAATTCATTGTTTTTCAC
2917 CaSNP4990 TAAGTGGATTGACAATGTTTTGCTTCATTTGGGCTGAATAGTGAGTAATACACTTATAAT [C/G] ACAATATGAGGCTTATGTTTTGTCCACTCACACCAATTTGGTAGGTCCTCGGGACGTCTC
2918 CaSNP4991 TTCTTGAAAGTAAAGAGGAAAAATGCAAAACCAAATGTTCATATTGTGGTAAAATTGGAC [A/C] TCTAGAATTTGCATGTTATTTAAGAAAAGAGATGAAAAAATCAAGAAGAAAAGGATCT
2919 CaSNP4992 TACCTACAGATTTTCACTGTCGCTAAACGTTCAATTTCTTGTAGTGAGTGAAGAAGCAAG [T/C] TGGTTGAGATGTTTGTAGTTGAGATCCCTATATGGGAAAAACCTATGACAGATGTGTTG
2920 CaSNP4993 AACACTTCATCTTTATATCTCCCAAGTTTGAATGACACTTGTAGGTATTTTGTGCGCATCA [T/C] ATCATTATATTTAAACTCTAGACCTTTAAGGCTTTCAAGTGAGTATATATGTTTGATCC
2921 CaSNP4994 AAGCAATATCGCACTGATGAAGCAACTTCTTGGGCAATAGCATATACAGAGCGTCTACAA [A/C] ACTGAGGATATTTATTAGGTAGATTGCCACGTGTTACCCAAAATCCACCTACGGAAACCCG
2922 CaSNP4995 TTTAGAAGGCAGACTTGATGAGCTTACATCTTTAGTAAAAAGATTGGCAATAGGTAAAAC [A/C] CAAGCAGTGGTCTGTGGTATTTGCACTTCTCCAGAGCATCCTTCAAATTCATGTCTTACA
2923 CaSNP4997 TAGTTAGAATATTCTCTCTAATTCGATCAAGTGAACCAGTCTCATATGAGTCGTCAAT [T/G] TATCGCACTCCAAAAGTAAAGACTAAGTACATGTTTCTTTGGCATTCTTGGTCATCAAAC
2924 CaSNP4998 CGACAACCTCAGACGAATTACCCCGACGCATGATCAGATAACGACTCCCAACCTACAGGTT [A/G] ACCTACAATCTATAACCAAAAGCTCCACAGCCCCAAAGAAATCCAAACCAAGCTCTGAT
2925 CaSNP4999 TAAAAGATTCACCGCAGTTAATTTAATTTATTTATCGACGAGTAATCTAAACGGCATCA [A/C] AATATCTTTTGTATCATTTAAACTCCAAATTAATAAATACTTTGGCTAAAAAGCCTCCGAG
2926 CaSNP5000 ACTTCAGATGTGAAAAGAATGTCTATATGGCACGCAAGTACAAGAACAAGACAAGCCCTG [T/C] TCAGTAGGATAACTTGACAGAAGAGCAATACATTGCTATCTATGATAACTGAAATCAACA
2927 CaSNP5001 CGGTTATTGTAGCAGTTTGTGCTAACAGAGTTTTTCACTTGAATCTTTAGTGTGTTTAT [A/G] TTTTTCTTACAAATTCATTTACTATTTCAAATAAGACTGATGTATCAAGGATTTAATATT
2928 CaSNP5002 GATGATAATAATGAGAGCTAATTTGGTATGAATTGAAAAAATAAGAAAGTCCACATAGGA [A/G] GGATGATACACACTAATAATATTTATAAGGTAGATGTATGACAATTAGAGTGTCTCAGAA
2929 CaSNP5003 TTTGTGTTGTAGTCCCTTTGGTTTTATGAGTGGTCTTAAGTACCATATTTTAGACTGACC [A/G] TTATAGTTATATTGAAGCTGTAATTCAGAACAATTTTCTACAGTGTAGTAGAATAATAA
2930 CaSNP5004 CGCTCGCACACACGCACATTGCTCTTCTCGACCATTAGTTGATCGTCACTTACTCTTCA [A/G] ATGCTTCTCTCTCGTCACTTGCCTTAGTCGTCTTAAGCTCTCAGTCTTTTCTCTTGT
2931 CaSNP5005 GTGTGTAGACTATAGGAAATGAATCAAGTTACCATTAAAGAATAAATATCCTTTTTCTAG [T/C] ATATATGACCTCTTAGATCAATTGAGAGGAGCTTTGGGTGAGCAGTAGAAACACGTGAGGA
2932 CaSNP5006 TTCATATTTAGAAGTATGAGACTTTTATAGGAATAAAAAATCTATATGTACTTGTATTTA [C/G] AACAAAGATTGTATCTTTCTCAAATGAAGAAATTTCTATCTCTTAAATATGGTTTGTAA
2933 CaSNP5007 TTGAAGGAAAGCTGCAGGTTACAATGGCCAAGCGATGAAAACACATCCAAAATAACAAGA [A/G] CGCCTGTAGCTTTGATGAAAAAGAGGAAACTAGGAAATGAGTGAATTTGCAGAAGCCA
2934 CaSNP5008 TCCTACGTCGTATTCTTGTGCAGTTAGGGTTTTAACCAATCTTGTGCATCCAATACGTT [A/C] TTTGTGTCATTGGATGAACATTTAGGTCATTTTCGTCCCTCCTAGGCTTATTCTTGTCCA
2935 CaSNP5009 TCTTGTTCAAAACCTTTAGAAAATGTCATATCTAATTTTGATAAATATGAAGAAGCATT [T/C] GAGACATTCTAGCTAACAATAGGAAAGAACACATATGCTTATATGATTTATGAAGTTAG
2936 CaSNP5010 ACTTTGTAGTCCATATGTAACCATCAACATATTAATTTGATTCTATGATATATATGCTCT [A/G] GAAGTAGGTAATTTCTATTGGCAAATATGAGACTTTCAAGTGCATGTTCAAGTATTT

2937 CaSNP5011 GTTCCTAATCTTAAGATCCTCGTCCGAATGTATAAACAAGATGCCTTATTTTTGTGAGAC [A/G] TGTAAGATTACATTAACCAAGAATGTTCTGGATAAACGAGATTGATTCTAAATAAACCA
2938 CaSNP5013 AAGTATTTTTAAAGAATATTTTTTTTTTGACAATTTTATGTGTGGATGTGTATTAATACTT [A/G] TGGTAATAATGTTGTATGCATTTGACTAAATGATAAATGTGTGCATAGTTATATAGTTCT
2939 CaSNP5014 TCTCCGTTTTACAGCTTTAATCCATGAACGTTCTTGTTTACAAAGAGCAAAATTGGATG [T/C] AATTTAAGATTGATCTGGGTACAAAAGTACATCTATCTACACTAAAAACATCAGTATT
2940 CaSNP5015 CCACAATTCATCATTACACATCTATCATCCCAAGACCCTTATGTCCACACTATCTG [T/C] CCAAAACATTTCAAAAATGTTTCCTGCATTTCTCTCACCTCAGAAAACGCATCTTCTTC
2941 CaSNP5016 CTTCAGGAGTGAACAGACCAGATTCTCCAACCATCTAAACAACCATATAACACAATCAT [T/C] AGTTTAAATAAAATTTCTTTCATGTAAGATAAAATGGAATAACATTTCTTTGAAGTAAG
2942 CaSNP5018 AAGATACCACAATTTTGGGCAATCGTCGTCTGAATTAGTGATAACCATTAGTAGTACATC [A/G] TCTGAACCTAAGTCATCAGTACCATATGAGCTTCATCATCTCTCTTTATACCTTCTTG
2943 CaSNP5019 ATTTCAAGAGGTATTATTTTATTTCTATCTTGAAAACCTTATATTGAGAATGAATATG [T/C] TGGATTCTTGAATGCAAAACATGGAATTGTGCTTCACCTACTTGACACATTTAGTGGTGT
2944 CaSNP5020 TTTTTTTTCTGAAACAAACACACTTATTATTACCTCTTAAACAAATATGAAACGACTACT [A/G] AGTGATTGACTAATGAACGGATATGGAATGATTACCAAAATATGGAATCGCTACCGAATA
2945 CaSNP5021 GATGAATCATCGATATTATACACTTGAATGCTTATGAGGTTGTGATAATTTGATTGCTTG [C/G] GTGTTCTCCTCGTGTATTTTATACTGTGCATAATTTCAAACCTCATTATTCGTTGTTTGT
2946 CaSNP5022 CCCTCAAATGCTCTCAATTCCTCAAACCTCACCAGGATGAACTATATTCTCAGTCTGG [A/G] ACATTTAAATACGCTAAGATTTTGAACAAGAAGTGCATCTCAGAATGGGCTACACATAT
2947 CaSNP5023 AATCTTTAATTTATTTCTTAAATACATTAATAATACCAAATCACCAAACATCAAAGTAG [A/G] AAATCCATTCACTTAATATAAAAAATCTTGTATGATCACAAGATGTAGTAACACCATTT
2948 CaSNP5024 TTAATTTTTTAAATATTTTTAATAATTTTTAATATTTTCTGCCTTTAAAAATTATA [A/C] TTAATAATCTCTAGTCAGAAAATTCCAATTTTTCAGTGGGAAGTGTGGTTAATATTGA
2949 CaSNP5025 GTGAAATCACCATGGGTATCTAGTGGTAACAAATGAGCAAAGTTCTACTTCTCATTATA [A/G] GATGTTTATCAAGCTATGCAAGCAAGAGGTGAATGCAATTGAAGATACCTCTGTTGATTT
2950 CaSNP5026 TCCTCCATCTGATTAGCACTCAAAGTTAAGATAACTACTATATACGAGAATAACAAATGA [A/C] AACTTGGCAAAGGCAACAAGAGGTCATGAAAATGGCAACGCGATTAGGGATCGATTTT
2951 CaSNP5027 CGACGTCTTTATGGAGTTTGTCCCGTTTGTGTAATAACATTACTCCGAAGACGATAAAC [A/G] ACTTTATTTCTTCATATCTTGGCATTGCTTGTAGTGCCTTTATGATTTAATTAATTTCT
2952 CaSNP5028 TACTAAAACAAGGGTAATAACAATCAACCTTAAGTAACATAGGCAACAGTAAAGTAAAA [A/G] GTGCATAAGTAAAGTGACCAAGCAGATTTATCTTGGTTCACCCCAAACCTTGTAGATGC
2953 CaSNP5029 AGATCCCTTTAATTTAGCACTATTGAGTAAATAGAAGTGCAAACTTTTGGTTGACACTGA [T/C] GTGACCTGGTATAAGCTATTGGAGTTCCAAATATGGCTCTATGAAGGCTATGGTGCAAGA
2954 CaSNP5030 TCAATGCTGGACAGGTTACATCAAAGATGCATGTCTTGAACCTGGTGCCAGCCAGGTA [T/C] AAGCATCGCTAGATTTTGCATTATCAATCAAATGGTACATTCTATATGGTATAAAAAAT
2955 CaSNP5031 GATAGGCTTAATTGCAGTTTTGGTCCCTCTATTTTAGCTGAATCGCGAAAGTAGTCCCCC [T/C] CATTTTATTTCTCTCCAGTTTTGGTCCCTCAAACAGAATTTTGATCCAAAACCTTGATGAA
2956 CaSNP5033 AGTTAGAGTAGAGATATGGCAAATGATCTAAATGTGAACCTTATACATGTATGGTATTGTG [A/T] TGTCCGATAATCTTATGTAACCTGAGTGGGATAAAAAGCTTGATTATTGACGTTGTTGTAT
2957 CaSNP5034 TAAATAAAAAAGTATGTGTACATTTCTCCTTACCTCTCCCAACTTTGCATTATCACAACA [A/T] AAATTTGCCAATGCATTTTGATGTAATGATGTTCTTAAGTTAAGATGGTATTATAGCT
2958 CaSNP5035 CGGAAGAGGCCCTTCATAAATGTGATACTTGAATTGCAGAAGCTGAAGAACTAGTATTT [C/G] ACAGATTTGTTGAGTAGCCGATGTAACCTCTTAAAATTAAGAGTAGATGAAGGATTTTAG
2959 CaSNP5036 CTTAAAACCATATTTTACGAAAATCAGTTTTATAAAAAACCAATTCATCAAATCACTTT [T/G] CACCACCTACATTGGTCTGAGTGGAACTAGACTCAGACCTGTAAAGCAAGGCTCGGGT
2960 CaSNP5037 CACGCTGACAATTATGACTTACAATGAAATATATACTGAATCATAACTCTAGTGAAAAAT [T/G] ATTATGATATATGAATTTAACAAGCATGGTGGTTTGCATGACTTACCCCTTAAATAATC
2961 CaSNP5038 CAGCAGCTGATGATATTTCTGGGTTGGGGCAGCCCTGCACAATGCCATCAACAATAGTAT [C/G] AATTACGTCACAATTTGGTATTATTAAGATATATCAATCATAGACACATTTCTATTCC
2962 CaSNP5039 AGAAGTTACTTAATCCAAGAAATGGTATTGATGAGTCTAGGCTTGTTCCTTTAAAAACA [T/G] CAGAAGAAGCTGCTAGAGCACTTGAAAAGGGTCCCAATGGTGGTGTGACGCTATG
2963 CaSNP5040 TAAAACCTTACAGGTCGGAGAGTAATACTGAGTTCAATCTCTTGTCCGCTCTCAGAACTC [T/G] GACTACTGCTTTTTTCATCAAGCTTCTTCATAGACACCAAGTATCAAATGTTATCCGTTCT
2964 CaSNP5042 TTCCATTGAGTCAGAAATGTATAGGAATAAGTCCGATTCCCAAGCATGTATAATTTCTG [A/T] CTGAACCAACTAAATGTATTGTACATATAAAGTTTGGATAAAATAGTTACACGCATTCA
2965 CaSNP5043 GCATCAATAATTACAAATACTAACAAGAAAAACGATGAATTGCTTTCAGTTCTCCTCTG [T/G] TGTTCTGTCTTTTACAAGAGAAGTGTTCCTTCTTTTAAACAAGAGAACTACGACGAG
2966 CaSNP5044 AACTTCACTCATCACATGTTGTTTGAAGGCTTGGTCGATAGCTTGTGGGAGGCTTGTTT [T/G] GATGATTACGAGAGGCTTATTTAGATGATTGCTAGAAGGCTTGTGGATGTTTGGTGG

2967 CaSNP5045 TTCATACACAAAATGGACAGTGTCAATTCATACAGAGTTAGCATAAGGTAACCTTGATGTGC [A/C] AAATCATTTGATTGCTTGTGTGAACAAGTTTTAATGTGTCAATGAACTCCTTCGGATCAA
2968 CaSNP5046 TTATTTTATTCATAAAAATATTTATTTTAACATTGAGATTATCAAATTTGTCACAACCTCATA [T/C] GTCGTAATTTATCTAAGATTAATAAGATGTCTCATCTAACACCAATGTTAAGGAAAAGTG
2969 CaSNP5047 TGCCAAAACAAGTTGTCCATGTTCCAATCCAATTTGAACCAATATTGAGAAGGTTCCAA [A/G] TGAAGATTTAGTGGAAAGAAAAGATTGAGAAAATCAAAGTCCCTCAAATAGGAGAATCTGA
2970 CaSNP5048 CTCTTCTCTTCAATTCTCTCTCAACTCATAGATTCATTCTTATTCTTTTTCTACCAAATA [A/C] GAATCACGCAGTCATTTTCTCTCTTTGGAGAAAGCAATTAATTTATTGGTTGTTATGTTT
2971 CaSNP5049 CTTTATTTTACTGTGTCTTGACCTGACATCATATTTAGTGTATGTGTATGTACAAGATTT [T/C] AAGCTGACCCTAGGAAATCACATCAAAAACAGGGAGATTGTTGGAACCAAGTTGGTTTTA
2972 CaSNP5050 TTAATCTTACATTGTGAAGTCTTCATCAAGCATGTATTGAATATATAGTATTATATCATC [A/T] AAGCTACTTTATCATGACATGTTTCATATAATGAAATTTTGATAAGGGCCGTTTATTTTCAG
2973 CaSNP5051 CGTCCAAATTAGTGCCACCTCACTCCTCACTGCTATCACAATTTTGGTAATACTAATTGG [A/T] AATACACGCTATAAAATAGGTATGTTCTATTTTTTTCCTAGGTGGAATGAGTTTCATGCC
2974 CaSNP5052 ATTTTTCGTGTGCTTGTGTGTCAGGCCAGGATGAGCATCTTGCTGAAATCAATTACCGAAA [T/G] TCAAAGAAATGGCAAGGATAAAAAGGTCAGAGAAGCAAATATAAATGAATAACAACAAATA
2975 CaSNP5053 TTGTACTGATTGCTATCATTACAAGTCTTTGATTATAGGCACACATGTTTATTTTCAGGCT [T/G] TTGTGGATATGAATTAGCATGTACTTGACAATGTTATGCTTTGGTTTCACATTTCACTTG
2976 CaSNP5054 TTTATTTCCCTCATTGGCATAATGATGATTAACATGTGTAGTAGGGTTATGAGTGATTATA [C/G] TAGGGTTATGAGTGATTGTAGTAGGGTTATGAGTGATTGTAGTTGATATATTATGCTCCA
2977 CaSNP5055 TATATATAAATGCACGCACACGGAATATTGAGCCATATCCAATTTGTAATAGATGAGTGC [A/T] GAATTGACTCGTATTGAATCAACCATGGCAGGATCTAAACTAGGTAGGTACAAGTCTTGT
2978 CaSNP5056 GTTGTAAACCGGAACAACCCATGTATCTTCTCCATCTTCAGTACTAAACAACATCCTTAA [A/T] GACAAAGGTCCACTCGGTGGAGAGGTAGTGTCCAGACTGCACCGTGATCCCGATCCAGT
2979 CaSNP5057 ATTTGGATTAGAGTTAACGGTGTGTTGGTGACCTGGAGAATATCCTGCTCTATTTTCAGCA [A/T] TTTCAACCAAGCAAGAGTAAAATCTTTTTGCATTAGCCTGGGTTTATTCAGATATTGCTT
2980 CaSNP5058 CACTTGAATTGACCAACTCAAGTTTACCTCAACATGATGAGTGTGCTCCTGTTTTCACACC [A/T] TATGAAATGGATGCAAGAAATTAAGCAAGAAGATGGAAGAGAGGTAGTATTTGAGGAAGT
2981 CaSNP5059 TGAAATCAATGCCAAAACGACTGTGTGAATAATGGCTATATTATACCATGATTATTTCCC [A/G] CGCTTTAGGTAAGTTAACTTGATTTAGTATCGAAATAGACCTTTTTAGAGTGTGTTTTCA
2982 CaSNP5060 TAGTTTGATATGAACTCTTAAGAGGCATGTGAGTTTGTGCACATCAGAAGCACACAAG [A/G] CATTAGAGACATACTTCAAATTCAGTCTTCAGACCCAATTATTAGAGGGAGTCTTCAGAC
2983 CaSNP5061 GTACAATCCATTAGGTCTGATTTATGAAACGTGTGCTCTGATATTTAGGATTTGACCACA [T/G] AAACATGTACCACGATTTGTTTTCCACCAAAACATGTGCCACATTTTGTTTGACCACAAT
2984 CaSNP5062 CAAATCATATACATATATTCCTTTACCATCACAATTTCCATAGTTTTTATCCGACTTCCA [C/G] GATCGATGAATCTGCAAGTATTCCTCAACGACTTTAACAGCATTTCAGCCTCATCATCT
2985 CaSNP5063 AACACAAGATATACTTTGTCAAAAATAATATTATGACGTGACACATAATGAACTATGATT [C/G] AATGTATGTATTAGATTTTTTACATTCTAGTGAAGCCTTTCAACTTTGTTATTTATCATA
2986 CaSNP5064 GATAGGCTTTAATTTGTTTTGTTCTATTTCTTTCTTTCTTACTTTCTTGCTGTGCTACAA [A/T] ATACAAATCATGTTATGCTCAACTGTGTCCAGATAAAGCTTTTTGTACATCAATTATCAC
2987 CaSNP5065 GAGGAAGAGTTAAAGGTATTTATTTATATATGAAAGAAAATGTTGATGGTGATTTTGGG [A/T] GGGGTAAGAGTTGGAGATTGTTGATAAAAAGGAATAATATAAAAATATTAATGAATGTG
2988 CaSNP5066 TTCTGCTGTTGCAAAAATGCTGTTTCAATTTGACCAATCAATTTCCGATTCTTCAAGTTC [T/G] TCTATGACACATATGAATGGAAAAGGAAGGAGAAGGTTATTGAAGGGGACCTTTACCA
2989 CaSNP5067 ATGAATCTTAAGTTATTGTATCAATGTTTCTAGTTTGTGATGGCATTGTCAAATCCATTG [A/C] AAGGTGAGCGTAAGGCAGGCACAGTTGGTAAACCATTGCTGTTGTCAGGTTAGTTGAA
2990 CaSNP5068 TTTGGCCAAAATATATATGCTAAAATGACGTTTCACAAAAGGACGAAGAGAAACCAACA [T/G] AACAAATGGACCCGTGATGCAAAAGAGTCTACCATCCGAGATAAAAATACAGACAAGGAG
2991 CaSNP5069 TGAATGTTGTTTGAATGACCTACTGCTTCAATACTTTAATTTGCCAACATTTGTTGATC [A/T] TGCGAATTCCTTTTTTTGTTCCAGATCGGAAATTTTCCCATGCTATTGATCTATACACAC
2992 CaSNP5070 ATTAAGGGAAGAAGAATCGCAAGATTAATGTTAATACTGACAACAAAATCTCTCACT [T/G] GGTTCCTTGAAGAATGTCTAAGGCTCGACGTTCACTCCTTGATCCTCCTTGGGAAGGA
2993 CaSNP5071 TCACCAACTATGACCATAATTAATAAATTTATTGATAGATAAAAAATCTGTTTAACTTGA [T/G] ATTTGTTAGGCTTTTGGAGGTGATGACTTTGTTGAATGCATACTAAGTCATAATTAGC
2994 CaSNP5072 ACCATAATGATGGTAACGTCCTCAAGAGACACCAGAGTCCACTATAGGTTCTATAAGGCAA [T/C] GCTCCACCTAGAAGGCATGGTTAGAGATCTTCGACTTTGTAACATAAAGGTGTTCCCG
2995 CaSNP5073 TTAATAGTAATACTAATGCATAATACTCAAGGAAGAGTGAGGGTATTAATTCAGCTTTTT [T/C] CTTTGCTAAATCTTACACCTCTTTCTTATTACTACTGGACCACCTTCCAATTCATATCAA
2996 CaSNP5074 TCCTAATAAAAAGGAATGTAATAACAACAACATTTGACAGAATATTATCAAATGTAGTCT [A/T] AGAAGCTTTAAGGATGTCTTTCCACATGGTCTACAACAATAATAAAGTCCAGGAGAC

2997 CaSNP5075 TGATATGAAGAGTTATGTGAATGAAGGTTGAGAGTGTGATCCATGAGAAGAGTATAGT [C/G] GTGGAGGATTATTTGGATAAAAAGATGGGAAGAGGTTACTGGTGAGGTTGTTGATGAAGTT
2998 CaSNP5076 GAATTGAAGTGGTCAAGTGGTCCATTTGCATTTATTTGTATGAGTTTGATTCTGAATCT [T/G] CCCACAACCTTATAAAAATATAGTAAATGAAGAGCAAGTTTGGCTACATTTATGAATTTCT
2999 CaSNP5078 TCCCAGCCAGCATTTTCATTCGCATGAAGGTAGCAATGTTTCCATTTCTGAACATGTTACT [C/G] TTAACTTCTTGCCACATCTTCTGTCCATATATTTGACACAATTTAATCTGTTATGGTAC
3000 CaSNP5080 TTAATATCGACTTCTAGATACATCCACAATTTTCTATGATTAAGCACTTTTAGATTCT [T/G] ATATGGAAATTTACATGGTTTTAGAATTATCGAATTTCAAATAGTAATAACAACATAAT
3001 CaSNP5081 AACTCAGTTTTTCATTTGGCCTAGCCTATTCATACATCATATAAAAGGTTTTCTCTTCATTC [A/C] TAAACACAAAGATTATTTTACATATTCCTCATACCTACACATTCAGATCATATCGTAAA
3002 CaSNP5082 CAAATTTCCACAAAATCAAAGCACATCCATGGCATAAGGTATTGTAATATTTATTTTGGC [T/C] GTCCATTTTACATGTTATTTTGTAGTGTCTCATATATATATGAATCTTCATCACCAG
3003 CaSNP5083 AAATTGTCAAAAATTAAGATATTTATTTAGCGTAACACAAATTAATTTAGATTTGCTAA [T/C] ATAACCCAACTCAAGTTAAATTCAAATAATCAAACCTTCTAAAGATAATCTAAATGTTGA
3004 CaSNP5084 CCCATGTTTAAATATGGTCAATATCACACATGTCCTATTATGCACCTATTTGGGTTTGC [A/T] TATCTTGGTAAACAGAACAATATCTTAGTATCTACTATACCAAGTCTTTGCTTGGCATT
3005 CaSNP5085 AGACACTTAGAATTTGGTGGAAAAATTTATAAGAAAACTTTGAATATACCTGTAGTCGA [T/C] GTGCAACCTCAGCACACCCCTTCATGCTTAGGACTAGACATTTGGAGTGGGACAAAATGC
3006 CaSNP5086 GAGGAAGAAAATAAAACAGATTGTTTACTTTCTATTTCTCTCTCTTTTGGCTACGAAGTTTC [A/T] TTCTCTGTATCACTCAATCAAGGTAATAATATTCCTAATCTCACAGTCTTTTTCACGAT
3007 CaSNP5087 AGTGTAAAGGCCATAATTACAGTGGTTTCATACCCAAAAAAGATAATTTTGATTTCC [T/C] CATTGTAATTTTCATGATTATGTGTTGTCTGGTTTATTGTTAATTGCAGGAGGATTTT
3008 CaSNP5088 GTCAACTAATACTTATATCTTTTTCAGGAACATGGGTTGATGTAGAAGATGGAGTGC [T/C] AACTATTTTACAATGCCTAAAGCATGTCCCATCATGTTATCAACAATAGTTTCACTTAAA
3009 CaSNP5089 AGATGCAACAAAGCGTTATACTCCATATATCAATTATACAAAGCTTCTATTTAAGGTATT [A/T] TAACAACTACAACTCTTTTCTAGCATGTAACTCTTTTATCGAGAAGTACATTTCAA
3010 CaSNP5090 AAGTGAGAGATAAGCTAATGAAATATCTTTCCATATGTCAAGTATTCCTCCACTCCAAT [T/C] GGTTTATTTCTATATAACCCCTTGTGTGATCTTTGGATGCAAAATGCATATTTTTTCTCCAAT
3011 CaSNP5091 TGAACATGTGTTGACCATATAGTCGTGCGTTGAAAATAATAGATCTTACGCCAATCCAA [T/G] AGTTGTCCAAGCACTAACCCCTTTTCTTATGAAAGTTTAAAGCGGTACCATGGAATTAT
3012 CaSNP5092 GCTGTCTAATTAATCAAGGAAAATGTCCTAGTACTTGAGCAAAAATAAACTTATGTGTT [A/C] TATGAAAAGGTTGGAACCATATGAATGAAAAGGATTAATGGATTCATTGAAGAAAGACA
3013 CaSNP5093 ATTGCAGGGTTATAAAAATAGATTGAGCTGTTATAATCAATGCTAAATACATATCTTTGT [A/T] TTGATAGTGTTTACAAATGAACACTGAACACAACCTGTTACGGAATGCGCGTTTGAATTTT
3014 CaSNP5094 TACACCTGATATTGGTTTTGATTGGACCACGGGTAAAGGAAACCCTTTTAGGTATTTAC [A/T] TATGGGGCTGCATTTGCTGAGGTTGAAATTGACACCTTGACTGGAGATTTTCACACTAGG
3015 CaSNP5095 GGAGGGACTTGGGGTTGAGGAGAAATCTGCTTCTACCACAACATGTCTTCTGGGTTG [A/T] GACTAAACAAAAGTTGCCGATATGAATGTGGAGTTACCGCCATTGATTGCGAGTTTGGAA
3016 CaSNP5096 GACACCAACACGACACCAGCGCATGTGTTTACATTCCATTAGTATTTTCATTTTCTCAAAT [A/T] TTTATTGGTGTTTACATGTCAGTGTGATGTTCAATATCCATGTTTGTGTCAATGCATCGT
3017 CaSNP5097 AACATATCATAGGCAGCATGACTAGAGTCAAGCTCTAACTAGAGACATCATGACAAGGGG [T/C] GCATGGATTAGAAGCAGCATGATTAGAGACAACATAACCAGAGTCAGAGGATATGTGACC
3018 CaSNP5098 TTATTATTAACAATATCTTTTGGTCATACGAACATACGATGTAAGCCGTAAGATTCAA [A/C] ATAAAAAATGAAATAAATCTCAAACCTGTTTAACTCTTACACTAAGAAACAGAGTTTGGC
3019 CaSNP5099 TGCAGATTCTTGGTTAGATTCTCTTTCATGGTCCCATCCATGGATGCAAGCTAGCACAG [A/G] CAAATATGAATGGTACTAATTTCCAAATTTTCAATGATTTTGTGAGGGGATTTTCTAGAT
3020 CaSNP5100 GCGAGGCCCAATATAAAAACCAAATAGGCAACAACCTAACTGATAATTGCATTTCTACTAT [A/T] ATATATATTGCTGATTGTAACAGAATCAAAGTTGCAATAACCTCACTTCATTTTCTCTCT
3021 CaSNP5101 TTTTATGAGAAACAATAAATTTGGATTAATGGATTCCCTTATGTATGCAAAAATTTGAAGAA [C/G] AAAATGTCAGGAAGGTGCTAGAGGAAGTACTAGAGGAAATTCATTAGAAGAGGTAACCA
3022 CaSNP5102 CTGCAACAATGGCACAATTGTAATGACCTACTAACAAAATTAAGTGTTCACCGTCTCC [A/C] TCCAATGTATTTAAGCTTGAATGATGATTTCCAATCTGGCCACTCTATTTCTTCAAATAG
3023 CaSNP5103 TAGTACACAGTATGTTAAATACTAGCTATAACGGATCTATAGCATTATAGCAAAGCAA [A/C] TTTGAACAAACCGCTATTTTCTGCTATCTACGATTGACAAAACCTGATTATAACAAGAGCA
3024 CaSNP5104 TAATCCAAATCAACACACATGCAATTACATATGTTCTCTGTTTTGCACCAATATAAAT [A/C] TTGTGTTTTGCTTAAATTCATTTCTCTTTAATCATCTTTAATATATTCATCTTTTCT
3025 CaSNP5105 ACGCAAAGGATACTAACAATCTATTTTGTCTGAATTTCTGTTTGCACACTAAAGGATACTAA [A/T] TATTGGTGTCTATAATAAGACTAGGAACAAGGATCAACATCTTCTATTAAGCAATGTTGGT
3026 CaSNP5107 ATGTCATGCAACTCAATCTCCCTCTGATAACATTACCTTCTACCTTAGTTGTATCTATTG [C/G] AGCTAAGAACCAAATGAAACCTCTATGGCATGTCTTCAATGTCTCACTAGCCTATTTGA

3027 CaSNP5108 TCATACACAACCTCAACCCCTCTCCGAACCTGATGTTTGCACATTCAAGAGTTCCATATAT [T/C] TATAGGTTCCCTTAGATGAGTAATATCACGTGGGAGGTAGACCTATGTACTTCATAATAG
3028 CaSNP5109 TTGAAGAAAATCCAAAAGAAATATAGATTTATCAGAATTTGTCCACCCTCTATTTGATA [A/G] GGGGTATAAAAAGGTATATTTCTACCATGAAAAGGATAAGAAAAGTAGAATTTCTCTCCAC
3029 CaSNP5111 GGTACCTGCAAAACACTATAACGCTCAAGCAAGTATTTATTCGAGGAGAGTAAGAGGGACT [A/G] GAATGAGAAAAGTGTGTGTACCTTTTTTAGTGATGGAGTCACTATTTTTATAGACTTGAATC
3030 CaSNP5112 AATAAGAGAACATGTTCACTCACACACTTAAAAAGCTCAAACATATATATATAATCATT [C/G] TTACACAAAAACTGTTTGTGAGCTACATACACTTAAGCGCATGGTTAAATAAACCATATG
3031 CaSNP5113 AGATTATTCAGAAACAATATTTAGATTTTACTCATGCAAGTTCTAGTTTGTGTTGAAAAT [T/G] AAAGTATTTAAATTAAGAGTGGTAAACAAATGTACCGGAATAAGAGTGGTCTCATTTTA
3032 CaSNP5114 AGCTTCTGCTATGGCACTCACAAGCTTGTCCGAGTAGCTGACTCTGCCACAATTAATCA [A/G] CTATTAGCATTTGCTCCTAGGGGATCTACAAGTTCGAAGGCCATATTATTCGGGTTTTA
3033 CaSNP5115 TGGGGTGATAGTGAACACAGACTAGCATATGTATCAGAAACCACAGTAATATTCAAGGAC [A/G] TAGTTCAAGTAAGAGATGATCAATGGTGGAAAGCACTTTCATCAGGTTACATAACACAAT
3034 CaSNP5117 GCTTCTAGGAGTCTGATCCCATCTGTAGAGGTCAAGGTTGACCTGTAATTTACATAAA [A/C] AACCCACGTCTCATCTAAGTTTTCTTGGGTTAGGGGTGATTTTCACAGAGAGCCAATCT
3035 CaSNP5118 TATGTCGCCGCCATCATTATTTTCATTAGCACGTGTTGTGCAGAGTCTAAAACGAATG [A/C] ATGTCAGAGCAAGACAACACTAGTGAACCTGATGGAACCAACTTTTTATCACCGGATAAATCT
3036 CaSNP5119 GTATATATGTTTCCATTTCCATGTGTGATACTATGTCTCTGTCTGTGCTGTTTCT [A/G] CAGATGGCAAAAATGGATCTTAATGGGGATGAAGAGAAGGACAACATAGAAAAATATTT
3037 CaSNP5120 CCCTATTTATTTGTGAACAGGCAACTTTGCTTGGCTTCGAAGTTTCAATGTGATCAAATTA [A/C] TATCAATCAAATTTTACTTACCAGCTAAACTTCAAATTTATCAAATCTCTTTCATCTAAA
3038 CaSNP5121 GAAACTAAGATGCCGTGTAATTTATAGAGCATTGAGATATTCAGTCCCAATTGAAGAAT [C/G] GGAAACATATTGGTATCTAGAATGCAGCAGAATGGAAATCCTTATCTTCCCTTCATTTA
3039 CaSNP5122 TGAAAAGGCGGACAGGCATTTGAGCGTGTGTTGACAGGCAAGTGAATCTCCTGTGTCTAG [T/G] GGTTCACCATTTCAGCTTAATGCTAGTACTGATGTGTGTATGCTTCATGATTTATCTT
3040 CaSNP5123 TTCTTTCAAAAAGTCTATCTCTTGTAAACCCTAATTAGATCACTCTCCACTTAAATAAG [T/C] GAGACACATGTAATAATATTTGGGCTTTCTCCACATAGGAAGGGAGCCCAATACCCA
3041 CaSNP5124 TATGTTCAAGATAGAACATTTGAACCTCCAATGCTAAACATTTTGATATATGTTATGAGA [A/G] TGAATTCCACTTTATTTTTGTGTGGTAAATCTGTGATAACGTTCAATGCTTTAGTAAAGT
3042 CaSNP5125 GGCAACTTAGCCAAAGGCATCATAGCTCTCAGTCAAGGATACGCGTCAAGAGGATGTAA [T/C] AGAGGGTACGCATCTAGAGGGTGTGAACAGTGTGATCAGAGTCAAGGAATGTGAACAGTT
3043 CaSNP5126 GAAAATTCATAATAAATAATTTTGTGACGGGATTCATCATATGAGGTATGCAATTTGCTT [A/C] TTTGTGTTCAATAATACGTAAGTGGTTCGATAATCCTACGACCTCAATTTGCCAATGCG
3044 CaSNP5127 AGAAGAACTCAAAGCAACCATTTTCAAACCTGTAGCATTTTTTGTAAACAATTAGCCT [T/G] TTCACACACACTCATAATCATTTAGAGCCAAGCTTCAGTAAATGGCCTTTCAAGCTTTGC
3045 CaSNP5128 TTTCTCTCATTTTCTAGTGATTGAATTTGCACCGGTCTACTCAGGTAAGAAAGGAACCTC [T/G] GATATTCGACTCAGTCTTTGTTATTCGCTTAGTAGTTTTAATTTAATATATCACAAAC
3046 CaSNP5129 AACCATATGTCTTCATTCAACAACCTTGCATAATGCATAACAAGTATGCATCATTATAT [A/C] TTGTATTTTACTCAACAACCTTCTAAACTAGTTTTCTTCAATCCTATTGATCTACACAT
3047 CaSNP5130 CTTTCATAAGACAAATCCTATGTAAGCTTCTGTTAATTTCTCTCTATAAATATCATT [T/C] ATCTTTGTTGCATGTTTGAATTAATTTTCCATATAGGTTGTTGACTGTGAAGAAATCATA
3048 CaSNP5131 TTAACAGTGTATTATAGATAACCTAAAATCAAATTTAAGACGGACAACAACATATGTG [C/G] CAACCTTGTTTATTAGATAAACTATAATCAAATTTAAGACGGACAACAACATATGTAA
3049 CaSNP5132 ACACTAACTATTTTTACAACCTCACACCAGTGTAGGTTGCTCCATGGACCATCTCAA [T/C] GATTAATTTGCCCTTTTTTGTAAACACAAATTTAGACTATAATAACAGGCATTTGTTT
3050 CaSNP5133 NNNNNAGATCAAATTCATGAAGATGGGATTAGTGATAATGATAATGAGATTGGTGATCA [T/G] GATGCTGGTATTTTGTATGATGAGATTGTTGATAATGATACTTGTGATCATGATGGTGAA
3051 CaSNP5134 CTCTAATATTATCAAGATAAGGCACATGTCCCCAAGCATTTGATTTTCGACCTAATGGTGA [T/C] GCAAAAAGAACAACCTGGTCAAGGAAGTGGATTTTCGGATGCACCTTAGAGGTTGATGAC
3052 CaSNP5135 TAGAGACAAGACATTATGAGGTGACAAATACATTTAAGAGATGAACAATGCTATATGAG [A/G] AGAAAATAACATTCAAGAAGGGTTACACTTTGAGATAAGGAATAATTTGAGTTTAAATA
3053 CaSNP5136 TATGCTCTCTTAATAAAAAGAGTTTCATATTTCTTAAATCTTTCTTTGTGGCATGTCATC [T/C] TTGTAAGACTCCTAATAATATTCAAGTTGGGTGGATTCTTCTCTCTTTGGCAGGATCAA
3054 CaSNP5137 AAACCCTAAATCATTTAGTTCACGAAAATGAATAATCAAACGAGAATAATGAAAATGG [A/C] GAGAAATGAGACTGAAATAAACTGAGTGGTGTGCAACTCCTACGAGGTTATGATGGTGA
3055 CaSNP5138 TTGAATAAATATAATTAATTTTCAGTCAACATTACACTCTAAAATCAAAGTATATAACTAT [T/G] GTTCACATTACTCATCAGAACCTATTCAAATTTGAGGTAGCATAATTAGAGCATACTCAG
3056 CaSNP5139 GCGTCCATCTACTCTCTTGACAAAGATGAGTCAAGCAAAAAGGTTGATCAGAAATCTTA [T/C] AGAGGAATGATGGGTCACCTTTTACTTAACTGTTTCCATACCTTACATTTTATTAAGT

3057 CaSNP5140 GTGCAGAAAAATGGAGAAAAAATATTGGATGTTTTAGAGTACAAGGAAAAAGAATAATTC [C/G] ATACAGTTGTTTTCTTCAAAGTTTGGAACAGGAAACCACATATAACACTGTCACTCA
3058 CaSNP5141 AAAAAATAAAAAAGAGTAGAAGAATTCATCTTAGAGTTCAAAGACAGAAACAACCTGTTA [A/G] AAATATTTTTATAAGTCTTTTTCTTAGGTTGAGAGTTATTATTATCAGCTTAGATAAAAG
3059 CaSNP5142 ATAGAAAATATAAAATCAAAGATTAGAACCTGTGACATGTTGCCGTTGTCAAACCATCG [A/G] CGTTGTGGTCGCTGTGGCCGCCATCCCCGTTGGCGGGTGGCCGGCTTGCACCAAGGT
3060 CaSNP5143 AAAGGAGGACCACAAGACTAAGGTGGAGCAGATGATGATTATGCTAAAAAATACTGATGC [A/G] TAGATATTTGATTAAAAATCAAGTGGATGATTACCATGCGACGACAATGGCATATCTGGTC
3061 CaSNP5144 TGTAAAAATGACAATAATAACCCCTTTATATTTTCATCAGATCCAAATCTTTATTCGTATATA [T/C] AACTCTTTTTACTTTTTGTGTATGTTGAATTTGAATGATCTCAAAAAATATTTAAGTTA
3062 CaSNP5145 CACTCATTATTACCTTTTAAACAAATATGGAACAACACTACTGTATGATTGACTAATTGAAT [A/G] ACTACCGAATATGGAACGACCACCAAAATATGGAATCACTACCGAATATGGAATGGCTACT
3063 CaSNP5146 GAAATAAATGAATTGGGTTTGAAGAACCAACAAAAATCCCTAGATTTATTTTCATTTGATA [A/C] TATTTATGCATACCTGTCATTAGAAAGATCATGATAGAATAACTTGTCCAATGTTAAAAAT
3064 CaSNP5147 CCGACATTCTTTGCTTTCATTATCTAGTCTGTGCCTATTGTAACATTAATAGATAAAAATG [T/G] TATTACATAAACTGGTGTGTGCCCATTTGTTTAAATCAGCAATATCCACAACCTCATAAT
3065 CaSNP5148 TCAACTTTGATACATGAGAAGGCAATTCCTCACTCCAGTTACTCTTTGATCTGGCGTCACA [T/C] GAGACATTTTACAACACTAGAGCTAGTCTTAGACACCACAAGGCAACACAACCTTTATGT
3066 CaSNP5149 TTTTACTATTTGGTGATAATTTCTATTTTTGATTATTAGTAGTTGTGTCTCAACTGTTTA [A/T] GTAAGTTTCGCACTGGACTTCAATTTTTGTCTCAGTTTTATTGAAAAGACCTTTAGCCT
3067 CaSNP5150 ATACACATGATAACATTTATTCAATCATGTATTTGATGTTGGTGTAAATCTTATAGGCCA [A/G] TATTTTGCATTTGAACCTTAGAAGTTGATCATGCTATTTGTTTATAAGTTTAGATATTTT
3068 CaSNP5151 GCTTCAGGATTCACAAGAGACTTTTTGATACCACATCTCCACCCTCATTCATAGTCGATGT [A/G] GGACTTAACCACTCACACTGAACTCAACACAAGTGGCATGATGCAATGCTGTTTCACTC
3069 CaSNP5152 TTATAATGAGCTTCTGACATGTGTACCATCATTCACTATAGGGATTCAAGTCTACTACA [A/T] CTGTGGTCGAAACAAGAGGGAAATTTGTGAGGCATGGGAAGGTTTTGTTCTTTTAAATGAG
3070 CaSNP5153 GATACTCGAACGCGGTGGCGCGGAAGCGGACTGTTCGAGACGGTAAATCACCTGAAATCA [C/G] CAGAGGACTGAATCGTAATCTTCTAAAAAATGTCTGGTGAAGAGGAAGAAAACGCCGCA
3071 CaSNP5154 GACGATAACAGCAATATAACTTTAGTTTTGACATGATTTTCACTAGAGTGTAAAGGGA [A/G] TTCCAGTTGTAAATAGAAATAGAAGCTCAGATGAAAAGATTGTTGTGTGTAGATATCTTT
3072 CaSNP5155 ATTATCCATAAGTTTAAAAATAAGATTAGCAGCCAAAAGCCGGTGAACGAGTCAATA [A/C] AATGGTGAGTTGATGTCTTAAACATCGAAGATGTACAAAACAGGGCCAGACAGATTAGGG
3073 CaTSNP6001 ATGTTTCGACCGATGTTAAAGCAACAACCTTCGTAATGCTAGACTCTAAATAAGTTTTATAA [C/T] TGGACTGCTGACCAGGGTCCAGGAGGAAGTTATGTACACTTCCAATAAAGACGGGTAATG
3074 CaTSNP6002 CTGATCAAGTTGGGATAAAATTCGGTGTTCCTATGCAAATAAGTGTTAGTACTGTGTGTG [G/A] AACGAGTGGTCTGTGTGTGATGTGGTTGCCTCTTTTTTAAATGTTTGTAGTTTGGAGATC
3075 CaTSNP6003 TACAATAGACAGGACGTCTACTCTTACGGATGCCTTGAAGGTGAAGGAGATTGAAGGTGA [G/C] CCGCTACTTGATGCAAAATGCATTAAGGCTTTGATCAGACTTCTACGATTGGCACAGCCC
3076 CaTSNP6004 CACTACATATGAGCGAGTAGATCAGAGTTACATTGTATCAACTCGTCATTATAGAGCACC [A/T] GAAGTTATCCTTGGTCTTGGCTGGAGTCATCCGTGTGATATATGGAGTGTGGGATGTATA
3077 CaTSNP6005 CACTACATATGAGCGAGTAGATCAGAGTTACATTGTATCAACTCGTCATTATAGAGCACC [A/T] GAAGTTATCCTTGGTCTTGGCTGGAGTCATCCGTGTGATATATGGAGTGTGGGATGTATA
3078 CaTSNP6006 CAGAGGAGGATGATGATGATTTCTGATAAGATTGTCGTTTTTACCCATAAGTTGCACT [C/G] AGGATCTGTTAATTTCCAACATTTGCTTATATTTCCATTTTGAAGAACTTCCATTAGCAT
3079 CaTSNP6007 GGTGGGGCTTGGATACGTTATGCCAAGTTTGAATGAAGAATGGTGAGGTTCTTAAGGC [A/G] AGGAATGTTTATGAAAGAGCGGTGGAGAAGCTTGACAGACGCAAGAAGCTGAACAGCTT
3080 CaTSNP6008 AACTTATGGTTCACTATTAATAAATCTTACGTTTATCAAGACATTTGCTTCCGGAATTCT [T/G] GTTCCCAAGGAATACATATGGCCTGTAGATGCTAGTCTTTATCTACAACAACATACCACT
3081 CaTSNP6009 TTTGGCTTCAAATTTGAAGCGGCAGAGATCTGTGCTGGACAAACGGATAATGAAGATCTC [C/T] GAGTTAGGAATATCTGTGTGAATCATTTGGACAAATTTTGGTACTTCCCTTAATGCGCACC
3082 CaTSNP6010 TTCTGATCTTATAGAAACAACCTCAGAACATTGCAAGGATAGTTTCAAGGATGCTGGTAG [T/C] GGCTCGTTGTCTCTTCCAGAAGCATCTGGTACTAAAGACAACCAATTTTAGAACCAAGC
3083 CaTSNP6011 CAGTGGAGGAGGAGCAATAGAGAGAGAGAGAGGAGGCAGTTTCATTTCTATTGAATTC [A/T] TTTCTTTGAGCCCTATCTACTTCTCAACAAATCTCAAGATGCAAAATCTTCGTGAAAACC
3084 CaTSNP6012 TTGTTATGATGGTTTGAAGAGGCAGAGTTAAATGACCCTATGATTCGTGGACCTGATGG [T/C] CGATTTAAGGCTGTGAACTGGCGGAGGCCCTTGTCTAGTTGCAGAGGTTGCACATCAA
3085 CaTSNP6013 ATGCACCAGTCTTTTCCCCGATGTCAAAAGTCAGAGATGAACAGAATGGTGTGTTAGAA [T/C] TGCATGATGTTGAGGACAACAAAGGTCAAAGGACTCGTTTATAAATATGGCAGCTGGAG
3086 CaTSNP6014 ATACGTTGTCAACTCTTCATCGGTACGATGCTGGTTCCGAATAATTTTTATATTCGCGTG [C/A] CGGCAGAGCAAGGAATAAAGAGCTAGTGTCCACCTTGACCATTGTCATTTGCTCTTAAT

3087 CaTSNP6015 GTGTTTGAAGTTTTGTTTTTAAGAGCATGTTAATTAAGTCCATTTTCAGTTTTGTTG [C/T] GAACTTTTTTTCCTTCATTACAATTTGTTTTAGTTGTTCAATTGATGCTGCCAACGAGAG
3088 CaTSNP6016 TGGTATTGTCCTGGCGGGAATGAGGGCGAGGTAGGTGATAGCGGAAGGGAAGAAATGAAG [G/A] ACAAGGTGCGCTGCAACGAGGATCAAAGCGAGACCCCTTGAGAGTCGCGTGAATCCAGAC
3089 CaTSNP6017 ATTGAAACAATGAGTTGGAAGTTGTTGAAGGAATGAAGCTTGACCGAGGCTACATTTCTCC [A/G] TATTTATAACTAACCAGAAAGAACGAAATGCGAACTTGAGGATCCCTCATTATAATC
3090 CaTSNP6018 AAAGGAAGCACTGAGTAAGGTGCTTGACCATTTTTATCCAATGGCTGGTCTTCGTCG [C/T] GACGAAGATGGCCGTGTTGAAATTGACTGTAATGGTCAAGGAGTCTCTTTATCGAGGCC
3091 CaTSNP6019 TGAAGGAAGGAGAGGATATGAACGACCTAATGATGGAGCTGTTGTTTCAGGTGAACTTA [C/T] TGGGAAGCTGCAAGACGGAACAGTCTTCCTTAAGAAGGGTCATGATGATGATCAGCCATT
3092 CaTSNP6020 ATGTTACCATTTCTGCCACAGAATATCAACTTTAGTCTTTATCTTCCCAATTATATACAA [T/C] TCCTCAATAAAGAAATTAAGGTTTCTTCCCGACTCTTACACTCTCTTATCATACTATGC
3093 CaTSNP6021 GAACACACACATTTTAAATTTCAATCCCTAACCCCTAATTCCTAATTTTGATGCAAGCACA [T/A] CGAGATCCGTGAGAGAGAGCTTAGTTGAGCCCTGAGATTGCGTTTTGTTAGAGATAGAGAG
3094 CaTSNP6022 GAAGTATCCACATAGACAACATCAATATTTTAGAGATTGGTCTTCATGACCTCCGAAGCC [G/A] TCTAAGTATCATACCGCAGGATCCAACCTTATTTGAAGGGACCATTTCAGGAAATCTTGA
3095 CaTSNP6023 GAGCTCAAGAACCTTCAGAGATAGCAGCAGCAAGAGTGCAAAAACAAAAGTTGAAA [C/T] GGTGATGACGCTTCCGTTGCTGCCACTGCTGCAATTGGCACAGGCAGAGACACAAAACGA
3096 CaTSNP6024 AAAGTTACATATCATGATATAGAAGCCATTGATCTGCTTATTTCAAAAATTTGAAATGG [T/C] TGCTTGAGAATGACATCAGTGATGATCTGAATCTTACCTTTAGCATTGATGACAGATGAGG
3097 CaTSNP6025 ATTGCATTATTGGAGGATATAAAATACCACGAGACACCATAGTACTAATTAATGCTTGGG [C/G] CATTCAAAGGGATCTGAGTCGTGGAGTGAGGCCACAACCTTCAAGCCGAGAGGTTTAA
3098 CaTSNP6026 TGCAAGTTGATATTATTTTTCAGAACCAGCACATTGTACTTTCAACTACAGGTCCAATTG [G/A] TCCAGCTGCTGGTTTGGGAACCTATGTAGAGGCCTTGTGCGAAAACATGACACTGAATT
3099 CaTSNP6027 TTCAAAACCTATTGAGGAAGAACTGTGCGGTTTCGTTTAAACAGCAGTCATATCTCCAGTTGG [G/A] ACAAGAACGCCCATCTGAATCATTTGCTTGAAGGACCTTATCAGGACTCTTCTCATAAATT
3100 CaTSNP6028 ACTCCATTTACATCGCTCACTCTTCTTTTCGGTCAACTCTTGTTCAAGCAATGCACCTTC [T/A] TCTTTGACAGCGCAATTCGAGTGCGGAGAGTAACATTGTATTTGTGACTCGAAAACGGAA
3101 CaTSNP6029 TGTCCATGTCGCTGTCGTGATTGCACTGATAGTCTCACAGCTAGTTCTGATGGGACTCCT [G/A] ACCACCAAAAAGGCTGCTTCATCAACTCCATTTCTCATTTGCTCCCAATCCTGACGATA
3102 CaTSNP6030 ATTTGTCACACTCTTACCTGGTGATATAACTTTCTCCCTGTCAACAACTCTGTTCCTCA [A/G] CTCTTCTCTAACAACTTGTAATGGATAAGACCTACACTCCTTAATCTTGTTTGGAAT
3103 CaTSNP6031 ATTTGTCACACTCTTACCTGGTGATATAACTTTCTCCCTGTCAACAACTCTGTTCCTCA [G/A] CTCTTCTCTAACAACTTGTAATGGATAAGACCTACACTCCTTAATCTTGTTTGGAAT
3104 CaTSNP6032 AGATGATTATAAGCAATGGACCTCATAAACTAAACAGCTATCTTAAAGTGAATATAAAGC [T/C] TTCCACCATCTAGCATGCTAAATATGAAAACATATACAGTTACCTCATAAAAATAATAAC
3105 CaTSNP6033 TACTTTTGGAGACAAATCAAGATTGGGCAGAGGGGTATGACTGCTAAAGTCAATGCTGC [T/C] GTTTGTGCTGCTCATGCTGGCATCCCTGTTATTATAACTAGTGGCTTTGCCACAGACAAC
3106 CaTSNP6034 GGACCTGGTCTTGGGATCATAATGTGCAGAATTGACATCAAGATTGAGAAGATATTTTGC [T/G] GTATCCTCTCGAATACGTAAGTTCCCTCACAGTTCCCTGTACTCCCACCGCTGTTGTTTCGC
3107 CaTSNP6035 GGGGTAAAATTCCTTTTTTTGTTTCTCCTCCACGGCTGGATGACTTGTCTGAGTCTCAGG [A/G] GCCTAATGTTAACGGCATAGAGGTTGATGAGGCAGTTGACCATAATCAGGCATCTGCTGC
3108 CaTSNP6036 GGCTTAGAGGAGTTGAAGAAGCTGTACTACAGTTTCCAGGATGAACGAAATGTTTTAAGAC [A/G] TTCTGATCTGTCTGCTTTCTCAAGGTACAATGCGGCCCTTAAATGGTAAGAAGTCTCCAC
3109 CaTSNP6037 AATAGCTGGCCCTCAACTTGGAGAAGCAGCTCACCCTTGTGTCAGAACTCCCTTTCAGGT [C/T] AACAAATCATCTATGGATTATCGGACCAACTTCCAGGCCATCATAAATGCACAGGGTC
3110 CaTSNP6038 TGGAGATGCAGGAATGAAAGATGTAATCAAGTTTCTGACTACAAAAGAAGATACATCTCG [T/C] GAAAACAAGTTGCGCTTGTAAATGATTCTGGCAGCCATATACCCTGAGAAATTTGAGGGT
3111 CaTSNP6040 AGAAGTAATCAGCCCTAATGTTTCATGCCAAAACATGCATCAAATCCTAAGGAAGTTC [T/A] CGCCAACCATCAGACTCACTCTGCATCATCACCTCCACCAAGTTTGGCAGTGCCATTAC
3112 CaTSNP6041 TCCTCGTCTCGAATCCTCTAATTTGATGCCGTTGCTGCTCATGACAAAAGCAAGCTTAG [G/A] AGAGTTACTGAAACGATCATGCCTCAAATAGCACAAAGTTAGATGAAAGAGATTCTATGG
3113 CaTSNP6042 ACCATTATAACTGCCACAGCAGATGGCCCAACATATTGAGACCCTTACAAAGAGC [T/C] AAGTTCGAGGAATTAATGTTTCAAGTCTTCTTGCAGACTCAAACACCAGTGAAAAATTCA
3114 CaTSNP6043 TGCCATGGAAGGTGAAAAACCACCATCATTACCAACGCCGAGGGTCAGAGAACCCTCC [C/A] TCCGTTGTTGCATACACCAAGAACGGGCAGAGGCTGGTTGGTCAAATTGCCAAGCGCCAG
3115 CaTSNP6044 GTCTTCTCAACCTCATCTTCCACTTCTCTATATCCTCTTCATCCACACTTATTGATGG [C/A] AAGCATCCCTGCAGACAATCACCAGCTTTATCTCCACAATGTGTTAGCCTTCCAACTCTT
3116 CaTSNP6045 AAGAGATCTCTCAATGTATGCTTGTGGATCACACATATAAAGAAGTCTTCTCACAA [T/C] TGAATTCATCTTCACTTTCTCATGCAAAAATCTACTTCTCTTAAAGAATATTATCGCAGC

3117 CaTSNP6046 TTATTACGTTACCTTGTCATTACCTCGACAACCACCATCTTTCTTGCCTGGAAGAACC [C/A] GACAGAATAACACAAGGGCTTAATTCTGATCAGTCTTCCACCTGTTCAATTCATGGTCT
3118 CaTSNP6047 CATCTGGAGATCACGACTACCTGATGTACTGAACATTATGGGGATGCGCACGGACATC [G/A] TAGATGACAGGCCTCTCAAACCATGGAATTACAAAGTGTGTCCCTTCGGGGTAAACCTTG
3119 CaTSNP6048 TTGTTATGATGGTTTGAAGAGGCAGAGGTTAAATGACCCATGATTCGTGGACCTGATGG [T/C] CGATTTAAGGCTGTGAACGGCGGAGGCCCTTGCTCTAGTTGCAGAGGTTGCACATCAA
3120 CaTSNP6049 GAGAATGCGTGTGATGTTCTGTGCATTGGAGGTTGAGAATATGGCGGAGATGAAGAGTAG [A/C] GCCGCGTGAAGGGCGCTAGAGTTGGTGGTCGGAGCAGGTGCTGCATTGTGGAAGAGTGG
3121 CaTSNP6050 TCACTGGGCTGAATTTGGATGCAATAAATAAGGCAGTGGTGTGCTTGTATGAATCACAGA [G/A] GGATGAGTTTGGGGAAGATGGAAGAAGTGCATATTGCTGAATTTGGAGCTGTTTACAAG
3122 CaTSNP6051 TGATGCTGTTACTTACACTGAGCACGCGAGGAGGAAGACTGTCACTGCTATGGATGTTGT [C/T] TACGCTCTCAAGAGACAAGGAAGACCCTCTATGGATTCCGGAGGTTAAACAGAAACACT
3123 CaTSNP6052 GAAGAGGTTTTCTGCACATGTGTGAAGGTTTGATTGCAGAAAATGTTGTGGATGCAGA [G/A] GCTGCAGTTTGGAAGGAGTATTGCATTTGATGGGACAAAGTACTGAACAATTTGGTGGAA
3124 CaTSNP6053 TACAGGGTTTTGGCCACCGCCACTGTGTATAGACCTGAAGAATCTAGAAACCAACATACT [A/G] GGGATGGCATTAGGGTAAAGCTGGCAAACCTCGAGCAACTAAAATAGCCCAATTTACACCT
3125 CaTSNP6054 AGGGAGAGCGAAATCTTCAAAGTGTATTCCATCAATAGCATTAATCATGATTGCAGGCTC [C/T] AGTTAGACTATATTTAATCCTTTAAATATTTAAAACCATGGTACGTATATTAACCTAAGGT
3126 CaTSNP6055 TGCTGTTGCACAGGCACGTGGTCTCTCCCTGCTGCCAGTGGCGCGGTGGTAATGCTAC [C/T] ACAACTACTCTGCACCGGCTGGAGGTCAACCTGGTCAAGCTTCTGCAGGACTGGTTAT
3127 CaTSNP6056 GCAAAACATTTTCCATGGCTCCAACCTCTTCAAGTGTAAAGTGACATCCACTTTATCTG [C/A] CTTCTGGCCTTTAAGCAAATCGACCCTTTTAGCACCTGCCTTGTCTGGTGGCGGAGCC
3128 CaTSNP6057 GGCGAAGAACCATTTCTAGCTCAATGCAGGAAAGACTAATTTATGAAGGATGGATTCTATA [T/C] GATACTGGCTATCGCGACGAGGCTGTTACAAGGGCTGACAGATCCATTGCAATTCAGAAA
3129 CaTSNP6058 TCTTCTCGTCAAGGTCATAATCATTTCTTGTGTCTGCTAGTATAATAAAGGGATCCTTG [A/T] TCCCTAGAGTGCCTTCTCTTAGGATGAGCATACTCTTCTACTACACTACGAGAACGAGAC
3130 CaTSNP6059 CGTCACACATTAACGCTTCTAATTTGTTACC GCCACAAAAGAAAACATGTTTATCTTTTC [A/G] ACACCGTCTTCTTCTCCTTCAACCGCATTTTTCTCACCACCTAGGGCTTCAAATTCATAA
3131 CaTSNP6060 GACATTCAAAAAGACTACAATCTTGATAAATGCATGGGCAATGGGAAGAGATCCTGAA [T/C] ATTGGAGTGTGCTGAGAGGTTTATTCAGAGAGATTTGATGGTAGTTTTATTGATTTCA
3132 CaTSNP6061 ATGGAATCTCGGGTGTGAGTAAGGAACGGTTTGAAGCGAGTTCGATAGCTAACCACACA [C/A] ACGCTAGGGCTCCCACCACCACCACCGCTTCTTTGCCTTTCCCATTTCTTTCTCTCAC
3133 CaTSNP6062 ATCTGCTATTGTTGAAACTCAACCTGACACTATTTTGAAGTTTGGCATTCTCTAGAACG [C/T] CCTGTGAGTCTTCTGTGTTTGAAGAACTTGAAGAGAGGTACGGTATTGGACTACTTGT
3134 CaTSNP6063 ACACCCATGGCACAAGATCTTCCACAAAAGATGCCTCCAGAAGCTATTGATCTTGTCTT [T/C] CGGCTTTTGCAGTACTCCCCAAGTCTGCGTTGCACTGCGCTTGAAGCATGTGCACATCCC
3135 CaTSNP6064 AGCCAGTTCAGTCTTTCCACACCGGTCGGCCCCATAACATGAAGCTAGCGATTGGACG [A/G] TGAGGATCTGAAAGACCTGCTCTTGAACGCTGGATAGCCTCGGCTACTGCAGTAACAGCA
3136 CaTSNP6065 GAATGAAAGATGGTTTCAGTTGCAGCTTAGGAAATGAACTGTTTAACTGAGAGCACC [A/T] AGGGAGAGGAATTTGGTGTGTTAATGAAGATGGTGTCAAAGGGACACACGACATTTTGG
3137 CaTSNP6066 TGAGAGATCTCCAAGAGAGCATTGATTCACAGAAGGAAGTTGAAAAGCGCTAGAGCAAA [C/G] TCCGTCTGTCACAGATATCGAGGATGAAGATATTGAAAAGGAACCTCGAGGAGTTAGAGCT
3138 CaTSNP6067 ATGGGAGAGGAAGGGTCCACAAGTGGATTCCATCTTCCACTAGCATAGTTCATAAGCTGT [C/T] GTGAATATTCCTTAACTTGTCTCTTCTGGTAAAGTACCTTAGCAGCAGGACCTATTGCTT
3139 CaTSNP6068 GAAGTATATCGTGGCATACTTTGTGTCTTGGAGCCATATACATATAGTTTTTACAGCTT [G/C] AGGCTGGGAATTTTGTGTTTTGCGCCTATGTATATGTATAAAGAAAAGTTGCAAAAGGAG
3140 CaTSNP6069 AAGTATTTTATCCATGTATTGTGGCAAATGTGTAGGCCATTAATATTTGTCTCTCTGAAA [C/A] GCATACACATGCAGGCCACCATCCATTTGTAGAGTGAGCGTGGTCTATATCTTACCAAT
3141 CaTSNP6070 ATCCATAACTTGTATCCACACTAGTACCTCTACTAGGGTAGCGATCCACAAACCGACC [A/G] GACGGACACTCATATGCCAAGTACCACGACCTCCACAATTTGTGACAAATCATCAATGGC
3142 CaTSNP6071 AAGGTTATCTAGGATCATGTTACCCGATACTCGTCATTGATCTTCTCTTTGAACTCCTT [G/A] GCAGTTTTCAGTCAAGTTTAAATTTTACACAAAATATTACACATTTGTGGTTCACGCATT
3143 CaTSNP6072 CTTATCCCCAGTGTATATATCTCTCTCAGTTGCAGATGCAAAAACAGTTTTTACCAGATC [A/G] ACTGCTTCTGTTTTCAGACAGTGGAGTAACAGCATCCTGGGCTGGTAAGAGGAGTGGGCTA
3144 CaTSNP6073 TGGACTCTGAACCCCAATACCAAAAAGAAAACAAAACAAAAGAAAAGCAAACCTGAA [C/T] CTGAGCCTGAACCGGTTACAGCAAAAGTCAAAGTTGTCGGTGAGAATCCAAACAAAATAC
3145 CaTSNP6074 ACAAGGTTTGCACACCTTGTAGTTGCCTCTAGAAGTCTTCTGTATGCTGAACCTTAGGGA [A/G] TGGCAAAGTAGGATGAGAGAAGCAAGCACCAGGCTTAAACGACAGAGCTACTAACTACGT
3146 CaTSNP6075 GAACACTCAAATCTGAAATAACCTAGTACTCTACTAATACCCACTAAAACCAAGACTG [A/G] TGATCTTGTGTTTTCTTACTACTAAATATTTTTCTTTATTTGTTTTCTCTTATTTTCG

3147 CaTSNP6076 AGGATCAGCATGCCTATGTCCATGTCCAGGTTGGTGTACCACCTCACGTTGATCCTCAGG [T/C] TCATAGTCACGCCCTCTTCCACCGTGAGGCTCCTTCTCATGTTTAGATTCAACATGATCA
3148 CaTSNP6077 ATTATCTGGCTCATCGTTTACAACACTTGAGAGCTAAACTCAAAAATTTCTCGACGTGCTC [G/A] GATGGATAAGACCCCATACGTGCATCAATAATTGAAAATATCACGCCGGATTGGTATGAA
3149 CaTSNP6078 ACAAGTCCTCTTGGTGGTGGTCGTCTGGTCGCGTGAAGCGAAGGAACCCCTCAAGGCTGC [T/C] GCTAAGAAGGCTGCTGGTGGTGATGGAGATGAGGAGGATGAAGATTAGATTATGAATTC
3150 CaTSNP6079 AAGGCCATTTTCTCTAAAGATTCGAGTTACATCAGACAAAAGGCCAACTCTGTCTGTCACC [A/C] GAGAGTTCAGCTTAATTCCTCGGATGTTCTGCTCCTCCGAAGTGCAGCCTCCAAGCAGTGA
3151 CaTSNP6080 GAATATTGACCGTTGGATAGGGCCAACAATTAATAATGTCACTTCCAAGTTTGTAGTGGTGG [T/C] ACAGAGTTTAAATCCCAACCTTCTCAAGTACACTTGTGAGATTGAATCCAGGGTGAAGCA
3152 CaTSNP6081 CGGTGAATTCTCCGACGACGAGATTGAAAGCCCCAAGAAAATGGGATATGTCAAGATTCC [G/A] GCGGCTGAGGTGGTGTCTGTCTCCCGCACCTCCGGCCAAGGATTCCGGTATGAGAAAT
3153 CaTSNP6082 GCATAGAGTGAATCAGAGACAGAGAGAAGAAATCCTTCACCATTTCAGCGTCTCCGTTT [T/C] ACAATGGCCACTATACCTGTTAATCCCAAAACCTTTTGAACAATTTGACTGGGAAGCCT
3154 CaTSNP6083 CGTCACAGACCCAATCCTCTGAACAATCCTCGCAAGGCTTACTACTGAATAAACAACACA [C/G] GAAACCTTATGCCAAATTTATTATGCGGAAACTAGCCCTTTTAAATGTTTGTAGTGGCTGC
3155 CaTSNP6084 TTTACGCCTATGGAATCTATGTTGATGATGAAGCCAAGTTAACCTTTCATGGGACTTGT [G/C] CAGCACTACATCAAGTTGAAAGAGGAGGAGAAAAACCGCAAGTTAAATGATCTTCTCGAT
3156 CaTSNP6085 TAGCAGGGGATGAAGCCTGTGGTGGTAAGGGCACTTGTATCAACATCCTCTTCTCTCC [T/C] TGTCCGAGCTCCCACTCAAATTCCTGAACAATTCGCCAATAGCCGTGCAAGTTATCAAC
3157 CaTSNP6086 AAAATATGAATTATCAGCACAGAACCAGAAAGATCAAGCTTCATTGGGTATAATTGAGAA [T/G] GAAGCAGATCCTGAAGAACAAGATTATGAACTAAATCCAGCTGTTAAATTAGAAGGAAAC
3158 CaTSNP6087 TTTCTGGTTGTAGGATGCATGTGATGTTTCCCCTGTATACGAATGACTATTATGGGCTTG [T/C] TTGGGTCGATGGTTCGGGCAGTTTCTCTTAAACGCCCTTGAGCCTCCGTTTTCATTCTAA
3159 CaTSNP6088 TGCGGATCCAAAACCGGTGGGTCCATGGGATACATAAGGAGCACCCTAGGGAGCAGGACC [G/A] CCGCGGCCAAAATTAGGCGCGGCATAGGTCCAAGTACTGCGACGCGCCGCGAAAA
3160 CaTSNP6089 GGGATGTACTCACGTAATGGGGGTAAGTGGATTAAATCCATGATCCTTACAGCATCA [C/T] TATCCCCTGTCATGTGCTTTGGAATTTGATTTATCTTAAACACTGTTGTATATTTCTATG
3161 CaTSNP6090 CCAAACATGGCTAAAGGTACTACTTTTACTACCCTTCTTTTCTTTCTCTTAATAATAACT [T/C] TCCTTTCAATTGCAATTTCAACACCAACAAAATTTTCATCAAATCATCATGTAGCACAACAC
3162 CaTSNP6091 GTGTGCCGACAACAACACTGTTTATACAACGGATGCGCCATTATCTCCGCTTCCACCTCCC [C/T] GTCTGCCAGTTCACCATCCCTCCTCCTCCGTCTCCGACCACCGTCTCCTCCTCCCTCCG
3163 CaTSNP6092 GAGCTCATTAGATGTTTGGAGTCTATTTCGGGAACATGCCCTTCGTGCGATCGGAATATCCA [G/A] TTATAATCACCTTAGAAGACCATCTTACTCCAGATCTTCCAGGCTAAAGTCGCTGAGATGG
3164 CaTSNP6093 GCAAAAGGAAAGGGAGAAACAACACTATTGGAATGCTTGACATTGCTTGTAAATGTCTTGA [T/C] CAAGATCCAAGGCAAGACCTTCTATTGAAATGGTGTGTTTCATGGCTTGATAGTGTAA
3165 CaTSNP6094 AGGATTTATCCTTGATCATCATGGGGCTGAGATTAATGGGAGCTGAAGTCATTGCAAA [T/G] GTTGCAAGTTAACAGCCGAACGGGATGGGGATATAGGAAAGCTGCATTAATGCATTA
3166 CaTSNP6095 TCCTAAGCCAAAGTAATGAGACAAAATGGCAGCAGGATAGCAGGAAAGAGAATGGAAAG [T/C] TTGGTACCAAGAACAACCTCTTGAGATTAAACAAAAATTCCTAAGCAAAACACATCGA
3167 CaTSNP6096 AAAAAAGATTCCAACTAGATTTTGAATTACCTCCATGACTGATTTTGGTGAATAATTTGT [G/A] TATGTATTAGAGTTGTTGATAATGTAAAGAAAAGATGTGTATATTTATGTATTAGCTGAG
3168 CaTSNP6097 AAATGATTTTGTTCATAAACAGATCAAATGGGGAAGCAAATTGCCAAACAACCATTATT [C/T] GTCTACTTCTAGAGTTCATAGATATTCTTGTCTTTATTGGTTTCAATTTCAAACCCATA
3169 CaTSNP6098 GAATTTTCCGTGAGGCATGTGACCACCACCATGTGCATATCCACCTTGTGCATAGCCACC [T/C] GGTGCGTATCCACCTTGTGGATAGTGACCTTGAGAGCCGTGGGAGATATGGTGAACCA
3170 CaTSNP6099 TAATTTCTTCAGTCGAGCTATCTTTTCGAAGAAATATTTTGTCTCGGATCGTTCACAA [C/T] GACCTCACCCGTGATGCATACATGAGAGATTATGTGTCTCATCCAAGCTTGATTCTATT
3171 CaTSNP6100 CGTCGTTGATATCTTAATTCAGTGTTCCCCATGGAAGTCCCGCCACTTATTAGCAGTAC [G/A] TTACAAAAATTAATTGTGCATATGTTTGGAGTGGAGGAGATGACCAGACCCCTCTAAAACA
3172 CaTSNP6101 GTCTATGTCTGAAGTATTGAATAATGAAATAGGGGATTTAACAATTTCTTGCTAGTGA [T/C] GAGAAATCAAAATTTAAGTATCTGAATTGACTGATCAAGTAATGTTTCATGGTAGTGATT
3173 CaTSNP6102 ATCTTGACATGTTCAACTCTTCTATCCCTATCCCTTTTTCATGGTCTCGGACCAATCAG [G/A] TCTCGAGACCGATACGATGTGAGTCCAACTACTGTTTCTATTCCCTAAATCCATCTTTC
3174 CaTSNP6103 GTGTGACTGATATCTGAACATTCACCTCTGAGGTTGTTGCAGAAGATGCATGGTAGTTGTT [G/T] GTTTGGAATTGGATGCTTCCATTGATGTAGAAGAAGGTTTGCATGTATCTTTACGAGTA
3175 CaTSNP6104 TATATTTCTAGAAAGTGCATGAAATGCACCTATTGAAACCTCGTCGGTAAAAATATCTTC [G/T] GGTGCAACAAGATATTGGCCTGCAGCTGAAAGTATATAATATCAACACCATCACTAATG
3176 CaTSNP6105 AAATAAATGTTACCTAAGAAGTACAAAATCCACAACCTATATACATAGAATGAGAAATCG [C/A] TAAGAGAGCAAGATTTTCCAGGCTTTACATAACACAAGGTTTAAACAGAAAGTTGCATC

3177 CaTSNP6106 CCAAATAAACTAAAAATAACAAGCTTTCAATCTATCATTATTATCCATTCAAATTAGCCA [C/T] AAGATCATAACCATATCTCACAGTAAAACATAATTAATTA AAAACACCTCAATAATAAATC
3178 CaTSNP6107 TGCTCTCATCGGAGTTGGTGGTTCTATTCTTGGAGTGAAGTTTTTAGATCCCCTTGCTGG [A/G] CTTCTTGTCTCGGTCATGATTTTTAAAGCTGGAGCTGAAACTGGTTACCAGAGTATCTTG
3179 CaTSNP6108 CGCAGTACTAATTGCAACGGTGGCATTGCGCCGTATATTCCTACTGTCCCGGTCAATTTGT [G/A] GACGATCCAAAACACATTCTGCAGGAAAGTGCCTGGGGGAAGCCAACATTGCTCCGAAG
3180 CaTSNP6109 CTCTCCAGACGGTGATTTTCATAGCGTTTAATCACGACTTCGAAGCTAACAAACAACGGTGG [C/A] GTTAAGATCATAAAATCCACGGTCTAAACGTTGGAGTTTATTAAGGAAGAACATGT
3181 CaTSNP6110 TCCTCCACCGCCACTTGAACGGTTTTGAGCTTCGTTAACAGTAATGTTACGTCCGTCCAT [G/A] TCCTGTCCGTTCACTCTCAATAGCATCCCTCATTGACTTCTCATTAGCAAATGTCAGG
3182 CaTSNP6111 ACTTATGGCACAGGTGCTTTTCATTCTGCTAAACACTGGTGAAGAAATGTTCAATCTAAG [C/T] ATGGCCTTCTATCACTGTAGCCTTAAAGCTTGGCCCGAAAGCTCCAACCAATTATGCAC
3183 CaTSNP6112 TAGGGTTCAACTTCCTGGACTTAGCCAAGAGCTTCTTCAGAAATTCAGGGAAAAGAACAT [A/T] GATTTTGCAGCTCATAATGCTCAAGAAGATTCGGGTTCTCTTTTGTAACTGATTGGG
3184 CaTSNP6113 CTGCTGGCCACTAAATGGGAAGCCTTGCAATGGATTGGTTTCCTGCATAATACCAGTCAT [C/T] GGATTACTGGGATGAGGGGGCATAGCGGCACCCTTGGGAAACCTCTTAATAAATGAGAC
3185 CaTSNP6115 AAACGATGACGACGAGAAGGAGAATACTGAACCACAACAGGTTGTTGAACAAGTTGAAAT [G/T] GAGTATGTTCCGAAAAGGCAGAGCTATATGAAGGCTTGGATGAAGAATTTAAAAAATA
3186 CaTSNP6116 TTTTGGGAAGTCAAGTAAAGTTACTATAATTACATTCCAAGATTGAGAATCCTCTGGTAG [A/G] GAATATAGCTAGAGTTTATGTCTGTTAACTCGGTGCGAGGAAGATGGCTGGTTTAAAG
3187 CaTSNP6117 AGCAAAATCTCTTCTTTATGAATTCATCCAACAGATTAATAAATAAGAAATGATAAT [C/T] AAGAGCAAAACACCATTTAAAAAATACCAAAATCATTGTCTCAACTCTCAAGTAAACATAG
3188 CaTSNP6118 TGTTTCATTCTTTTTCTCTTGTGCCCTTTTTCTTCCTCATGTGTGCTCCCAATAATTCTT [T/A] ATCTCATTGTCTGTTCGTCCCGGTAGCTTCTAGCAATCTTGACCATCTATTTCCCAT
3189 CaTSNP6119 ATCAACCAAACACTTAGTTATGCTAGGGAGTTGGAGAGGATTGTCTGAAAAGAAATGCAC [A/G] GGATGGTTTATGTGTTTTCCCAAATGCTGATATTGTCGTTTGAATTTGTTACTTCTGA
3190 CaTSNP6120 CAGAAACGACTTTGATTCATGTTCCAATCTCCTTTCTCAGTTAAAGGTGTTACTAACAGG [G/A] TTTAGAAGCCTTCCACCCTTGTTTTGCAGATACTCCTAATGCAGTTCAGGAGTTAACAATA
3191 CaTSNP6121 CTCTTTTGGGCTACGGAACGGCCGTTGAGAACTGTTTGGCTGCAGCTTCCTTAGTGGAA [T/G] TCATGGCTTGGGTTAACCGTTGCCGATGCAGCTTCTGCAAGCCATTGGATCGTTCCCTT
3192 CaTSNP6122 AAATAGTTTTACACATAAGTACTCCAACCAATTTACTCATAAATCATAAACACTAACAAT [G/T] AAACAAGCTTTTTGGAAAACACAAGACCCCTTATCTAGCTAAAAAACAACAATATCAT
3193 CaTSNP6123 AGGGGCAGCATAACCTTGAGTGCCCATAACTCTAGTTGAAACATGTGTGCATCTCCTTC [A/C] GGACCATCTTTTGCCAAGCCAAAATCAGAGAGCTTTGCATTATAATCAGAGTCTAATAAG
3194 CaTSNP6124 AGCCTCTGCTGCTTTGACGGTCAAGAGGGACTTTGGTTCCCTGCAGATGTGCCGTAAGCC [G/A] GATTGCTGTACCTATTGTAAGCACAAAACAATGCCATCCCTAAAAATGAAGAGCAAAGT
3195 CaTSNP6125 TGTCTCACCACAAGGTGCGCCTAAAGCTTCCCGAAGCCATCTCCCCGAAATTCAAATGG [C/T] GATGAATAAGTGATTTTTCAGAAGTATCCAGAGACACCTTGACTAGTGCACCTGTTGCT
3196 CaTSNP6126 AAGATGTGTATTTACCAGGAAAAGACAATTCGTCCGGGAAGGTAGCCACTGATATTATT [T/C] ACTTGTATCTGTCCACCATGTCCACTGACCATATCAATCATTTTTATGTAAGATCCTTCT
3197 CaTSNP6127 TTACCGGCAACGCTACCGGAATCAGATCCTCCTCTTCTCCGTTTCTCGCTTCGTCGTCGA [C/T] TTCTTCATCTTCTCCGAGTCAAACGGTAAGTTTTTTCAGTTGAATCGTTGTTCCGGTACGA
3198 CaTSNP6128 TAATGCAATCCTGCTTGAATCTTCAAAGGAAGGATACGCAGCCTTGCAATTCGTAGGAAAC [T/A] CCATCAAGTTTACTAAATTTACTGAAAACATGGGTGGGATGTAAAAATGCTCCACCACAA
3199 CaTSNP6130 TATAGTGGGTAATTAATAACCCCTTCCATATAGATTGTTTTGCAATCGGTACGATTTTGACC [G/A] TCCGATTAATAATTAACGGTTCAGATTTTTAAAGTCATTTTTATCATTTTTATTAATATA
3200 CaTSNP6131 GCGCTTACGTCTTCTGCCCAAATCCACTGACTCTACAGTGGCAGCACCTGAGTCTGAGTC [T/C] GAACTGTCTTCGCTGCAGACCGACTCTCAACCCACTCAAATGTCCAATCTCCTACGTGG
3201 CaTSNP6132 GAGAACAGAAACATATGCATCTGAAAGGCCAGTGTATTTCCACCATAGCAATTCCTAAC [A/G] GTCTCATGACATTTGTCAATAATCTTTGTCCCTAACGGTCCACTCCTTCAAATTAGGCTCT
3202 CaTSNP6133 TTTTTGTAGAAAGAAGTTGAATTTTCGCGTCCAAAGGTATCAAGTTGCCTTTCACATA [C/T] AATCTTCTCGAGCTTCTGTCTGATGAAGGGCTCCACATGGAAGCCATGTCAGCTCGC
3203 CaTSNP6134 GCCGCTTGGGCTTCTTTTTCCGTTTTACTCTTCTGCCTCGTTTCTTCCCTTAGTAGCG [T/C] CAACTTTAACAGATGAATCGCCTCCATTTGCCAGTCAACCTTACCAGTTTCTTTAT
3204 CaTSNP6135 AAGGAATACAGCTGGGATATTGAAATCATCACAGGCCCAAGAAAGCAGTGAACAAGA [A/T] CTATGAGTGTGTTTGGAGCTTATAAGTCGGTGGCTGAAGAATTTGAGCAAAGGAGTC
3205 CaTSNP6136 CATTTGTTTCTGCCATACTTCTCCATTGATTTTCAATTTTGTAGTTTCATATTCAGACCATCT [G/A] TTATCGTACTGTTGAAGACGTTGATGAAGAATGTCATTTTCTCATCTTCTCTCAGG
3206 CaTSNP6137 CACGGCCAGATTTTAGGTTTATATTCGATGCTATGCATGCCGTTGCTGGTGTATGCAA [C/A] GCCATCTTTGTTGATAAATCTGGTGTGGTGGATTCAATTTCAAATGGAATACCTTT

3207 CaTSNP6138 TCTTTTTACTTTATTAATTGCTGAAGTAGTATTCTTATTACTACTATAAACATAGTGCTG [T/A] TTAGTTCGCTTCTGCTCTGATCGCAGAGATGTAAAAACAAACAATCCAAGTAACTAAACA
3208 CaTSNP6139 TTTGACTATGATTTTTAATGATGATGATGATGATATTGAATATGATAATGGGAGAAAGAGT [A/G] ATGAATATGATCATGAATTTTATAATCATGGAGTTGAAGGGTGTGAAGAAGTAGATGTAC
3209 CaTSNP6140 AGAGAATGCTGCCTCAGATGCAGCATCCATTATACTTCTGGGCAACAAAATTTTCACAGGT [A/T] ATTGATGCCATAGACCTAGCACAGACAACAATGGCAAAGTTTACCAAAAATTTGTCTTGG
3210 CaTSNP6141 AGATGTCATGTTAGACAGCTCTTTCCAACCTAAGTTACTAGAGGTGACGTACTGTCTGA [C/T] TGTACCGGAGCTTGTAAAGTATGACATGGATATCGTTGTTGGAGAAGGAGGTGTTGCGAAA
3211 CaTSNP6142 AATCTCAATTTACACTACATACAACTATTTTCATCATCATATTTATACAACACTCAAT [T/C] ATTCCCCTTCCATTTCTTCCGAATTTTTTCTCTCTACACTTCCAACAAGCTAGTATACT
3212 CaTSNP6143 CCTCCCTCTCCCCTCATCAGCACCACCTCCAACAACCTCCTCCCGCCGTCTCCCTCCACC [T/C] TGCTGGACCCCAAGAAAGTGTGCCCTAATCGACGCTTACCGTGACAAATGGTATTCT
3213 CaTSNP6144 TGCATCTGTCTCATTACACATAAATGCTTCTGGAGACATGTAACCAAAGTACCCACCTG [C/T] GAATCCCGTTGAATATTAGTTGTATCACTCATTATTGCTTTGGCGATACCAAAATCAATC
3214 CaTSNP6145 AAAACCTATGGGACCAACTATGGTCCCATCTCACTCGGTTAACCAAAACCCATCAGTCC [T/A] GCACAACAAATGAGGGAACCTGTACACAATATGGTCAAAAACAAAACAATGTATCTTCA
3215 CaTSNP6146 GGATCCTCCTACATCATGCAGCGCAGGTCCAGTTGCTGAGGACATGTTTCACTGGCAAGC [G/A] ACAATCATGGGACCTGCTGATAGCCCTTATGCAGGTGGTGTGTTCTTAGTTTCGATTTCAT
3216 CaTSNP6147 AAGGGATACACAAGCATCACTTGTGTACTTGGTTCGAAAGTGTCTCGGTAGATCTGATGTGA [A/T] CGACAGGCAAGGTGTCTTGTATGTGCACTCCATAGCCCACTGAGTGTCTTCTCCCCAA
3217 CaTSNP6148 GTTAATGGCGAAGATCCTACTCTGTTAGGAGCATCTGTATTTGTTGATGATTATTGGTGT [G/T] ATAATGTCTTCCAATCTTATTTAATGCAATTTATATTTTTAGTACCGATCAGTTTCTGT
3218 CaTSNP6149 ACCTCCGCTGATGTGTATATGGATCAGAGAACAAGATTGAGGCACCAGAGTCTCCTACA [G/A] GACTATGAAGACTTGCACAAGGAAACAGAGCCATGAGAATGAAATTGCAAGGCTGTGAAG
3219 CaTSNP6150 ATTGAACTCTGAATCAAGAAGAAGAAATCCATTTCCCTCAGCATTTCCTTCTTTATCACC [A/G] AGACACGAGATCATAATTTACCAGAAGCAAGGCAATGAGATGTGTGAGGATAAGCTAAC
3220 CaTSNP6151 CTAAACTCAATCAAAATTTGAAAACCTCTGTATGGCGACAAAAGAAGGCCAAAGCAATTTGG [C/T] ATAGACCTCGGCACAACCTACAGTTGCGTTCGGCGTATGGCAAACGACCGCGTCGAAATA
3221 CaTSNP6152 TCACAGGTCTCTGAGACATCCTAATATTGTGAGGTTTAAAGGAGCTCATTTAACACCTAC [A/G] CATCTGGCAATTGTAATGGAATATGCATCTGGAGGAGAAATGTTTGAACGAATCAGCAAA
3222 CaTSNP6153 CAAATCACAACCGCCACCGCCACCGCCGCGGACCCACGACCCCACTCCACCGCC [A/G] CCGCCGCCACCACTTCTAGAATTGTGAGAAAGCTTACCCTCCAACCATCTTGGCCATCT
3223 CaTSNP6154 TGTCCAGTAAAAAGAGTTGCTCGTCAGGACTGAAGCCAATATTGTTTGTCCATAGTG [A/G] TTTGGCAGTTCATCAAACACCTTTAGTGTCTCTTTGTTTGGCAAGATCCCAACCTTC
3224 CaTSNP6156 AGATCCAGGGCTGCCGTCACTTACCTTTGCAACTATTGCTGCTCGCTCAGAGTTCTTTTC [A/G] GCAGTGACAGGCTGTCTAATAACTCCATTCGTTTCAATGACGGAACATCTCCTTTACAA
3225 CaTSNP6157 TACTTCGGAACAGTTGAAGATACAGGCTGATAAGGCAAGGCATGATTTGAGTGAGGTGGC [G/C] AAGGAAATCACTGAAGAAGGAAAAGAGTATTTGTCTGCTGCTACTGAGAATTCACCCGAC
3226 CaTSNP6158 AGGCAGAAAGAAGAAATGAAACAATAGATTTGAGGAATCTTCTGCTTCTGTGCTCACAATC [T/C] GTGTATGCCAACGACAACCTAAATGCCAATGAACTACTTAAGCAGATTAGGCAACACTCT
3227 CaTSNP6159 CATGTTTGTGTTGTTCTGTTTGTGCTAATACAAGTTTCCGTTGCTGAAATCATTTTCGA [G/A] GAACGCTTCGAAGATGGGTGGCAAAGTTCGCTGGGTAAAATCAGACTGGAAAAGGAGCGAA
3228 CaTSNP6161 GAAAAACATGAACCTGAGCCAGTTATACCAAAGTATGAAAGAAGCATATGATGTAATGCA [A/G] ACACCATTGGTTCCCAAAATGCCACCTACCTTGGGGCTGAGAGAGCTGAAAGAGTCTACC
3229 CaTSNP6162 ACCGAATTGGCCACATCCGCGCACTTTTCATGGTGACATTTTCACTTCCATTTGGTCCATA [G/A] CTGAACTCTTTGACAGCTCCTCCTGAATTGAACATCTTGATTAACCAATAGGAGCAAAAT
3230 CaTSNP6163 AATACAGAGACCTGAAGCACCTCGAGCTCCCTTTGAACAGCCAAAAATCTGCATCGCTT [A/G] GGATTGCTTGTTCGGTTCTGTGAAGTTATCCCTGTTTCTGAAGCCAGATGTGGTGCCA
3231 CaTSNP6164 CAGATAGGTTCAAGGCTGTTTCTGGTATGGGGCATCTTGTGGAGTTTTCCTGAGACTCGA [A/T] CTCATTTACTTGTAGCTCCCTACTAATCAGCTGGTCTATCACTGAGATAATTCGCTATT
3232 CaTSNP6165 TCTGGTTCAAAATGTCTTAGATCAAGACCGTTCTGATAAATCTCTGGGCAATCCATGACA [G/T] CTCAACAATTTCTCTCAAAATCTGTCTCTCCCGGTGCCTTTCCAGGGTCCATGAGTATAC
3233 CaTSNP6166 AACAGAAGCTAATACGGGAATACCCAAATCTCTTCAATTATACCAAAGATATTTTCCAA [T/A] TTCCTGGCATTAGTAGTACAGTGAACATGGAACATATAAAGCTGCATTACTATGGAAGTC
3234 CaTSNP6167 AAAGGATCAAAATGCTGCATATGTTGAGTACTTGATTGAGTTTACATCCGAACAATTTGC [C/T] GATGATATTGCTGAGATGATCCGCAACCGTTACCCGTCAAAGGAAATTTCTTCTTTGAT
3235 CaTSNP6168 CCCAGACCAGCAAAGGTTGATTTTTGCTGGAAAGCAGCTTGAAGATGGCCGAACCTTGGC [C/T] GATTACAACATTCAGAAGGAATCCACCCTTACCTTGTCTTCTGTTTGGGGGAGGTATG
3236 CaTSNP6170 AAAGATCATTTTTTGGGTTAATAGCCCAAGCGACCATTGTTTGTGATGTGATTCCTG [C/T] GTGCTGAATGCTATGTCTAGTTTTCTGATGTTTGGTCGTAGGTCCAGTGAAGGTACGA

3267 CaTSNP6202 CAGCAGAAGGGGTGTAGCTGAGGTGGGAGCTGTTGTTGAGGCAACATTCGGCTCAGGG [A/C] CACTGAAGTGGAGCTGCTTCCAAGTGTCTTCCACTCCCTGAAATGAAGCTTGGCTCTT
3268 CaTSNP6203 ACCGGATTGGGCATCACTAAATCTCGGCGTTCTTGTGTCATTGAATGTTCTGGTGTTC [T/C] CGTAACCTTGGTGTGCACATATCAAAGGTACGCTCTTACATTGGACGTTAAGGTGTGG
3269 CaTSNP6204 CACGTTAAAAATACCGTGGTAGCATGTGGGATACAAAAGATTTTTCAAGAGAACAGCACT [A/G] GAGACATCAGATTACCTTAAAGATGATTGCCTTAGTGTTAATTGTAGCGTTGGTGTGTG
3270 CaTSNP6205 CCAGGTCTGCTGCAAAAACCCAGCTGAATTGTCTTTTCTGATTGGGCCGTTTCCTTAGT [G/C] GACTGGCCCATTTTCTGACCCCTTTTCTCTTGCTCGACCAGTTGTGTCTTGGGCTTTTTCT
3271 CaTSNP6206 AGATTTACTTCACTTCAATATGTTGTTGTTATTCTGATGATTTTTGAGGATTCTCTGCG [T/C] CAATTTGCTTTACAAGTTAGTTCATTTTGACTTCCATTTTTTAGATAAACTTTTAGAGCA
3272 CaTSNP6207 GCTTGAAGAGTTCGAGCATCAAAAGAGCATTTTCAGAGGATTGAGTTTCCTACTATTTT [T/C] TCCGTTGGCCCAAATGCCGCTATTATTTCATTATTCTCCACAGGCAGACACATGTGCCGAG
3273 CaTSNP6208 CAAGGACCTAAAGAAGCTCCTTTGGAAGCTGCTTCTGCTTGTACTGGTGTATGCTAAA [G/T] GTGCTTACCTGGTTATGCCGGAGATCTCTTGGTGACCCCAACGGGTGCTAGCTATA
3274 CaTSNP6209 ATGGCCGAATCAGCTTGTTCAAATGCTTGTACCCTAAGATGTCTTGTAGGTGAGCATGA [A/G] CTAAGTATATGACAACAACTATCTAATGGTCAACATTAGTGATAGAGTTGGGCTTTAAT
3275 CaTSNP6210 ACAAAGTATTTTCCCATGCATACTCCACAGTTTATGCAGTACTGTTGAACATCTTGCTC [C/T] GTGTCACATGAGGAACATAAATCTTTTTAATTTTCATGACCGGTATATCATGAGGATCA
3276 CaTSNP6211 AGTTATTACTCGCGTCAACTTTTCTATCATCGTCCGATTGTGAACAGTTTTGTCTTCGG [T/C] GGTGGAAGGGTCTTCTGAGAAGGCAGTATAACGAGTTAACCTTGACATGACGTAGGG
3277 CaTSNP6212 AGAATCTAAGTTGAAATCAAATTTGGGTCGTTGTTTTGAAGAGATGGAACATCATCTTG [T/C] TGTGTCTCCAATTTAACTTTCTTAAAGCAGTGATTATTATCAGAATCAGATCTCATTAGT
3278 CaTSNP6213 CTCTCTTCTTTTAGTAGCAACAGCTCTATGCTATATTGTGGTGTGTTGGAGTATTACC [C/A] TTTTCTCAAATGCACAACCTTGATCCATCTTTTACAGCAAAACATGTCCAAATGTTAGT
3279 CaTSNP6214 CCTTCAGTCTTCATCGGTGGCTGTGAAACGATCAGCGCGCGGAAACTGAGATTACTTGC [T/C] AAGAATCGCGCCGATAATAGAGTTTTGATCGGAGAATCCGGCGCGGTTCTTTTCTCGTT
3280 CaTSNP6215 TGAAC TCAACTCAACAAAAGGAAACAGTTACATCTGTGAAGTTGCTGTGGTTGCCACACC [A/G] CTGGATGAGATAAATATTCAATTTATCCCCCAATTTCAATTCCTGAGAGAAAATTACAG
3281 CaTSNP6216 ATCTACCAGGCTTCAGCTTACGTGGAGGTAAGGGACATCCAAGTAATCTGCCATCTCGT [C/T] AGGCTTCAGTGCATCCATTGACAGTCAACTGCTCCGGCTGAAGCTGATTAGCCGAGCA
3282 CaTSNP6217 TTTGCTTGGCTACGATATTGGCGTTATGAGTGGAGCAGCCATTTACATACAAAGAGATCT [G/C] AAAGTATCGGACGTACAAATCGAGATTCTGTTAGGAATCATTAACATCTACTCTCTCAT
3283 CaTSNP6218 TCCTTTGCATTGTGTGCTGAAGCAGGACATTTGCAAGTTGCTTTGTTATTGATTCTCA [C/T] GGTGCTTCTCATAAGAGTCTCAAGACATTTCAACATGCTTCCCTCTTCAATTTGGGTTCT
3284 CaTSNP6219 TTTGGCACTAAAGTTATTTACCATTCTACAGAAGAATCACCTGATCTTTGAGCATCCCT [C/T] GCTTGATTTATATAGTAACACAACGTTTATGATATTAGCAAAATTTTTTGCAGCTTCC
3285 CaTSNP6220 ACACAATTGCAACAACCTCAGCAATGAAGTTGCTCAATTTTGGTTGGTGTACCATTCC [G/T] GATCATATTCTTCAGCTCCCTAATGAAGTAATGAGCAGCCCAATGGGGTCTCTTTTATTG
3286 CaTSNP6221 GGTCCATCGCCGGACGGTGATGGTATCATACGGTGCCGGCAAAGGCGCCGAACAGTTG [T/C] CGGCGCGGAGGATAGTAATTAGGGTAGTTAGGATACGGAGTAGTGGCGGCATTGTAAAC
3287 CaTSNP6222 TCGTCCATTTTTTGTGGACCAGCTGTCTTTTGGTAGCCCAACGACGGAACACCAGACT [C/T] AATCCCTCACCCGAAACATCACCAGTGCTTCTGTACACAGGAACATTTGTCACAGATTCC
3288 CaTSNP6223 GGCCAAACCCGGGAAAAAGTCCGACACATTGGGTTTCCCAAAAGCCCTACCATCTCCG [A/C] ACCACCTCCCTGAACTCCGCCCCTAATCTTTCCCTCTCTTCCCTTCCACCCCGCACCC
3289 CaTSNP6224 AAGAGAGGGGATTATTATGGTCAATGGAGTGCTATTGGAAGGACAGCTGTCAACTACA [T/C] TGGCTGGATGCACTGCTGCTCTCAACTCTTTTTAGTAAACGGTTATTGGCTGGACATT
3290 CaTSNP6225 GCACTCCTTGTTTTCTACCATAGCATTGCTGGTGGCTACTCCTGGCTATCTGAAACATT [T/C] GGAGTGGAAATTTGGCAAGGTTCCAATATCCTTCCATTTTCCGGAACGGATGAGAGGAG
3291 CaTSNP6226 TTCTTTATTATAGTAGAACGCTCATGAGGCTTCCCATGTTCCAGTACATGCTGAACGAC [G/A] TAGTTTCCACTACTGATCCTGAGCTAACATGCTAACAGTTCCATAAATCTCATCCATAACC
3292 CaTSNP6227 GTGAAGGGGAATGATGAAGTTCGTCGTCGTCGTCCTTCATCGTCGTCATCATCAT [G/C] GTGGTCTAATTCATGGTCTGGTTCGGAATCGGAGTGAAGTGAAGGTGGGAACCGGAATC
3293 CaTSNP6228 GAGATCGAGGAACCACGAAATGCCGGAGAAGGAACTATGATGGTAGACCTTGTAGCAGA [T/G] GTTTTCTCAGAAATCTTAAAGTAACGACCACGAGGGTTTTCTTTCAGATCGAAGTAAAC
3294 CaTSNP6229 GAGATCGAGGAACCACGAAATGCCGGAGAAGGAACTATGATGGTAGACCTTGTAGCAGA [T/G] GTTTTCTCAGAAATCTTAAAGTAACGACCACGAGGGTTTTCTTTCAGATCGAAGTAAAC
3295 CaTSNP6230 GGCAGAGAAAACCCATGACAGTTTCATAATCCACAACATATTTTTTTAATAAAATTTT [G/A] CCACCGCAAAAAGTAAAACCCCTCCTACTCCAAAATCGAACGGGTGAGGATTTTTGAT
3296 CaTSNP6231 TAACATTTGGGATGAGATTAGTAATGCCGGACAGGAAAACACCGATAACGGTGAACCCG [A/G] ATTTATATCATCAGTTGGAATGACCATTTCTTCTCATCTCAAAGTTGAAGACGACGCTTAC

3297 CaTSNP6232 TCCAAAGGTAGTATCATCCAAGCTATCCTTTATCTCTGTAGAAGTATTGACATCATTACA [C/T] GCAGATACACTAGCATCTTTCTAGTAGTGCAGCGGACTAGGCATTTTATGGTAGTAGGT
3298 CaTSNP6233 AAGCCATTGGTGAGAGGGTAGAGTTTTGAGATTTTGTTC AATTGGTTATAGATTTGAAGG [A/T] AATGGTGGTGAATAGTAACGCGGTTGAGTTGACTCGGTCTACGAACCCGTTTCTTGAACC
3299 CaTSNP6234 TTGTCAAACGGTTCGGGATCTGATGTGAACGACGTTACGCTGAGTGACTGTTGCCGA [G/T] GTTGGTGATGAATTCGCAAGTGTTCAAAACGGTGTGTCGGATAAAGAATCAAACGAGATT
3300 CaTSNP6235 CATCCTTTGGTTGTGATGCTGATGCACCTTCAGCTGTAGAACCGGTTGCTTTAGATGATG [C/T] TTCTTTCCATCCTTACCATCTTTGGCATCTTTAGCAGGAGCAGGTGGTGGGAATCAT
3301 CaTSNP6236 ATCTTGCAAAATCGCATACAAACCCTAAATAACAAGTTCAACTAAAACAACAATTCAATC [C/G] ATAATAATCTACGAATTAAGAAAAAGTTTTCCACAGCATAAAACATGAACCGAAAGC
3302 CaTSNP6237 TGTGGAGCCATAAGTCAAAGATGGAGCTTCCAACAATTCTATCTACCAAAGATGCCTTAG [G/C] TTTTCGGTCAATTTAGCTAATGTACCATGTGACTTTAACTTTCTGTAACCTCTGTATAGGC
3303 CaTSNP6238 CGCAAAGAAAGCAGCTTATTGGTACCACACACGTTGCATATATTTCAAATGTCATTTTGAC [C/A] GGAGACACAACCTTAAGGACACGAACAAGGAAAAAGCAACAGCACCAGAAAATCCCATA
3304 CaTSNP6239 AAGACCAGAACTCTCTCGAGGAAATCTTTTAGGTGGGGACGGCAGCGTACATAGACT [A/G] TGCTCCTTTTGATTAATAATCCAGGTGAAAGTAAAGTCTACATCCTCACAAGGCTCTAGG
3305 CaTSNP6240 TCGAGTACGGGTCGTAGCAGTATCCAAAACCAAACCTATTTCCATGATTCGCCAACTCTA [T/C] GACGCAGGTACCCGTTGCTTCGGCGAAAATTACGTCCAAGAAATCATCGATAAAGCTCCT
3306 CaTSNP6241 TTGGGTTTTTTTGTGTTGATTTTCCACTCTTTGGGTTTTCTTCTTAGACTTGGCAGAGG [G/A] CTTTGGCGTGATAGTGCTGTCGTCCTTTGGTTTGTCTTGGAACTACCAATGTTCTT
3307 CaTSNP6242 GAGCGTATCTCTGTACGCTCTGGCATTAGAGAGAGTGTGGTGTCTTACGCGCGGACA [T/A] AGTGTGAGATCGAGATTTTCAACGGAAGAGTAACGCGCAGGATTGATGGTATGTATTCCG
3308 CaTSNP6243 CAATTTCCGCCACATCGATCATACTCTCTCTGAGAATTCAAACCCATCATGGAATAT [G/A] TGGCATTGCAAGCACACAATTGAAATGCAGCAAAGTCTATCAATGACTTAAACTTGAAG
3309 CaTSNP6244 GGCTGGTTCGTATGGCATTTTAGGTCAATCTCATCGATGTACACTCTGTCAAATTCCTTCA [A/G] CGATATGGTGGGCTGAAAACGGTATTTTATTAAGCTTCTGACAGCCAGTGTTCACATTC
3310 CaTSNP6245 CACCATGCTAGAGTCATGCCACATGGTTTTATTGCTCTAGCATAAATTCAGCTGGTGTGGC [T/C] ACCGTGGTTTCTAGTTGTCCCAACATAAAAAAGTTCTTGTGAGAAGTGAAGGTTAGC
3311 CaTSNP6246 GTGAGGAAGCTAAGTCTCTCTTACGTTCTGCTGGATCAGCTCTAACAGTGGTATTAACA [T/G] AGTAACCATCTTCAAGTAGTCTTTTGATAATCCATGAACCAAGAAAACCTGTCCCTCCAG
3312 CaTSNP6247 TAACCAACCATGGTTTATACTCTGAAACCTTCTTGAAACAATCATCAATCAGGGTGACA [T/C] TTTGATGATAAATTTGATCATCAAATAAAGTACTTGGTCTTAAGAGTTTTGAAGTTTTGG
3313 CaTSNP6248 ATCAACACAGGAACCAAGCAAGCAGGTGGAGGCACTGGATCAGTTAAACAACCTGGGGCT [G/C] GAGATGTTATCAAGTATGTTTGGTGGACTTGGAGCTGGTAGCCTAGCTAATCCAAACAGA
3314 CaTSNP6249 AGATCTTGAAAAGCAGTATCACGAAGCAAAATCACTCATAAAAGATACACTTAAGTCAGG [C/A] AAGATTACCGTAGTACTACATCAGTATTTGAGGACTTCAAGTCTGTCTGATTAGAAGAA
3315 CaTSNP6251 ACAACAGGCACAATGGGAGCACCAAAACCATGGAGGAGTTAATCCATCTTCTTACTACA [G/T] CAGCAACTTCCAAGTTGAACATGGGTGGCAATTACCCTGAGGAAGCACCAGAAATGGGG
3316 CaTSNP6252 CAACCTGAATCTGTGAGAGCGTGAAGTTTCCATTGTAATTTGGAATAGTTGAAA [C/T] CTTGATGATGCATCACTGGTCAAGGCATGCCAGCAAAGCATTGCCCGACTAGATTGTTT
3317 CaTSNP6253 TAAACCAAAAAGAGGAACAAGAATTGTGAGTGTGAGAGATGCCTTGGAGCAGAATGTCAG [G/C] GTCAGTATCTTCCCTACGGTGGATGTGGTTATTGACATGGGCAATCCATTCCTAAACCT
3318 CaTSNP6254 GTTGTAAACATCTCAATGTGTTAGGTGGAAGAAAAAGATTCCAAGTTTGAGATAGTTTTA [T/A] TATATTTTTCATATTGGAGTGTCTTCTGTGTAATTTTGTTCATTTGTGTACAATGTTAA
3319 CaTSNP6256 CAGGGTTCATGATAAGGCAAAAGGGTACTCGGAATATATTGCAATTGAGGAGGAAAAC [C/T] GTCAACTCTTTTATCCATTGATCCATTTGAGCCAGTGTGGTCTTTCTCTCTGACAAAAGT
3320 CaTSNP6257 CTCTTCCCTAAATCACGAACTATTGATCTCATCAACCGGATTACGCTGATTTGCTTAA [C/T] CTTAGCACTAAACTGTTGACGTGGACCGCGCTGTGGTTCGTATGCGGGCTCCACTGGTT
3321 CaTSNP6258 AATCTCAGAAGCTGGGGGAAATGGCCCTTCTCATATGGAAGCTTCAGCTTTTAGCACACC [A/G] CCTCGTAACATGGGGACAGAGGATTTGGGTATACTGTTGAAGGGCCATAGGTTCCGTTAGT
3322 CaTSNP6259 GCACATCTCTTTCACATCTTTGAAAGCCTTGGTCAATGATGTCTTTAGCTCATTTGTTAC [C/T] TTCTCTCATCCCATGAACCCCTGGATGTTCTGAACCCACTCAAAGTAGCTAACTGTA
3323 CaTSNP6260 ATTAAGTATTTGATCTATCATTTTATTACATCTTGTAAACCTCAGATTGTAAGCAGTC [G/A] TTACCTAGTAATAGAAGAAGATCTCGAAGTCAGCCACCAGCAATATTTGTCGAGAGCCA
3324 CaTSNP6261 GGAAGGGAAGAAAGAGGAACTGAGTTGGGACGAGTTTTGTCTGACTCGTCTGGAATCGG [A/T] GAGTTATGGGAGTTTGAAGTACAGATCCTGAGTTATGACTCGTTCGAGTTAGGAACCGGA
3325 CaTSNP6262 GGGTTCTCCGGCTTGTGTCTGACGCTCAGACCTTCTATTTCCAACCCACTGTTGCCTTGT [T/C] TGGTTCAGAGAAGAAGACCATGATTAACAAATTTGAGGATCAGTCTGAATGCCTTCA
3326 CaTSNP6263 CGCCGATAAAGAATTTGTCAGGAATCACATCCTCCTCTCTCTACATCAACTTCTCCTCT [C/A] TTGAGGGTTCAACTTGGTGGTGCCTCCGAACGATTTCAAATTTCTGATATCCAGACCAA

3327 CaTSNP6264 CCATGGTAAATCAAATGAAGGATCTTTCTTTTGCATCTTAACAAATCACTAAGTCTTTC [T/C] AGCAAACCTCATTGGACATATTCAGTAATCTTCACAATCACAAAGCTCACCGAAGATGGA
3328 CaTSNP6265 CCTCAGCCTTGAATAATCTCCATAGATAAAATTTCTAGGACAAAGGGAAAAAGAAAAATGA [C/T] GATGGCTTCTAAACTTTCAAAGTTAGACAAAACCTAACATTGAAAGTTTGTGGCCTAATG
3329 CaTSNP6266 CGAAGCAATCTATCATGACAATAAATGTGCTCTGAATTATGGCTGAGTAATAAGTTTACA [C/A] TTAAACTGTTTCTTTTCTTTTCCAAGTAAAAATAGTGTCTCTGAAAGTTCAACACTCC
3330 CaTSNP6267 CGATTCTTTTTCTGGTGCAGGATGTGTATAATGATCCAACCTCCCTCTTTGTGCCCCATC [A/G] TTACTGTCAATTGCTTCTACAAGGGTAATCGAGATCATCTACAACCTTCTCTTTGGTTTCA
3331 CaTSNP6268 ATTCCGGAAGGAGCCCTTCTTTTATGGACATGATAACTATGATCAACTGGTCAAGATAGC [C/T] AGGATACTTGGGACAGATGAATTAATGCATATTTGAATAAGTATCGTATTGAGTTGGAC
3332 CaTSNP6269 ATTCCATTATAGTAAATCCACAAAAACAAGCCAATTCTGTGTCAGAGATTCCACTCACAT [A/C] TTGAACAAAGTTAGCCAATGGAGCGAGCTAACAAATTTATATCGCTATGCATTTTATGCG
3333 CaTSNP6270 AGGTGCTATTCTTGATTGGAGTGATTACTACTTTTTGCACATTTCTCCCTTCTCTCTTAA [G/A] GACTACAACAAATGGCCTTCTTCTCTCCATCTTGACAGAGAAGTGTGATGAGTATGGA
3334 CaTSNP6271 GCTCCTTAACCTGCACAATGTTGCCTCGAAGAATGGTGACGTGCAATTGACAGACTTTGT [G/T] GAAAGTGAGTTTTTGGGTGAACAGGTGGAAGCCATCAAAAAATCTCAGAGTTTGTGCGT
3335 CaTSNP6272 GAATTTATGTGGCAATATGCACTCAAAGTTCTTGGCTTTCTTGAGAATATCTGAAGAGGC [C/T] GTGGAGGTAAAACATGAACCTGATGATCTGCAAAAAGCATATTTACAGCTCAAGGTATTCTT
3336 CaTSNP6273 TGGTAGAAATGTTTGATGAGTTCCTTGTATTGAATCAAGACCAAGAGTGAGTGAAACACC [A/G] TTACTTGAAAACCTTGGTGTGTGTAATTGTTCTGAGTCAAACCTACCAATATACCAATT
3337 CaTSNP6274 ACTCACCCACACTATGAATCCCTGAATTGCTGCCGCCATTATTATTATTAGTAACACC [C/T] GAACCCGGCAGCGGTGAAGGCGACCCACCAGGCATAGCACACCCTCCCGAAAAGAA
3338 CaTSNP6275 AACTTTTGAAAATTATAGCTACATGGAGGAAGATGATCAAGAGAATGGAAGTCCAGCCGC [T/C] GTTCCAGTTCGGTTCCTGATATGGTGTGCCACCATCATTTGACAGCGACAACCCGGCC
3339 CaTSNP6276 GCGTGTGGTCCGATTGAGTGAGGTGATGCCGAGAATATCAGATGTTGATGTACAGACCTC [G/A] CGTCAATGTATTTCTGCATTCTTGTCTATGCACACAAATTATGAATTACTTCTGAGTCA
3340 CaTSNP6277 GGTAAGCCCTTACTACACATCATAAGGTTGCTTACCAGTGAACCTTGACCTCAATTGGGTT [A/T] ACATCTTCCCAATAGACCTGAAATTCTGACCAACCCCTTACAGCAGGATTAACCTTC
3341 CaTSNP6278 CCTCGTTGATGATAACTGTCCAAGTTAATGAAAGTTGGACCGAGCTGTAATACACACTC [T/C] CTTAGCCATGAAGCCGTTTTCCGCATTCTGCTTTTCTGCTTTTCTGTAAGCCACCT
3342 CaTSNP6279 CTATTCCTGCCAGCACGGGAAGTTTGAACAACCTATGAACCTCAGGATGCTCAATGC [C/T] AGTTCATTCTCATTTTTCAATGTATCGGTGGTTCATCACTACAGTCAGAGGACGAGAT
3343 CaTSNP6280 ATCCAGCGTCACATTACGGCGGCATCTCCGGGACAGCTTTTCCGATAGGTCTGGCTCCGG [T/C] AGCATTGCCGGTGGCGAGTGGTGAAAGATTGATCACCAAGCCAATTAGGCCAACGCCAAT
3344 CaTSNP6281 GGAACTGGAATTCAAATTTATGAAGCTGAGCCACTTCTTCTATTTTTTCATTATTTTAC [A/G] TTGCTAGGAGCCATTGGTGTCTAGGTGATCGTGGTAAATTTGTTGATGATGAGCCTAAT
3345 CaTSNP6282 ATCTGCTCGTCATTGGATTGTTAGGAACACGAGGAGTGTGAACCGTACCGGGTATCTAAC [C/T] GGTTACAACCTAGTCTCGGTGCAAAATGTTTACCTTTAGCTGGATCAGAGGCTAAGTTT
3346 CaTSNP6283 GAAAGCTGAGGCTGTGGATAGGATATGCAAGCCGATTATGACAAAACCAAGCCAGCCAA [G/A] CCAGCTGCTCCACAAGCACCACCAACCCAGCTTCTCCAGTGCTGAGCAACAGCAGCAA
3347 CaTSNP6284 TTCCATGGACTCCGAGGATGATATGCACGATGCTAACGACGTGGAGTCCCTTGAAGACGA [T/C] GACGATTTCTACAGTGGTACACGGAGGATGCTTCCATGGATTATTACAGCGATTACGAT
3348 CaTSNP6285 ATGAATGGATGAAGTTGATTATTGATTATTAGATTATAAAGTTAAAACCAAGTATTCA [G/A] ATCAGATGCAATGCCACTAACTGCAAAAAGAACTCTAAGTTTATAATATTTCTTTTATG
3349 CaTSNP6286 GAAGATTCCGCAGAATTGCGTAACTTATTCCGAGTTTATTGAAATGTGTGCTGAAAATTG [T/C] TCCGATCAAGAACAAGCAAGAAGATTGCGAAGATACTTGATGATTACAGCAACTGTAATT
3350 CaTSNP6287 TGAAATATCTATTTATTTAAGGAAAATGAAAAGAGAGTGAAGAAAAGGCGACAGAGATG [G/T] CCGCGCGGGATTGAACTGTTATTACATCGGAGGAGTAGGTGATGAGTGAAGAGGTGGAA
3351 CaTSNP6288 ACAATACGGACACCTGTTGCTACCAGCACTCGAAGATCCAGCAGTCACAGTGGATCAACT [T/C] CATTGGCATGATGACCTCTACACCAGACCAAGTGGTAGCTACGTTTATGTCCAGGAC
3352 CaTSNP6289 ATGCTGCTTTGGAGCCGCAATAAAAGAAAAGCTTTCAAATATCAAGTATAATCAAT [T/C] GAGTGAGCATGTATCTGCATTAGCCTTGGTAATTTTGTGTTGTGTCAGCAATATTTGAGT
3353 CaTSNP6290 AAGGCGGGCTTTACTCGTGGTTTAAAGAGGATCTACCAAGTGTTCAGAGGAGGAGTGAA [C/T] GAATGAATCTATTGCTAATATTCTGCATGCAGAGAAGCCTGGACCTAGTTTTGACCATAA
3354 CaTSNP6291 ACAAAGATTCCTTGAACCCCTGCTTGATTTCCTCCGTGTTACACATATAAAGCCATG [C/G] ACTGATGTTAAATGATAGATTACAAAGCATTTCCAAACCTCAGTCTGCTTTGGTCAAGGC
3355 CaTSNP6292 TCCATCTTTCCGGAGCAAGGAATTCACAGGATTGCTGATTTGAATCCAACAAACCTTGA [C/T] GACCTGTTAGCATCTACTGATCCTTCTTTACTATCTCAACTACACGGACTCTCTATGCAA
3356 CaTSNP6293 CGCTTAGCAGCCGAAGAATTTCTGTATCAACCTGAGACATGACGGTAAGCAGTGACTGC [G/A] AGGGAAAACCTAAGACCCGGAGATCCTTCTTCTATTTCTCGGTGGGGCGGTAATGGGAT

3357 CaTSNP6294 GCACATTTACAGGAAAACGGATCAAAGAGAATGAATTCGATGCGTGAATACAAGTAATC [T/A] ACAAATCACATAGAGGCTAGGGTTTCTATCTTTCAGTTATTTCGCTATTGCGCTTTTTAG
3358 CaTSNP6295 TGATTTCAAAGAGGTCACACTGAAACTCCTAAACATCTAAGAAGCCTATTGAAAGAAGTGT [A/T] TCTAACTCAGTGCCTCGATTTCATGAATTCACCGTTGCTAGTCGGCATAGGCAAATTGCT
3359 CaTSNP6296 AGAAGAGGAAGATACGTGCCAATATGTTTAGAAGATTATGATGCTGAGAATCCAAAAC [G/C] GACACAAAATGTGACCATCATTTTCACCTTGCTTGCATCTGGAATGGATGGAAAGAAGT
3360 CaTSNP6297 ATGCAATTGTTTCATCACGTAATCGGTTAATCTCTGAGACTGTTGAATCCAATGATTGCAT [G/A] TCTACAATATATCTTGTATGCAAATGACTGACAACTGCTTTTGTCTTCTCCAATGCTTCA
3361 CaTSNP6298 GTTGAAGGCATTGAACATAGATGGAATCAACATGGTCTTGGAGGGGATAATGTTGTTGAT [G/A] GTTGTAGGAGTTTGCATCATGGACCTGTTAGTTTGTGCTATTGGAGTGGTAAAGGGAAAC
3362 CaTSNP6299 AATGCATTGAAATAAATCTCAATTATACAGTATTCTACTGTTAAGTCAACACAGCAAAG [G/A] GGACACCAACGTCTCCACTTAAACTACCCTGAATGGTACAAAGGAGGAAAAATTCACCTC
3363 CaTSNP6300 GATGTTGTTTTGTTTGGATCGAGGGTCAATATCGACGAATACGACGTCGTGACGACGGA [G/T] GAAGAAGAAAGGGGAGAGGTAGCAGAAGTTTCTTGGATGAAGCGTTGGAAAGCCCACTCG
3364 CaTSNP6301 CATCACATCCCAAATACCATCACATCCTATGATGAGGAATTCGTCATCCTCTGTTAGAAC [C/T] ACTTGGTGGAACTCAGGCTCTGCTATCAAAGGTGAGGGAGTACCTCTAGGTAACCTTCATG
3365 CaTSNP6302 ACAATGTGATTAAGAATAAAAGGAAATCAAATGAAACAAATACATATTTCTTTTAAAGACT [C/G] AAGAACTTACTACCTTCTAATCACATCACATGCTAAGAACTTTAAAGGCAGTAGCCTCA
3366 CaTSNP6303 ATTGAGAAATCAAAGCAAATGTGGTCTGACATGCTTCAATGGAGGAAGGAATTTGGTGTCT [A/G] ACACCATTGTTGAGGATTTTGAATTCGAAGGAACAGAGGAAAGTGTGCAATATTATCCTC
3367 CaTSNP6304 TGAGTCGCTGAATCGGAAAGTCGAGGAGTCTGATAAATTAGCAGACATGAAAGTGGATGC [T/C] GCCAAGGCACAGGTAGAAGCCGTGAAGGCTAGCGAAAACAGAGTTTTGCAAAAAGTTGGAA
3368 CaTSNP6305 ACCAGAGGTTGACCAAGTTGGTTCGGACGAGCCCATGAGTCACCTGAAGTAGACCCCTGT [T/C] GGCTCTTTTATTCTAGAAGGTTTGAATACAGCTGGGCACTACTGCTGTTCTTATCAGACA
3369 CaTSNP6306 ATTGCCAACTGATGCTGCTCTTTTTGAAGATCCTTCCCTCAAGGTATATGCTGAGAAATA [T/C] GCTGAAGATCAGGAAGCATTCTTTAAAGATTATGCTGAAGCACATGCCAACTCAGCAAC
3370 CaTSNP6307 TGGACTCGCACTCAACTCAACTAACCATCAAAATCTAAACCTCGCCGGAACACGCGCC [G/T] ACTTCATTCTCGCCAGAACCACCGTCTGAAACAGTCAATAATTATGCTGTTTTAAAT
3371 CaTSNP6308 GATGCAGAAATACATGGTGAGGCTCGTGAAAATAACAAAGTATAAAAAGTGTGTTCAAAT [T/A] ATCTCTATCTACTCATTCATGCGTGTAGGTGTATCCAAACTTGGCCAAAGACAAATAAG
3372 CaTSNP6309 AACAATACGCTTGTCTGGATAATCCAGTAATGAGTATATGGAAGAAAGAGTGCACCTCATCCCC [A/T] TCTACCTTGTGAGAATCGTGTGATAGAGAATAGAGCAAAGGAAATTAGGAGTACTAAG
3373 CaTSNP6310 CGTAATACTTGATGAAGCTGACAGCATGACATCCGGAGCACAACAAGCTTTGAGAAGGAC [A/G] ATGGAGATATATTCTAATTTACTCGTTTTGCGCTTGCTTGAATACATCTTCTAAGATT
3374 CaTSNP6311 CAGTGAAGCATAGGTGCACAGAGGGTGA AAAACTCCTGCATTGCTTTTTCGCAACTTCTG [C/T] GAGGAACAAAACATAGATGCTTGCCTCAGATGTTTGCAGCAAGTGAAGCAAGAGTACTTC
3375 CaTSNP6312 GTTGGAAGTATAAGAACTGTGGCTTCTTTCTGTGCTGAAGATAAGGTTATGGAATATAT [G/A] GGAAGAAATGTGAAGGTCCCATGAAAACAGGGATAAGGCAAGGGGTGATAAGTGGAGCAG
3376 CaTSNP6313 TTCAAAGAAGCAGGAAAGGAGATACCTAATATATGATCTGATGGCAGTCAACTTCATTT [A/G] GTGATAGAGCGACCTTCTGTGAACGGTGAAGATGCTTGAAGGAAGTGAATGAACCC
3377 CaTSNP6314 CGAGAATTTTAAAGTTGATAGTCCATGTTAAGTACACCGAAACTGAGATTCATCTGT [T/C] TACAATATGAAACTACGGAACTTGTTCATGAAAACAGAAATGGCACTTATCAGTGGATT
3378 CaTSNP6315 ACGGATTGTTCCAGAGGTTGAACATGAGGCCATGTGCAACATGTTCCCAGCAAGAAAG [G/C] GCTTCTGAAATACCCACTCCTCAGTTTGTATTATGTTGATAACATATGAAAGGGACTATTCT
3379 CaTSNP6316 GGCTGGCGTTGCGATGGGAGGTTGAGATTGGGAGGAAACTCCTCCGGTGGTGTGTTGTTG [G/A] GATTGGGAAGTGAAGCGGAAAGTGTGGTGGAGAAGACATGGTGGCGCTGAATCTCCG
3380 CaTSNP6317 CTTACAATCTTACACGTTAATCGAACATTCACCTCAATTTCTTTTCAATTTAACTTCGCAA [T/C] TACTCTGCTTCTCCTCTGTTTTCTTTCATACTAATATTGTTCTCCTTCTTATTCACCTCTG
3381 CaTSNP6318 TAACAACCTCTTCTTCCCTCGATTTTCGTGCGATAACTGGAGCAAGTATCAGATGTACTTT [G/A] TCTTTTTACGGGTCTTGTGCTGTGACTTCTTCCCTCATCATAGTTCGCTAGTTCATCC
3382 CaTSNP6319 ATCCACGTAATTATAAGGAAATTCAGGTGCTTTTCCCATTCGTTCCATTTAGGCTCGCT [C/T] TGCACCTCGCTTGCAAAACCTCCGGCAGACACCAGTGTCTGAAACAGCTCGAGTCCGCTGTGC
3383 CaTSNP6320 CTGATGAGTGAGTTCTCCACTCTGTCCCTTAGTCTAGAAGACCTCGTGTCTGCCAATT [G/C] AGAGATTTCTCTGTGCATCTCTGGCTGCCATGGCAGCAGCAGCTGTCTCTTCTTTGAAT
3384 CaTSNP6321 ATCTTTAGCTCCAGAACCAACAAGTACAACAATCATTAGGAGGAGTCCCCAGCACC [T/A] GCTGATGATACTACTCCAGCAGATTCTGATGAGTCAACAGCACCAGCACCAGTCCCAAT
3385 CaTSNP6323 CGAGCCACTTTTCTTCAATCTGTAATCAAAGTATTCTTGAATATGTCGTTACATTAGG [A/T] GTACGAGGAAGTTTAAACAAGCTTGCTTAGATGAGTAATAAACTCAAAATCATCAACTAAT
3386 CaTSNP6324 TCCTTCTATGGTTGATATGGTGACTCGTTCGACACAATGGTGTGTTGGCGCTCCGCTAAG [A/G] CGTATTCTCAAACCTGCTAAATCATTTCTGAGAGGCACAGAAGATAATAACAGCACTGG

3387 CaTSNP6325 TATGGTCAAATCCTTGTAGAAATGCCACAGATTATACTGTGAGCAACGCCTCTCTTTGATA [C/A] GAAGCATAGTTCAGGGCGCAATATCTGAATTTTCCAAGAAAGAGTCCCTTGCCATCATTGA
3388 CaTSNP6326 CTCTAGATGGTTTTCTCTTTGGGAAATTTCTCTTTTAAAGCGTGCTTTCTTAGGCTTTGAAG [C/T] CTCGTCGACAACAGCGCAGCAATCAGTTGCCCTTTTCTGGATGGAATGACTGTTAAATG
3389 CaTSNP6327 AGGTTGAACACCTTTGGGTTTCAAATCCCCAGAAATGACCAGTGCAGCAAAACCCAGACTG [G/A] ACCTCGTCAGCAATACAAGACCTCCAGCTTTTTTAAACAATATCATAGGCAGCAGGCAAG
3390 CaTSNP6328 TTTCAACAACCGGGGTATGGTGGTCATGATAATCATTATATGGAGCCTCATGGTGGGTAT [A/G] TCAATCATGGTAATATCCCATGCAGCCACCTCAAGTACCCTTTTACATGCACCCCTCATC
3391 CaTSNP6329 CAATTCAGAAGCCTTCCAACCTCCGACCATAGACAACCTGGTTTTTCATCATCAGGGGTCT [G/A] TCTACCTCAAAGAACTCTTGAAGAGGGTTATGCCCTTGACTGCCAGCAGCAGCAGTAGTT
3392 CaTSNP6330 GAGTGTTCCTTTTTATCAACCTACAACCTGAGTCTACTCTACCTTAGCGTGAAATGAAGCA [T/C] GCGCAGAAGCGAAGTAATGATGATGGAGGAAAGCGTGCATTATAAGGGGAAGAAGTGGTTG
3393 CaTSNP6331 CACCTCCAAGTCATCTGTCCACTCCAGCAATGCAATCTCAGATGGGCTGAAAAGACTACA [C/T] GCTTGATCAGTTATATCCAACAAGGATGCTTCTCTGTTTACATAAGAACCAGAGAGATGAT
3394 CaTSNP6332 AGGACTCCTTCAAGCTCAACGAGATTCTCTTGTGGTAAGAAGAAGGAAGATGAAGAGAA [T/A] GTGATTAGAGGTATATTGGATGGAAGTGGAGAGTATACTCTTGTATATGAGGATAATGAA
3395 CaTSNP6333 ACTATCAGCTACTCCAAGATCTTCATGCTCATCCAATGGGTTTCTGGCAGTACTGTACAG [A/G] TATGTAAAAATTTGGGCAGACCACTTCTTGCTATTCCACCTCCCTCATCTGATATCTTT
3396 CaTSNP6334 CTCACAACAAGCTCAGACAAAACTCTCTCTTCTTCTTCAACACAGCAACGGGAACTCTA [G/A] CAATAACAATCGAGAGAATAGTGAGAAGCGCGTCGATTAGGTGGTTAGCGGATTAGTTT
3397 CaTSNP6335 CAACAGAATCTCTGCAATAGAGTAAGCTGTGCAGAAAGTGTAGTGGCTTCAGTCTGCA [G/A] AGTCTGAACTTTATGTTCTAGTTCGGATATATAACGCATCTTGCCTTCTTTCCACCGCGC
3398 CaTSNP6336 TTAACATCACACAAACCTTTCAAATCGCCACACAACTAGGATTACCAATAAACTATCC [C/A] TATACATATCCTTATTTCAGAAGAGGGGAAATTTCTCCAGATAGCTTATTGTAAGACAAAT
3399 CaTSNP6337 TGGAAATGCAGCTTCATTAGTAGACGGTCTGCATTTTCTAGTCTACCAAACCTGCAAGA [G/A] CTTTACCTGAGAAAAATGCGTCTCACTGAAATTCGGTCAGATATATTGGGGTTGCATCAA
3400 CaTSNP6338 TTCATTTGCTTGCTGCCTCATATCTGTCTGATTTTTCACATAAATTTTTGCAGTAATTT [G/A] GCTGCAGCTTCCGATAGACGAGGGTGGCATTTCAGTTTCGACAATATTGTAAGTACCTCTTC
3401 CaTSNP6339 GCTTTCCTGCTCAAGTTTTCCGAGAAATCTTCTGGTCAAGTGGTACCATATCGCAACCA [A/T] AGGCATGATATCTTGGCAAATGCTGCCTGTCCAGCAACTCGCACCGGTAACAACGCTT
3402 CaTSNP6340 AGACCTTAAATCTCCGATTTTGGTCTCTCCGCTTTGCCAGAACAGCTTCGGCAGGACGG [G/A] CTTTTACATACTCAATGTGGGACCCCGCTTACGTGGCACCCGAGGTTGTTAGAAAAAGA
3403 CaTSNP6341 TATTCGGGTGGGACATCAGTTTGGACACAGTTCAGACTCCCTCATCAGATTATGTCACCA [G/A] CTGCAGGTGTACCTCTTCTGTGTACAGCTGGATTTCTGGGAGAACTTAGTCGCCAAA
3404 CaTSNP6342 TATGTCATCATAAAACACAAATTGAACCACCATAAAAAATTGTCAATTGAGTAGGTGTACC [A/G] TTTGATTTGGAACAATTCCTATTCTTAAATCAGTTGAACCAATTAAGGAACCTATTGAT
3405 CaTSNP6343 GGAGTTTTGGAAGAGAAGGGTTTGGAGTCTATGATTGAAATGTGACTATGGATTACAT [T/C] AACAAAGCATTGAAAGATTGGAGAAGAACGATGTGAGGTATAGGTTCTGTGGATGTC
3406 CaTSNP6344 GTCCGTTCTTCCAGCAATCTCGCAGCAATTTGAGACCATTTGTTACCAAGGAAAGTGTG [G/A] AGGCTAATGATGAGTTCATCTTCTTGGGGAGTGAATTAACCTCTCTTGAGATCAGGTCTA
3407 CaTSNP6345 TCCTGTGGAACAAAGGCTTCTTTGGGTGGACTGTGTGGAGCTCATCTGGGTCACAATACT [T/G] TCAACATATTCAAATGAGAATTCACAATCCCGAAAATCTGAGGAAGTGTGAGAAACAATG
3408 CaTSNP6346 AGGACTTTTTTATTGCTTTGTATCTATGCTCTGTTGCTTTTTATTCTTTTTCAGTTTGT [G/C] AAACATTTCTCATCCACATTAATACAACATCTATGTCAATTCAGATTTTGAACAACATA
3409 CaTSNP6347 AGAGATTTCTAAGGAAGAATATGCTGCTTTCTACAAAAGTCTTACAAATGATTGGGAAGA [T/G] CATTTGGCTGTAAGCACCTCTCTGTTGAAGGTCAATTGGAGTTTAAAGCCATCTTTTTT
3410 CaTSNP6348 TGAAGTGTACACAAAACCTACAACAGTGAAGAGTACAACAACAATTATGTGAATGGTTA [T/C] GAGAGGAAAGGAGAAGGAATGAGTGATACAAGGTTTATGGAAAATGGAAAGTACTATTAC
3411 CaTSNP6349 TAGCATGTATTGATCACAGAGGAACACCTGAAAACCTGCAAGAACTTGCACTTTGGAGC [T/A] GAAAGAAGGGCAATTTGCTGGGGAGCTGCGTATTGTGTTTCGAGGAGGCCCTGAAAAGGA
3412 CaTSNP6350 TTTCTCTTCAACAACAAGGGCTTTGCAAACAGGACATTCTTGAGAATGTGAATGATGATG [C/T] AGCCATCTATAAAGACAAGGCCAACAGAATAAATGACCACAAAGTGTGATCACAGGATCC
3413 CaTSNP6351 TGGTGACTATATTAGACATTTTCTTCCAGTTTTTAAAGATATACCAAGGAGTACATCTA [C/T] GAACCATGGACTGCCTCTAAGCATCCAAACCAAGCTAATTGCATAATTGGAAGAGC
3414 CaTSNP6352 TAGATTGACCGCGTTGATGATCCTGAGTCCGTCAGCGATCCGTTGGAGGCCTAAGTAC [G/C] ATAGGACAAAGACTTGAAGGCTAGCAGAAGTACTTGGATTGCCATTTGAATTTGAGCC
3415 CaTSNP6353 ACTTCGTCTCGTGGTCATAAGTATTTGGATGTAAGGACGCTGAAGAATTAATGCTGG [G/A] CACGCTCCTGGTGCATTAACATACCTTATATGTACAGAGTCCGATCAGGGATGACAAAG
3416 CaTSNP6354 ATTGATTGCGGTGTATTGGCTTTTTCAGCATTCTCAAGAACAAGCTTGAGAAATCATT [T/G] GACCAAGGTTCAATTGTTGCCACCTTAGGGGTCATCTGTATCACTGTTTCATCTTTGTTG

3417 CaTSNP6355 GCAGAGGAAGGCGGAGTCGGGACGGCAGTAGAGTGTGGCGGTGGCGGATTGCAAGAGTC [A/G] CATAATTTGGAAGCCATTGGAGAGAACTTTCTTTTTTTGTTTGAATTTGAATTGGAAGA
3418 CaTSNP6356 TTTTATCAGCATTATAGGTCCTGATCAGGATGCAACAGAGACCTTATTGGCATCTGATC [C/T] GGACATTGCTCCATGGATACAAAAATACCAACGGAGCCGCGACACAGTCTCTCGAACAGA
3419 CaTSNP6357 CTTAGTTCTAACTTCCCTATTTCCAACCTCAGACCCCTTTGTATGGCTTCTGACTCTGTC [C/G] CTGAAAAGATGAAAGATCGTTTAGTCGTAGAAGACGAATACATCTTCAAAGAAGAGATCC
3420 CaTSNP6358 GAAACTAGTGAATCCGATTTGTCAAGCAATGAAAGTGATGATATTCACAGGAAGAAAAGC [T/C] ACAGAAGGCACCATAAGCATCACAGGCGATCACATAATGCAGAGGTGAGGTACTCTGATT
3421 CaTSNP6359 GTTTTCGATTGTTGATTTTGTAGAAGCATCTTGTGTTCCCTCAATCGAATATCACCGTA [G/A] CATTTGGAGCAGAGATTCATGGTGGCGGGACTACCGAGGAATCCACAGTTGTTAGCACAG
3422 CaTSNP6360 TTCGCCCTAACACCGTTTACCGTTCCTACTCTCTACTATCGTTCGCTCCTTCCACGCAG [A/C] TCCTCCTCCTTCTTCCCTTACTTAACTCTTTCCAATTCACACTCTCAGGTCTCCGTTGT
3423 CaTSNP6361 ATTTTATAGCAGGTTGATTTTGGAAAGAACAGCTTTTGGTGCAGGTTTCTCATCTTCGA [G/T] GATTCCTCCTCAGAAGATTCCTCTGAAGAGCTAGAAACTGGCTTGGCTTTCTTCAAGTTC
3424 CaTSNP6362 TAACGGTTTTGATTGAGGTTGAAAGAAGAAGTAGCCAACAGAGGAAGCTAACAGCTGAG [G/A] CTCAATGGCTTATATACTGATATTGCTGTGATTTCTGCCTTTGCATTGTAACCTTTTCAT
3425 CaTSNP6363 CGCATCGGCGCTGGCGTTCGAGTTTCTGGTGAAGAGTGTGCGGGTCCACAGCAGA [G/A] GCGTTGTGTGCGTTGAAGAAAGGAGATGTGGTTGAACTCAGTCAGGTTATGGGAATGGT
3426 CaTSNP6364 TTCAATTGCGTCACTTATATTTGAAAGGGACATGAGCGTGTGGTTCATAGGCTGGGACTC [A/G] AGGCTTCTTCTTGTGTTTATTCTGGTGTGATATGCTCTGGAATGGCATATTATGTACAA
3427 CaTSNP6365 AAGGTATCAAGCGACTGGCCGTGGGTTTGTAGTCCGCCATATCAAATTTTTCAGAAAATTA [C/T] AGACTCTACTCTCGCAGTCATTTTGTAAAGGGTTGGAAGTTGTGCTTCTGTTGATAGTA
3428 CaTSNP6366 ATTATAGATCACGGTCGCACGCAGCTGAACTAACGGCTGGCTACTATAATACCCGACACA [T/A] CGATGGATATCTTCCAATAGCCAAAATGTTTGCAAAGCATGGGGTTGTCTTCAATTTTAC
3429 CaTSNP6367 AGAGAAAATCTGGGTACCATTCAAATCTGAAATTTTCTCTCTATCTTTCTGGGCACTA [T/C] ACAATCTAATCTACCCATTTTTTCCCTTCAAATCCGACATTTTCCCAGAAAATGTCCC
3430 CaTSNP6368 AATAAACTAAAGCTATCTATATCTATATATGTATATGTATATGTATGTTGTTGTTG [G/A] CACTTAAGCAATAGAATCATGACCATGTCCCATCATCGCATGATGAACAACCTCTTGTG
3431 CaTSNP6369 GACCGGGCTGTGTCTGGACCCGGACCCGGTCCGAGAAACAGTGTGCATCTGCTAGAGA [T/C] GAGATTTCCGGCAGATGAAAGCGCGCAGGAGGACCGCGACTTTTTGGACAGCGTGTCTCT
3432 CaTSNP6370 AAAGGAGACACAATAAAGGTACAAACAAGTAACTTATTGTGTTTTACATCATAACATGC [C/T] TTGGTTCAGTACTAACATCAGTAATAAAACACGTACACAATAAGAGATATTGTCATAGT
3433 CaTSNP6371 TAGTCCATTGTTGAGTTTAGGAGCTGTGCATTGATTTGTGTTGCTACTTGTGTTGTTG [A/G] AGGAGACGGATCAGTGTGGTGAATCCTCCTGCTTTTTTAAGGATTCTGATTATGTCTGTT
3434 CaTSNP6372 GCAAAAATACAGTACGGAATTAGCTACTTACAGTAATGAAAAGAGCTGAAGCTATTTGCAC [T/A] AACTTCGACGCTACCAATATAAAAATTGAGAAAGTAGTTGGGACTGGAGATGCTAAGAAT
3435 CaTSNP6373 AACAACTCAAGAAAAAGAAGTATTTCTTACATGGTTTTATATTATGCAGTAATTTACAT [C/T] AATGTGGATAAAGAGTATGGCTTCTTTTCTATCTGAAGTATTTGACTTGAGTATTGTCAA
3436 CaTSNP6374 GGGAAAAAGAGCAATGGAGGAGGAAGTAAAGTTGGTGATAATTTGAATTTGAAGCAGAA [A/G] TTATTGAATTTAGGGAGAGAAGTGTATTATGCAGAGATCGCATTGGAAGAAATTTGGGAGAA
3437 CaTSNP6375 CCAACTAGTAAATCATGGTGTAAATCTTCTTTGGTGGAGAAAAGTAAAGTTAGAGATTCA [A/G] GATCTTTTCAACCTTCCAATGTCAGAAAAGAAAAGTTTTGGCAAAGTAGCCAACATATG
3438 CaTSNP6376 ACTCATCGTAGTTTCGATATTTAATTACCCTAATTTTCAATTTAATTTTATTTTAC [A/T] ATTTTGGATTGAATTAGGGAATATATCAGAATGTTGGAAGCAATGGAAGTTTCAAGTAA
3439 CaTSNP6377 ACCAACTCGCTTGTGTCAGTTGCTACAACGTTTCGGACCATCCTTTGGCTTGACATCACC [A/G] CTGCCCCCTGAAACTGAGCCAAAATAAAGGTTGCTGGGAGATAGTTTTAGGCTCCACTAAA
3440 CaTSNP6378 TGGTTTTCATGTTTTGTTACAAATTTTATGTTATTCGTCAGTTTTATTTTGTGTAAGACA [G/A] TTGTTGAAATTTTGTTTTAAATTAATTATGACAAGCCAAATCAAATAAAATTTGCAAAAC
3441 CaTSNP6379 AAACGCCGCGATCGGAGGAGGGTGTGAATATCCGGCGCGGATTAATCTTGATCTCCGG [T/C] TGACGCCGATTTTCTGTCAGAAAAGCGTCCGAGAAATCGTCCGCCGATCGCCGTCGATGA
3442 CaTSNP6380 AGGTCGTCTAAGTGGACGTATTGCCCTTGCTTTATGATTCGATAATGGGCTCATTTCT [G/C] TGATAAGTGAAGAGCAGTATTAGACTTGGTGGCATTGTGGGCATAAGAAAGGGGCCAA
3443 CaTSNP6381 GAAGAATCAATTATACAATACTTAAAGTGCTCAAACTTGGACATTCATTGCACTTACTT [T/A] ACAAATTAATTAACAATAAGAAATTCACATAGTTTTAATTTACTTTCCAGGAACAAAGT
3444 CaTSNP6382 TGCAAGCTCCTCCTGTGCAAATTTAAAGCTTCTTCTACTTTTCCATTCCTGATTAGTTC [T/G] ATCAACCGTTGCTGTTGAAGATGGAAAAATAATTGGGGTTCTGTCTAGTATCTCAGGA
3445 CaTSNP6383 ATTTCTGCTTTTCTGTTGAGGGATAGATGGAGAGAAGAAGAGGAAGAAGAAGAAGAG [A/G] TTGCATGAGAAATGGTTGTTTGTGAGTTGGTGAAGGAACATGGATCGGGAACCTCGATTT
3446 CaTSNP6384 TGGCTCTTATCCTGCTGTGCCAGGCTTACAACATCCAATGGCATATCCTGCTGCTGGAAT [C/G] ATTAGTGAAGGCCATGAATAGTCTCCTGCTGTTTCACTGGAAATAGCAACTCC

3447 CaTSNP6385 ATACCCTACCGCGCACGCGGCAACGAATTTGGCGTCTGATCCGATAAGCCATAGTGTA [A/C] GGCAGCGATTTCAGCGGAGGTATGAGGAGATCTGGACGGAGAACAACCTGTACTGGACGAC
3448 CaTSNP6386 TTCATTCAAAGCTACACCAATTATATATTTCAACTGTTTACAGAAAAGACTTCTTTTCATTC [A/T] TAGCTTCTGTTC AATTCAATTCAATCTTTGAAAGATGGCCAATAGAAAATGTTGCTGCTAAT
3449 CaTSNP6387 TGTTGATAGGGATGAGTTTGGTTTGGCTTTTGGTTTAGTGGTGGTGAGACCAGGAAAGACGC [T/C] GGACCGCTAGTGAGGCGCAGAGTTATTGGGCTGTGCTGATTTCAAAGGATGGTTTGGT
3450 CaTSNP6388 AAAGAAGCATAGTGATTTCCATACAAAAGACCATCATACTCATTGATTAAGAATGAAAG [A/G] ACTTCATCATTCAATTATAAAAAGCACTCTTAATGTTCCATTTTATGAATTGCCAGGGGCT
3451 CaTSNP6389 TTTGTGATCATAGAATTTTAGGGTTTGGTGAATTTGGTATCAGTTTCTATTTAAAGAGCA [A/T] GTATTACTCTGTTTCAATGTTAAAACCGTGATCAAATTTGTTGTTCCCTGTTTAAATTTGCT
3452 CaTSNP6390 AAATCTTGCAGTTTTTCACAATGTCTGTCCACTCAGGCAGCTCCATCTTGCCAGATCGCTT [A/G] AGGTGAGCGGAGTAGCCTTAACGAATTCATGAGGAGAACAACATCCTTCACCTGTCTCGAA
3453 CaTSNP6391 TGGTGTACCAAGGTTTCAAAACTTAAAAAGACAACACTACGAAACAAGGTGGAACACCAAT [C/T] GACGTTTCAACTGAGATACGAAGACAATCAACATGGGAACTCGAAGTCTTCAAAGAACGC
3454 CaTSNP6392 AACAAAGTTTTAAACAATAACAATGTACAAAATATCTCATTTTGTAGACCATGCATGAGA [T/C] AACATAGCTATCAAAAAAAGCTTGGAAAGCAAAAACAACCTTAAAGCACAAAACGACAAC
3455 CaTSNP6393 TTTATCATACTCGACATGTTCAATCTTCGAACGATAAATGTCGATATTGAAAGAGAACAA [G/A] CATATATTCAAACAGGTGCTACGCTGGGTGAAGTTTATTATAGAATTTATGAAAAGAGTA
3456 CaTSNP6394 TCCCTTTGATCGACACGGCATGCTGAAAACAATATCTTCAGCTATTCCGTATGGATTTCC [A/G] CTGGTATACACACCGGTAGAAAACCAATCACCTTGGGCGTAGGAGTGATTAAGATCGT
3457 CaTSNP6395 CTGGCTTATATGCTGTTCTGTTAATTTCTTTTGTAGACATGTTACTGGACTTCCATACA [A/C] CACTCTGATTCCGTTGACTTACCGCACACCCACCAGGCCAAGTTCTGAAGCTGCTGCTGG
3458 CaTSNP6396 GTTGTTCAGTGCCATCGTTGGACCCTTGGTCCAAGCTTGTGTTGGTCCACCTTCTA [T/C] GTCCTCCCCCTCTACTGCAGAAAACAGGAACATCAGCTACAAGTTGAGCAACTGCACCAGC
3459 CaTSNP6397 GAAGGCTGAGGTTCCACCAAAAAGAAAGAGGTCAGATAAAGATGATTCAGATGATGACGA [C/T] GGTGGAGAAGATGATGAAAGGCCCTCTAAGAAATAGAGTTGGGTCCATTGGTTTGGCTTGA
3460 CaTSNP6398 GAGTGTACCGAGTTGACTCACCGCACGCGCCACACAAGTTGAACACTGATCATTGTTCAA [A/G] TCACCACGGCACTGAAAAGACCGTATACGGTTTTCCGACGCGGGGTTCCGGGAACGGTG
3461 CaTSNP6399 TTGGAAGGTCCTGAATATGTAAGAAAGGTATCAGAAAATGTTATGCTCATATGAAAGCT [G/C] AAGGGACATATGGTATGCTGAAGAAAAGCCATTCAAGAATTTAGAGAAGCTTACAAGG
3462 CaTSNP6400 CGTCGTAGAGGTTATGTCGACGAGGGTCAFTTGGCGCAATTGAGTTACCGGATGTTGT [T/C] ATTCCGGTGATACTCAAACATATTAGACATGATATTGCGGCTTGATGTTAATGTGTGGTG
3463 CaTSNP6401 CTTCTCTTCTCCTCAAGTTTACTCTGAATATTTACCCTCTTCTCAACATACTGTTCTCG [A/G] GTGACGAGACCAACAGTTTCTTCTTAAAAGCAGTCTCAAGAATCTCGGAAGTCTGAGG
3464 CaTSNP6402 ATATTTCTTCTGGGTAACAGTACATTTGAATCAGCTACAACTGTCCATTTTGTGTCTT [C/T] GGTGCTCATTTCGAATCTTGACCCAGATAAACCATAGATGATCCATCAACCTCTTCA
3465 CaTSNP6403 ATTCAATCTTGA AAAAGGGGCATCTATTTGGCTCTGTCTGAATTACATCAAATCCCAT [T/C] TCAGTTGGATCGGTTGCTTGAAGTTCATATGATATCCATCCAAGCTCTTCTCAACCCA
3466 CaTSNP6404 AACTAAGATGAAAACCACCATCTTCATTTTTTCTCATTTCAACCCTAATTTTCATTCCATT [C/T] CATTATCCGATGCTATTTACGAATCGATCCTGCTAATTC AATTTCTTTCACCGAACCAT
3467 CaTSNP6405 TTTTCACATAAAAATTC AACATGGTGAACATTAACAACCCCATAACTCTTCTCATTTG [G/A] ATGAGAACGATTCATTATGAATTACACCCCTCCAACAGCAGTATGAGCTTTTATCGTCA
3468 CaTSNP6406 TAAGCCAGATGATGTACCCTTGTTTGGGATAGGTTACCTATGACTATTGCTTTTACGTC [A/G] ATCATTGCAATATTCATCATTGAGAGGATTGATGAGAGGAAAGGAATGATCTCTATTGTA
3469 CaTSNP6407 GAACTTATCAGTGATCGAAGTCTTCCAGAATCTACTATCTTCCAGGAACCTAGGCCTGGC [G/C] AGGTGAGCAAAATACAACCTAATACGACGGTACGAGTCTTATGACACTATTATACATC
3470 CaTSNP6408 ATGTTAATTATGGTTTATATATGTACAAAAAAGCTCGAAGACATGCGAGTTTATTTAAATC [G/A] AGGTCTTCTGTAGCTAAGAAGGGTGTATGTTTAAATAAAGTATTATGTAGTTTGGTACCA
3471 CaTSNP6409 TGCTGCAACTGAGAGCTCAAGTCTCTATTTTCGCTTCCCAAAATATGACGTAAGTCTC [A/G] GAATTTGGACTCTTGAAAACATCAGGTTTTGAGATAAAGAAAAGAAATTTTTGGTTCTC
3472 CaTSNP6410 GGGTGTGGTCAATTTTCCGGTGAAGTTTATGCGTTAGACACTGAAACATTTATCATGGAC [G/A] AGGTTGGACGATAAAGTAGAATCAGGTGGCCATCCAGGGCCCCGTGGGTGGTGGCATTCT
3473 CaTSNP6411 TCCCACCGAGTCAACTCGGAGTATCTTACTCCAATCAGGCACGTTACCGGCGCTGACGT [G/A] GCCATATTATGCTCCGCCCTCTGTGACGCACGATGGACGATCCTCGTTGAATTATCGAAC
3474 CaTSNP6412 AATTGGGTCTCCCTTTGGTTCCCTTCTTCTGAGTGATCATGGGTATGCCCTGTCGTTGTTT [T/C] CATACTTCCCACATCACTGAAATCATCATCACTAGCTTCTTTCGCCATAAGTCTTAGATC
3475 CaTSNP6413 TTTCCCTGTTAAGATTTCTTCTTCCCTTTTCTCCTTCTTATCTCTTCTTCTCAATTC [C/T] ACCACAACCACTCCTTCTTATCATCAATCAGGTAGGAGATCTTTCATCTGAAAACGTAGA
3476 CaTSNP6414 TTTACAGGTGTTGATGGATCAGAGGAAGAGGATGATATCGAATCGAATCGGC [T/C] AGACGGTCTCGGATGAGGAAACAGAAGCACTTGGATGATCTTGTGTCTCAAGTGGCTAAG

3477 CaTSNP6415 ATGATTAGGAATAGATACATTCTCCTTCTCAGTTGGTGGAGGTGGGAGTTTTGAGGAACC [A/G] GGTCTTCCCAAGGACGGAGTTCTCTTGCAAACCAACACCTTGAACCCCTTGCTGCTTCA
3478 CaTSNP6416 CGTGAAGATCTTCCGAGTCCGACCACCGTCTACGGTCGATTGTCCAGCCTCAGCCCTCA [T/C] CGTCAAAGATCTCATCTCGCGGCTTCTTTCAAATCGTATCTCGTGGAAAAGCAATGGCAT
3479 CaTSNP6417 TTCCTTTACATCACTGTGTTGACCATTATTGGTTATAGTAGACAAACTGATACCCTATT [G/A] CAGGTAACACTGAATGTGATGGTGTGGAGTTTTGGGTATTGCTTGGGCTTTTGGTGGTA
3480 CaTSNP6418 AAAAACTATCCATTGTTTCTGAACATTCTTGGGCCTCTCCTGGGCCTACGATTGGG [C/A] CGAGAACCAGTCATGACGAAGATGTCTTCTCGATCTCTCCTTCGAAAGTGCATCCAG
3481 CaTSNP6419 CGCGCTTGCAATCTCATAACAATTGTTTATCCGGGAAATAACAAATGTTCCAAAGCTTAT [G/A] TAGATCACCGACTTATCTCGCTTGAATTGAGCCAAGCCAAACACTTTCCACACTCACC
3482 CaTSNP6420 TAGCAATGGAAGATGGGCAATGTTGGTTTTGCTGTTGGGTTGTTAACCGAGTTTGCAAC [C/T] GGCTCAGACTTGTGCGATCAAATGAAGATCCTTCTCTCGAATTTTGGGATACTAGATTTG
3483 CaTSNP6421 CGGAAAGGGACACTATATATCGCGAATCTTGGAGACTCTCGCGCTGTGATCGGTTCAATA [G/T] GTGGATCTAACAAAGATCATTGCTGAACAGTTGACAAGAGAGCACAATGCCAGCAAAGAAG
3484 CaTSNP6422 CATACCATATAGATTTAAGATTGGGGAGAAAAATACCTTGGATATTTAGATGAATTGGA [G/A] GTTCTTGTTATAAGTTCTCAAAAAGGCCAAAGGGATGCTATTTCCAAAGGAGGTTGGGAA
3485 CaTSNP6423 AACTGTCAACAGGCTAACATTGTGTTGAGCAGAGAGCTTCCACAGTTTACATAATC [C/A] GGTGGTCGCAATCTCAGCTAGAACACAGAGCTGGGCAGCATGCTTCTCAATCACTTTT
3486 CaTSNP6424 TGCTTCAACTAGCTGTGACTTTGGAGGGGTTGCTACAATTGTTACCCTAACCCTAGTTC [C/T] GGTACTTGATCTATCCACCATCTCAGGAGGAGCAGGCACATCTGGCTCTGGCACTACA
3487 CaTSNP6425 CCTCTAATTGCAATATACATTGGGATATTGACTCCTTTCAAACCTGGCCAAAGCAAATGC [A/G] ACATTTGCATTATAGAAAAATGAAACCAGGAGTAGTTGCTTGGCCGTTGCCATATCCACT
3488 CaTSNP6426 CCGCTCCAAAAATAGCTCCATCTCCACAATTTGCAGCTCCTTCCACTTATCCTCTAAATC [G/A] ACCCTCTTAGAATTCTCAATCAACTCCAATCCCTTTTTCGCCACATTCTCATTCAAACCA
3489 CaTSNP6427 AATCTAACCTCTACAACCTCCCATTTCAAATCCCCCTTCTCCTCTGTTACTCTCCATCA [C/A] AGAAAAATCACCTCCTTTTTCCACAGTACACATAGATCAAAGCTGCTGCTGCAACAACAG
3490 CaTSNP6429 TAAAGAAGCAAAGTAATATCAAACCTTGGAAATAGTTAGTGCCGGCTCCACTGTTCCCT [A/G] AGAATGTCGAGACATATACTGCCATTACTGTTGATGTTTGGATGGAATACCTTAGTCCTA
3491 CaTSNP6430 TTTAGGCATTCATTAAGAAATGCTTAGATTCACTTTGATGTATCATATTAGGAAAACCTG [G/A] TTGTGAGCAAACAGTATCAGGCCTTGATGGGTGTTTGATATTATTGCCAAAGCTGTTTAT
3492 CaTSNP6431 CCTGTCTGTGTGCTTCTGCTAATTGCTCCTGCAACTCAGCTAGATCCTTTTTCATGGTGC [C/T] GATCGACTTGTATTACAGAGCTAGAGGATTAAGAACTTCAACCACCTTTTCATGGAGGAG
3493 CaTSNP6432 CATGCTTCTGATCTTGGTTCATCAGAAATATTACCATTTTGGAGTATTTCTTTCTCCG [C/G] CAAATGAGGCTTATAACACTATGGTATCTGTAAAGAAGGAGTGGGAAAACCAAGCAGTGT
3494 CaTSNP6433 ACCAACCACCGTCTCCGCCACCGCATACTCAAGACCAGCCTCATAATCCTTCCACAAATC [A/C] TCCGCCACATACCGGCCTTAATCCACTCATTAGCACCACCATCTTCCACATAACCAAA
3495 CaTSNP6434 TGATGCACCTGATTATTTAATTTCAAATCTTACTCTAATGTGCACAAAGAATTTAAAGG [G/A] TTGCTTTGGGATGATGGGTGTGCACAAGATAGTTTGAATTTCAATTCATTTGATGATGTT
3496 CaTSNP6435 AAATGGCTATCTTTTGCTGGAATCTTTTCTCTGAAGTGAATGGAGCAGTGCTCACCAC [T/C] ATTGTGTCCACAATAACAGCTGCATATGTTGCATTCATAATTTACCTTATTTCAAGTGCC
3497 CaTSNP6436 CCAAATGGAAGAAATGAACTTCCCTGAGGATCTATTCACTGTAATAATTCATCCTTCCAT [T/G] CTCCAGTCCCAAGCTGGCAAATGGGTGCACCACCTGGCATGGGCATCTCAGTTCAATATA
3498 CaTSNP6437 TTCTGTGCTCCGGCGGTATCATCGACGGCCTCAGCGCTACGTTGAGCCGATTTTTGT [T/A] AGCGTGTGTTGCGACTGTGCTAATGCTTGTGGATGTGAGATCACGCGGTTAGGTATTCT
3499 CaTSNP6438 TAGCAAGACAGCAGTGTGGAGCGCAACATCAGGTTTTACGATTGTTCCGGAATGGCGA [C/T] CTTGCAACCATGCAATCCATGTGGTCAAAAAGAGACGAGGTATGCTGTGTACATCCCGGT
3500 CaTSNP6439 AGGAACAGAATGAACATCTTGCTTCAAATCTTGCAATTTCCAAAAGATCCAGGTTGAGA [A/G] ACACCTTCCAGGAGCTTCTCTGAACCCGGTTCAATATTATTATTTCCATTTCCACCAATA
3501 CaTSNP6440 GTC AATTCTTGCTCATAAAAAATCTTCCATTGAAGATCTCTTCCAGGGGAGCTAGCATA [A/C] CCATAGCTGAATTTTCCATCTGACTGAGCCCCCACCCTAACAGGTGAATCATCAGCA
3502 CaTSNP6441 TTTGTTGCCGAAAGGGAACCTCCGATGAGGCTGGTCTATCGATGCATACTTGTTTAGC [C/T] TGGTAGATGAAGACGACAAAAGCATTGAGCCAGGTAACCTTGAACGTCATTGGGGATTGT
3503 CaTSNP6442 ATAGTAGTACAATCCACATAATGGGTGATAAAATCACAAGACAACTCAACGTCAAAGGA [G/C] CAAGGCAACAAATATGCTGCAAAAACAAAACCTCGGCTCAGGATAGTAGTATCCCTTGAT
3504 CaTSNP6443 ACCATTAGTATTAAGTGTATGTCGTAGATGAAAGGTTGGCTCAGATGCATTAGCAAGTAT [C/T] TGAGACAGCATTTGTTGATTGCTTTGAGAAATAACCTTCTCAGATCCATTTCTTCTGCT
3505 CaTSNP6444 AGTGACCATCTGAACAGAATTGAGCAACTCACCTATATATACAGCATCTTGTTCGTCTAA [C/T] GAACCATGCTCACGGCTAATCCCTATCCAAGATTCTTCACTTCCCATCAAATGAAGAA
3506 CaTSNP6445 GAACATAGTCCACTCCTTCTACATCTCTCCTTACCCTTGCCATGGTCTTTCCAGT [T/C] TCTGTTACACCTGATTCCTTAGTGTGGGACACCTTGGTGGACAATCCATTGAGCATCA

3537 CaTSNP6477 GGAACAAGTGCCAGAACATGCCTTCCATTTTTGCTTGCGGCCACTGTGTAGGCTACAT [A/G] GTTGGTTCTGGGTTGCCGTGAATGTGAAGAAGGTTTTCCATCCTATAAATTTGCTGTGCA
3538 CaTSNP6478 CGCCGGTGCCGCACGAGCTGCAACTACTGGTTTCGGTGGTTTCGCTGGTTGCCGCGCAGC [T/C] CGTTTACGGAGGCAGAGTAACAGAATTAGAAGTAGTAACGCTATGAAAAGAACGGAAACCA
3539 CaTSNP6479 GTTTAGTGCACTTTCCAGTTGTTGAGGTGGCAACTGCAATAATACATGAAAAGAACGTTGG [C/T] TGTGTCTGATATACACATTTAAGAAACCAACCCAAAGTTTTGGCATTGCCACACCTGT
3540 CaTSNP6480 GCTATGATCTCACCTGCAAATTCGAATGTTGAAACTTGTATTCTCAATGAGTTCTATTAT [T/C] TACAAACTGGTGATACTGCAAAACTTCCTCTGCTTTGCCATTACCCTGTTAAGGCACAAT
3541 CaTSNP6481 AAGATATTAACGCCGTTTCGAGCCATGGAGATTAATAATGTACCCGGAAGTGTCTCCGCTC [G/C] AAGGTCCAATACTTATTCTAGCTTCACAGTTTTGGTTCATCTCAAAGCTACAGCTGCAGT
3542 CaTSNP6482 ATTGTCCACCTCATCCACCTTACGCAGCTTCCTCATAGTTCCATGTGATGAGATATCAGC [A/C] GCCTCCTCATCGCCTATGTATGAGGTCTAGATGGAACAGTATCTCCATACTCGTCATTT
3543 CaTSNP6483 TTTCAATTCATTTCTTGCAATTGACATTGACACAAGTGGTTATGGACCAACGAGTTGTGC [G/A] GCTACATTTGGTGGGAATCATCTGAATCGTGCAAGTAAAGCCTTCCAAGAATGTCCCTT
3544 CaTSNP6484 CCAGGTGTTACTTTCTTGCTTTCTACCTTGAATTCCCTGAAATTACCAGTCATAAAACAA [C/T] GTATCGCCATTGACCTCATCAATTTTTCCCAAACAGATCAGGCTGATTATGTAGCCT
3545 CaTSNP6485 AAATGAGGAGGAGAGGGTAAAGGGAAAGACAGTTGAAGTTGGAAGAGCACATTTTGAGAC [G/A] GAGACATCAAGGTTTACAATTTTGATGCACCAGGTCACAAGAGTTATGTCCCTAACATG
3546 CaTSNP6486 CAAAACCTGGAGAGCTGAAATATTAGTTAGTGACATGGGAATAGGACCCATCAAGCTGTT [A/G] TTATTAAGCCGGAGGAAACGCAATTTGGACAACCTGCCCAATGAATCCGGGATAGGGCCA
3547 CaTSNP6487 CATTAAAGAGAATGCACAAAAGCCTAGACATGATTCCTGTATTGTGAGAAACCTTGAGT [A/G] CACGAATATCCAATACTGAATAATTCACGAAATTAATTTAGAGAGAAAAAGAGTAA
3548 CaTSNP6488 ATCCAACCTCTTTGGAAATTCGAATCTCTTTGCAACTGCGATTTCAAATCCGTACCGCA [C/A] GAAAAGGCCCCATTACCGAATAATCCAAGCTTCCCCATTTCCAATCCCAACCCCA
3549 CaTSNP6489 GGTATCAGATGTCTTTAATTGATCAAAAGCGTCAGCTGACGATGACCGCAAGAATGTCG [C/T] ATCCTCGTCATTGTATGGAAGATTAACATTGCACTCTTGAAGCTGCTTAAAAAGAAGCCC
3550 CaTSNP6490 GAAACATCTTTGGCAGTTTAAAAGATGCCTAGTTATACAGCCATAGCAAGACCTATGCGA [A/G] CAAGGTGCAATCCGGGCATCAGCTTCACACGCGTAACATATGCAGCACAGCTATCATCA
3551 CaTSNP6491 AATGGAGAAGGAGGCTATGGAGTGTACGAAGAGGCTTTTGTAAAGGGAAAGAAGATGAG [C/T] GATATTGCTTATAATTCAGTGCTTGATGCTCTTTCCAAGAATGGAAAATTTGATGAGGCG
3552 CaTSNP6492 TTTGTTTCATTGCAATTCGAGAATGCATTGAATCATGAACACGCTTAAACTCTCTCTCGGA [T/G] TTGCCGGAATCATTAGGTGCTGAATTTCCCTTCTCTGCGATTATTTTCTTTGAATTA
3553 CaTSNP6493 TCTCTCGAAGTGATTCCTCAAACGATTTCATCACCTAAAGAGACTATAGAATTCCCATCA [G/A] CAGCATCTTCTCCATCGATCGAAAAGAGACATACTCCGGTTCAAAAGGTTGCCATTTCT
3554 CaTSNP6494 AACATATACTACAATGTGTGGTATACTTGCCGTGCTTGGTTGTTCCGATCCTTCTCGAGC [T/C] AAGAGGGTTCGCGTTCCTTGAGCTTCTCGCAGATTGAAGCACCGTGGCCCTGACTGGAGT
3555 CaTSNP6495 ATTTCTATTACCACCCCTTCCCATAAATTCCTTCTCGCTTCTCAGATCTGAAAAAC [T/A] AACTCATGGCTGCCAACAAATCAATCTCCCTCGAAGAAATCAAGAACGAAACCGTTGAT
3556 CaTSNP6496 ATCTTAGGACTGCAATGCGCATGAAGATATCTAGGCCACGTGCAAGTTCAGAGCCACT [T/C] GTTTTCTTGTAGGCCAATCCAAAACAGATTCCCCAGGTTTGGATTCTCGTAGACGATAGG
3557 CaTSNP6497 GGCCTGGTACATGAACCCAGCCTTCTCAGTTCTGATAGGAGGAATACTCCATTTGGAGC [G/T] GTTTTCATTGAGCTTTTCTTTCATCCTCACCTCAATCTGGCTGAATCAGTTTTACTACATC
3558 CaTSNP6498 AGAAAAGAACTTAAGTCGGTCTCTGGGTAATCTTCAAAGTTTTTGTAAATCATCTCTAG [A/T] GTGCACTGAAAACAGCTTCAAATATGCGAGGAACGCTTCAATCATTGCAGCTTTATAT
3559 CaTSNP6499 CCTGTACTTCCCCTTAAACATTGAGGCACCTAATAATGAAGATGCTTTGAAGCTTGGACTT [A/G] CTGTGCTTGCAAGCTGTAAGGAGTTGCAAGGTTTGAACACATCAGCGTTGAACAAATTTG
3560 CaTSNP6500 AACTAGGGTAACAGCCTTAAGAATAGTTGAATTCCTTCTCACTCTGTGAATCTTCAAC [A/G] GGAACAGAATCCTTATCTTCAATATCATCACCACCGCATTTTTCCCTCATCGTCATTC
3561 CaTSNP6501 CACGCTCAGGGCAGGTCGTTCCAGTAAAGTTTTCCATGGCATTGTGGAACCAATATTTA [A/G] GCTTGTGGGTTTAGATTGGAGGTAGTCAAACAACATCTGCTGGTATGCCAGAAGTCT
3562 CaTSNP6502 TGGATTTTCTCGGGTAGCGGCTGGTGTCTCTGAAGAAAACAAAGCTAGATGTGGAATATC [C/A] TTATATCACACTTTTACACGTGATCATGGCCATGGTAGCATAATTTAGTTTTATGAT
3563 CaTSNP6503 GATCATCCAAGAGAGCTAGCTAGCTAGCTAAAAATGTTATTGAATCATCAGTCTTATTATG [G/C] ACTGATCCAATCCCAGTGTATGTGTATTTGAACTTGAATGGGATTGGGTATTGATTTGT
3564 CaTSNP6504 GCCCCAGAATACGGGCTTTTACCCAACCTCAACTTCAGACAGGCTCCTAATCCAAC [G/C] CATCCGCAAGATTTCTGGACAATGGTCTTCAAATGATTGAGTTCCCTGGAAGAGTAGTTG
3565 CaTSNP6505 TGCTATATTCTGGACAGACTATGTTGCAACAAGGTGGTATAGGGCTCCTGAGTTGTGTGG [A/T] TCCTTTTTCTCCAAGTATACACCGCTATAGACATATGGAGCATTGGCTGCATTTTCGCA
3566 CaTSNP6506 TTTGTAGCTCGATGCCATTTTCTTCAAGATCAATATAGGTTAAAGCAGTCTCTTGTG [A/T] ACAGGATTGAATGGAAGAAAATGAACCTCCCTAATACCGCTCTTGCCTTTTTGGATCA

3567 CaTSNP6508 GTCCTCAACGTTACTGTTGATGTTTCGAACAAACAAAGTCTGGATGGATGCTCACCGTA [T/C] GGATGCTCCCCGGCAACTGTTCCACACCATTTGCAATTGCATAAGATCCAATACCATTT
3568 CaTSNP6509 TCTAACAAAGGACCAGTTTAGAATAGTAACAGGGCCAGTAAGCATTCTTTTCATAGGCCG [T/C] TTGGTCAAACCTTTGAGCTGTTGAAGACCAGAAAACAGTCATTGGCTTGGGACGGCTCACA
3569 CaTSNP6510 ATTTAGATAATGACCCACCTGCCCTCTAATTGCAGCATACTTGTGCTGATGGCTTCTC [T/G] GCTCGAGCCATATCTGATGTTCTCTTCGTCCAAAGTTTTTCGATAGACCTCTGTTCCGTTCT
3570 CaTSNP6511 AAGAGTTGGGTACTTCAGTTTGTGTTAGCTTCCACCAACCAATACGTCAAACCTCTGGTAC [A/T] CGCGGCAACAGTGACTCTTCCAGTACTGGTCCAATTCAGATTTTGTCTGTTGGCTACTA
3571 CaTSNP6512 ATCGATGATGATGAAGTTTCTTTGCAGCTTTGGCGGTAGAATATTGCCGCGACCAAGTGA [T/C] GGAAACTAAGGTATGTTGGAGGCCAAACGCATATTTCTCCGTATAAGAACGGACTTATCT
3572 CaTSNP6513 AATGAAAGGCTGTTCTAGAAGAGCAAGCTCCCCTAGTCTCTTCGAGATCCTTCCCTCGAC [A/G] ATTTTTTCTCTTATGTTCTCGGGTTTCGAAGCAAGGTCTTCTCTTTGCATTTTCGAGTTCT
3573 CaTSNP6514 GGAGATCGAATTCGTGAAGAAATTGACGCCGAAATTTTCGGAGTTTCGGCGCGCTATT [G/T] TCGCCGATTTTCAGCAAGAAGTTCTGGAAAAGTGGAGGCCATAGGGCGAAGATTCGAATT
3574 CaTSNP6515 GTATGACCAAGTAGCTGTCTACGGTTTCAGCGATAAAGTGGGCCCTTCTCTTTCCCTCA [T/A] AGAGAGGACTCATATGGGATGGCCAAACCATACAGCAGCAAACTGGTGAATCATCGAT
3575 CaTSNP6516 CAATGTCAGGTGCAAAAGGGATGGTTTATATGGAGTACAGTACTGGGCGTAAAGGCCAAG [C/T] ACAGATCAAAGCAAGCCGAAAGATCCAGCGAAGAGACACTTCTTATTCAAAAGACGATA
3576 CaTSNP6517 TAGTGAGAGTTACCTAATGAAAAAGTCAGGAATACTAGTTTCAATAGACGAATGACTGC [T/A] CCATCATCTGAAAGTACATCAATTCAAACGGGCAGATCAGCTCCCTCTGTTACCCATGGG
3577 CaTSNP6518 CTTCAACACCTTCTTCTCTTATTAAAAGCAGTGCATCTTCATAAGCTTGCCTTTTCTC [C/A] GCAGCATGGACGACTTGAAGGAAATCAATAACCAGTTTTCCATCTTAGATGCATAACCA
3578 CaTSNP6519 GATTGGAACGCTGGCCTATACTTAGCAACTAAGTGGCTGTACTCCACCGCGCTCAG [T/C] ACGACGATGAGTTTGTCTTAGCCTTGTAGGCTGTGCGTACAGCAGAGGATGCAAGGCTT
3579 CaTSNP6520 CCAAACATCTGGGTTATTGGCTGTGGCAAATAAAGAAACATCTGATATAACGTAGCACT [A/G] TAGGAAGTGAACACTGTTTTCCCTGTATTGTATCTTCAAAAATCACATAAGCCACCCAA
3580 CaTSNP6521 ATTCAGTGAAGACTAGCTTAGACATCAGTCTGAAGCAACAGTTGAAGAGGAAGATGACA [C/T] GGAAGTTGAGGTTGAAAGTAAAACAAAAGAAGAAACATCTACTTCAAATCCTGAAGCTGA
3581 CaTSNP6522 GACTGAGAGTGGTGGTACTAAGGATGACCTCAAGCTTCCATCTGATGAAAGTCTGCTTTC [A/G] CAGATCAAGGATGGATTTGGTGGGTAAGATCTGATGTTGAGTGTATGTCTGCCATG
3582 CaTSNP6523 GTTAGGTTCTTCATCAGGACCTGCTGCATTAAGTTTATCATCGGAAGGACTTGTGAGTC [G/A] GGCTCAGCAAAGCCAAGGAGGCTTTCATTATCAGAGACTAGACAGATTCCTTCTGGTGAT
3583 CaTSNP6524 TATCGGATCTGGTTCACCACTGAATCGACCAGCAAGAATAATCGAGATTGTTGTTGGCAC [G/A] TAGGTATAAGACCTCCAATAACTGCAGGTAGTCGACTCCGAAGAGTGTTCGACGCAAC
3584 CaTSNP6525 TGTGGCTTGAACCTGTTTGGCTTATTGATTGGTGGCTGGAGTTAAGATCCAAATATTCA [C/T] GGATCGCGAAACTTTTCGTTAATGGGTAAGAACATGCACTTGTGCATATCCAATCAGCAG
3585 CaTSNP6526 TCCTCAGCTGGTTCAGATGTTCATAGGAGATGGAGCAAACTTGTTCGTGATGCATTTCA [A/G] CTTGCAAAAGAGAAGTCGCCATGCATTATATTTATAGATGAAATGATGCAATCGGTACA
3586 CaTSNP6527 GATGAACATTTTGCGTACATTCACAGTCAGCCATGAAGTGCCTGGTTCAGTGACCTTC [A/G] ATATTTCTCTCAAACGCTTCAAATATTATTGGTAATACCACAGTCTGTTTTGAGCAATT
3587 CaTSNP6528 AAAGACCGGGACTGGCAAGACGTTAGCCTTTGGAATTCCAATTCTCAAGGGTCTCACCAG [G/A] GATCAACAGACCAATCTCAGGCGGTCTGGTAGGCTTCCTAAAGTACTGGTCTTGCACCT
3588 CaTSNP6529 AACTTCTCTCTGACCTCCTCATCGGCTACATTATGATCTGTTGACAAGGCACAGCCTC [C/A] ACCGGACAATTCTTGTCTCAGAATACTTCTGCCAAGAACAACCTCTGGAGTCTCCGAGG
3589 CaTSNP6530 TGATGATGAGCTGTGAGCTGGGCAACTGCGCAACTTGGAAAAGATTTTTGGTGGAGATGT [T/G] AGAGTTTGCATCGAACTGCTCTCATCCTTGATATATTTAATCAGCGAGCAGCAACACAC
3590 CaTSNP6531 CAGAACCCTGGTCCAATATCCTCTGTAGCTTAGCAGTCCAAGGTCAGAAAAGGGTCTTTC [T/A] GGTGTGCCAACTTTTCCCTCCTCTTTGAAAAGTTCATAGGAGAAAACAATCAGAAATTTT
3591 CaTSNP6532 AGCATTGGCTGATTCTTTGACCATGCTGTGGGTGATGATCCATACTTCAATAAGTTGAT [T/C] CGCATTCTGGCAACCAGATGCATGAGTCAGGCAGTTTATTTCTGTAGTGGGGACCTTAGC
3592 CaTSNP6533 TAGTTCATTTGAGGGAGGAGGATGGTGCACAAATATCACAACCTTGCCTTGGTCGCAAGA [T/C] GAATCGTTTAGGTTTCATCAAAGCAAATGGCTAAGCAAATTCGCTTTTCAGGAATTTTAA
3593 CaTSNP6534 TTTGCAATCAGAACTTTGCACCAGCAATATGAATTGGTCAAAGAAAGGACTAAGAACGG [A/C] AATACACTCTATGGTTCACCGTATGCAATATGGTGACATAGGGCTCAGCGAGAATAGT
3594 CaTSNP6535 GTTGGTCTTCAATCCACTTGACACAAAATAGAGTGGGAGCAATAGACCAGACACAAGATC [T/C] TCTATTTTCTCTACAAGAGCACCTGCAAAATGGTCCGCTTTTGGAAACAAAATCCGAAA
3595 CaTSNP6536 GAATCATATCCACCAATGAGATCAAATGCCAAGTTTAGTCTTGATCCTTGGCAGGAAACA [G/C] CTATGTACAAAGGCCACACACCTGGAGGATCCCAAGAACGAGACTTTTTTGGAGTTGAAT
3596 CaTSNP6537 AGTCCTTTAATGGTTGAAATTCAGTGAAGGTGAGGGAAGATGACCGAGCATGTCCATT [A/G] CGCGAGTTTGTGGGACGACGACATCACATTCAGATTCTACTGCTCCACTGCCGGCA

3597 CaTSNP6539 CTCCACTGAAGTTGCTTATACGAAGTGTGAAATGTTCCCAATCACCTATATGCTCACAA [T/C] CTTGTAAAAAGAAATGCTTTTAATTCCAAATTTTAGAGTAGAGGGTCCATTGAATGGACA
3598 CaTSNP6540 AAATGTCAAGACGAAATGGTTTCAAGTTGTTGCAACTTGCTGTAGATTGTGCTGCCACATA [C/T] CCCGATAACCGCCCTTCGATATCTCAAGTGAAGACATCACATAGAAGAGTTGCATAGATCT
3599 CaTSNP6541 TATCACCAACAAGCTTCCAAAACCTATCAATCGAATCCTCCCTTCCAGAACCCCTCGCCA [T/A] TGCATTATAAGTACATCCATCATGCTTAAAAACTTCACTCTCCTCCACCCACCTGAAAAA
3600 CaTSNP6542 TATTATTTGAGCATTTTTGGAAATTTGATCTGACATCCCAATCCTCAACTGCTTAGGAAC [G/A] CAAACATCAAATAATATTTGGCCAAGAACCCCATAGCGTTGATGCTTGGGCGCTTGA
3601 CaTSNP6543 ATCTGGACCGCCGATTAAGGACCCCGGGCATTGTTGAGATATGCTCTTCTATTGACAA [T/C] AAGGCGATTAGAGAAGTTCAAAAACCGCTTGAAGATATTACAGATAGTCTCAAGATTGCT
3602 CaTSNP6544 CCTTCTCCTACCCAAGTAACCTTCTCCACAAGAGTTGCATGATAAGGACGTAAGAAGC [A/G] ATTAGTCTTCTGTCTTGGCAGTTGAGGTAGGGATGACGACTTACCTGGTTTCTGTTG
3603 CaTSNP6545 GGGAAATATTTCCAAGAGCAGCTTCCCTGATGGCTGGTGTCTGTTCTTGGATCGGTGAG [G/A] ATAAGCAACCTAGGTTCACTGAAGGAAGTTGTAGCTGATTGGTGAAGTTCCAGGAGTG
3604 CaTSNP6546 CAAAGCAGGAATTTTATTTACCAGTATCCGAGCTTCTCAGCTCGCTTAAGGTTTAAAGT [T/C] GCCCCTCTGCTTGCATTATACCTGTTCTCATCCCGATTATAGTCTCAAGCCAGCTCTCT
3605 CaTSNP6547 GATGCTTCATCGAATCCATGTGCTGAAAACAAAGATCCTCTTAATCATCTGATCCTCT [G/C] TGAGATTCCCATTGACAGCAACTTCCAATATGCGATCAAAACCTTCTGGAAATCAGTGT
3606 CaTSNP6548 CACCGTCTCACCTTCCGAATCTCCGGTTGAGTCTCCGATCGATTCTCCTCCCGCTCCCGT [C/T] GCTCCTACTATTTCCCCCTCCGCTTCCGAACCTGCTACCGTCCGGCATGGTCTGCTCTG
3607 CaTSNP6549 TCTAGATGGGTATTTGATGGAGAGAAGGAATAGATATGGAAAAAGATGGAAGTACTTGA [A/G] CTTGGAATGCAAGAAATAAGAACGTATTACAGGCTATTTTTATTATCTTCAGTTTTACTA
3608 CaTSNP6550 CTAAAATGATCACATTATGGTACAGCGCTCCTCTCTTCAGTTGGTTGTGAGTTTACTTG [C/T] TGAACTGTGTGACTCGGATGGGTTGTATGTGAATCCGATGTATCCAGCCGTTACTTC
3609 CaTSNP6551 CCGAGGAGAACGCCCTCCGAAACCATGTTGATGGATGCGAAAAGAGTGAGTTGAGAAAG [A/G] AGAGGCGAAAGAATGTTAATGTGAGAGTGGGGAGTAGGTTTAAATAAGTACCAGTGAAC
3610 CaTSNP6552 CGGAGAGAATATGGATCAGAATTTTCTTCAGTTTGTATCCAGCCCTAGGCAAATGAGCC [C/T] GATGTACACGCAAGACTCCAGATTATTTTTTATAATAACTTCACGTATCTGCCCGTTTGT
3611 CaTSNP6553 TACAATAGGTGTTCCAGCCGGAGGTTGGACTGCTATTAGATTGAGGGCTGATAATCCAGG [C/T] GTGTGGTTTATGCATTGCCATTTGGAAATTCATACAACATGGGGACTAAAGATGGCATTT
3612 CaTSNP6554 TGGATGGAAGTCAAGATGAAAGACTTAGCTGTGGGTATCAAGCTTTAGGGGAAGAG [G/A] GTGACCATGGAAGACTTCTATGATGTTAAGACATCAACCATGATGGTCTGTTCTGTGTGC
3613 CaTSNP6555 GCGAACAAGCACCGCTGTGTTTTGGGTAGTCTTCGATTGCTTTAGCAAAGATTGAGT [G/A] AGTTGATGTTTCATGAGCCGTTTATCGATTATGGGGACCCTAGTTTCATCATAATAACCA
3614 CaTSNP6556 TCCAACAAATGTCCATCAACTCTTGGACCCTCACCTGGTTTCTTGCCTCTTGAATTAT [T/G] GACAGTATTTCTCAATACTCTGACATGAATCATCCACATTATTACATCATTTTTGTAAC
3615 CaTSNP6557 AGCTATGGCAGCCTTAAGCTGCCATTTCCATCCCATCAACTACTTGAATTCTCATAAGTT [C/T] AACAGAAGAATCAAGCATCCATTTCTGCTCAGCTCAACCTATACAAAGCAATATAAAG
3616 CaTSNP6558 GCTTCGTATAGAGCCCGATGACCCTGAGGATGTGAAAGCCACCAACGGAAGAAAATACA [C/T] GCCTTTAAGTCCAAGATGCGGATGGAACAACCTGAAGTACACAAAATAAGCGACAAAAT
3617 CaTSNP6559 TGGCATGGTAGATACAGTGTGAGTCCAAATAAGAGGAGCAACATATAAGGTGTGAGGATA [C/G] GCAGGATTCTTGACGCTAGTTGAGGCCCAAAGGAGCCTTTGCTTCTTGGCGCCTTTTTTG
3618 CaTSNP6560 CAAAACCCACCGTTGTCAACCTCAATTCCATTATTCTCTTCTGTCGGCGTCACGATTCTCG [G/C] CAATCGTAGGTCGGAACCTCGCGAATCACAGAGCTGTGAACCTCCGTTCCGCTGATTTGT
3619 CaTSNP6561 ATTCTACCGTGAATTGAACATCTACGGAACCGTTGATTTTCATCTTTGGTAAACCGCTTAC [A/G] GTCCTTCAAAACTGCAACATCTTTGTTAGAAAACCAATGGGGAACCAACAGAACACTGTA
3620 CaTSNP6562 CATTTTCCCATTGAAGAGAAGCTTCAAGCGACCTTGAGTAGTGAAGTGTGCCATAACCC [T/C] TTGCTTATTGTATCCTTCAAAGTGGGAATTTAATCTTAAAGATTGTAACCTTCTTCTGAA
3621 CaTSNP6563 ATTTTCGGCCTGTAATTTTGCCACTAAGGTGAGTCCAAAAACATTGAGAAAGATGTAAGC [G/T] GGATTGAGTAGCTGTCCCATAGCTGCTCCATTGACTAAAATGGAACCTTATAAGAATGAAC
3622 CaTSNP6564 CTTTGATCTTTCAAGCTCTGCCAACACTTTGACAAATTCATGGGCTCAACTTCTTCTGCT [A/C] TCTCTGTTGGTGGTTTCATCTCAGATGCTTACTTGAACAGATTAACCACATGTTTGGCTT
3623 CaTSNP6565 TAAAGGTTATGAAGGTGTTGTGACTCGTTGGGCGTCACTCGTCTTCCACGAAAGACACA [T/C] AGAGGCTCAGGAAGGTTGCTTGTATAGGTGCCTGGCACCTGCTCGTGTCTTCTTACG
3624 CaTSNP6566 GAACCCCAAGTGCAGACAGTGAATGTTTTGCTTAAAGCAAGCATTAATGCTGATGA [C/T] CGTGCCCTTCTGCTGGATTGCTTGTATACGCAAGATGAGAAGGTTATTAAGAAGTCAGTC
3625 CaTSNP6567 GTCATCAAGGATTTAGCTGGGATAACAGGTTTTATCACATGCTCTTTTAAATCCACGGC [A/G] ATTTGTTCTGTTGCTGACAGTTTTCATCATGCTGAGTTGAGATGAGGACTGTGTGCACACGG
3626 CaTSNP6568 AAATGGAAGCAAATGTGGTTGATGGAATAGTACCGAAGCAGGACATGTAATGTAAC [T/C] CATTGGGGTAAAAATGGCCAGCCAAAGCAGACAATAAGCTACATGGCTGAGCGTCTGCT

3627 CaTSNP6569 ATGAAAAAGGCAATGCCAAGGATGAAAATGTCTCGTGGTGCCTAATTCTTGATGATTTGC [A/G] CGTAGAACTGAAGGCCATCCCCTCCCAACGTACGATGTAGTTGGGTCCCTTGCCTTTTTTGT
3628 CaTSNP6570 AGAGAAGGAAATTTGCAATCCCTTTTTGGCGGGTCTTCATGTACAGTGTCTTCGTCTAAT [G/T] CAGCACCCGATCCACTGCTGTATCATTATATCGCCTTTAGGTAATGAATCTGTTAGTC
3629 CaTSNP6571 AAAAATACACCAGAAACATACAAGGATAACTCACAAGGCAAACATCAACCCTCACCCGA [A/G] CTGTGTAGCGTGCCAGCCAGACCAGCTATCGATCTTAATACCAATCCATACTACCAGCAG
3630 CaTSNP6572 ATTGCCTGTTGTGAGAAATCAGCATTATTGCTTTGCACCTGCTAATTTGTAATGCCGC [T/A] GCCATGGAGGCACCTCCTATTTTTCTTGATAGTCTTGTACTGCCTGGGTGCTATCCTG
3631 CaTSNP6573 GTGGAGTTTGTGGATGCATTGGTTGGTGCATAATGAAACAAGCGCAGCCGGGATCAGAC [G/A] TTGGTTCTCGGCTGCACTTGTGAGTTGTATGAGCTATGGCAAGGTCTCGGAGAATGATG
3632 CaTSNP6574 CTGCAACCTCGCCTTGATGTCTACTATTTGAAATAGTTTTCCCCCTTATGTGCTTTAAT [A/G] ATAATGATCAAAAGCTTTGGGAGGAAGATCCGCATGAATATGTAGGAAAGGCTATGACA
3633 CaTSNP6575 GCCAATTATCTGCTGGTTTGAATCGCTTTCCCTGACTCGTACTCTGGATCACTTGAGG [C/T] TTCTCATTGATAATTTGAGCAAGTTGCGCCTGAGTAAGTTTCTTGTCCATCCGGGCTTGC
3634 CaTSNP6576 CATGCTGGCTTCAACTTATGCATTTTCAATTTGCCACTACAAATTTAGTGAGAAATACGC [T/A] CAAATGAAGAAGTCTCATGATGAAGAATTAGTTGCAGATGTCATGCTCTCTCGCAGGT
3635 CaTSNP6577 GTGCACCTTCACGTGTCTCCCATGATGGCTTTTTTTCATTAGCAATGTCTTCTTGATCA [G/A] TCCTTTTATTGGCTTCAGGATGAACAAGTATTGTAGAGCAAATATGAGAGGAATCCATAA
3636 CaTSNP6578 ATTCTCATCAAAATAGAAACCAACAGACAATAACAATGATGCTCAGAATTCGAAGCCG [C/T] GACGGCTTAGAACGAGTGAAAGTCGAAAATCCCAACGGAAACAAAAGTCTCCGAACTCAA
3637 CaTSNP6579 TGCATTCTCATTCTCACTTGTCTGTTTTCTGCTTTCTGAATTTTGGGTGTTCCGTCGAA [G/A] CTTTTGTCAAGGCTGCCGGTTCTCTTGTAGAGTTGATCATAGTGTGGTCTGCAATACAGC
3638 CaTSNP6580 TTTCTTCTTCTTTTTTCCACCCTACTGCCATCACATTTATTATCACCATGTTCTTTATC [T/C] GAATCTGAATCTTACCATCACCTACAACATCATCTATAACAACCTTGATCACCCTACTA
3639 CaTSNP6581 TTTTGTACAAAGAGATTGGCGAATCTAAAATCTAACTTACAGAGCAGTGTCCCTCTAAA [C/G] GCTTGTCTGTTTTTCATCAAAATATAGCCCATATGTGGTTAAGGGTTCTAGTACTTAAAT
3640 CaTSNP6582 CAGTTGCTATAAACAGTTTTCAGAACTTTTTCAGTCACTTCCAGCTTTCAATATTCTCA [G/A] GAAGAGGTCGAGGAGGATATGATCAGGGATGGGAGAGAGATCGGAGATGTCGGAGAGATT
3641 CaTSNP6583 TCCGGGATTTATTGTTGGATCTGTTTGTCTCCTGTGATCAAGTGTCTCACAACATCCA [G/T] TCCATCAATGACATGTCCAAACACAACATGAGCCTTGTCTAACCATGAAGTCTCTACAGT
3642 CaTSNP6584 AACCCCTGGGAAATCTTTCACGACCAACGAACCTTTCGAGCACAAGCTTCACAATGCAT [G/A] AACACTTTCAGCACAATCTCCGCCCTGGTGGCGGAGGACCACCCTTCTCTGTTTTT
3643 CaTSNP6585 TCAAAATCAACCACTCACAGAAATGTTATGAAAAATGACCTGTTTCAGGCAAATATATAA [T/C] GAAATGGACAGAGGCATGGAAGACAACATCAAGATTGTGAAATGGATGTATGTGAATCA
3644 CaTSNP6586 ACAAAGGACATATCCCGAAGTGATTTTAAATAAAGAAGAGTTATGAAGAGAAACGTCAGA [G/A] GAAACGTGGGAGGTCTCGTCCATGGAAGCTTAAATCACCTCCCATGGAGGTTGATGATAG
3645 CaTSNP6587 GACATGACAGAAATTCGAATAGTCGCGATAATTCAGCGGATGATTTGAATGATATTGAGA [G/A] AGAAGAAATGATCGTGCAATAGCGCTATCTCTTTTCAGAGGAGGATCCCAAAGGGAAAAA
3646 CaTSNP6588 AAGAAGAAGAACTTGAGAATCTATTTAGACCAAGTTTATTTAACTTGATTGAATTTGA [A/G] TTTCAAGTCTTGCAATGCAACTAACTCAGGGTATGGAAGTCTTTTTCTGTTGTAATACAA
3647 CaTSNP6589 GGATTAACATATCTCCATGCTCATAATATAGTACATGGGGATATCAAACCTGATAATCTG [C/T] TGTTACTCGTGATGGTACAGTAAAGATAGGGGATTTTCAGTGTGAGCCAGGCTTTTGGAG
3648 CaTSNP6590 ATTTTCGCAGTCGCAGCACCTTCCAACCACAACAGTTTCTAGGGTTTTGCGATTTATC [A/T] CACAATGGTTCTTCAAACGACATTGATCTGTTGAATCCACCAGCCGAACTCGAGAAGAG
3649 CaTSNP6591 CCTAATTGGGTTTATGGCTGGAGCTGCTATAATTGTATCTCTACAACAACGAAGAGTCT [C/T] CTTGGAATCACACATTTCACTAAACAAATGGGACTTATTCCTGTTATGAGTCTGTTTTT
3650 CaTSNP6592 GACTCAGGAGAAGGTTGCATACTATGCGATATCGGAATGTTGATTTGTGAATGCTGTGAG [G/A] GATGGAATGAATTTGATGCCTTATGAGTATACTGTTTGTAGACAAGGAAGTGTGAATTG
3651 CaTSNP6593 TCTCAAGGAGCTGATACAGTGTCTTAGAACTCTCTATCTGCCTCAAGAACTTGTAGTCT [T/C] TCATAAACATGGTCCACCTCCTCTTCTAAACCAACCTTTTTCTTATCCAAATGGCCTTT
3652 CaTSNP6594 AACAACCTGCCAGCACTCTAGTGGCTTAGAGACTATATCGGCTCATACTGGTGGCTTTCAG [G/T] TTATACAGGGTTGCTGCACCAGCAATCTGTGGGTGATGTTGAGGTTTCTCTGGAGGCCG
3653 CaTSNP6595 ATTCTATCGACTATAGTTCCCTTTTTGATCTCGAATATGATGGGCCAAATTTGTTGTACG [A/G] TCTTCTGCCTTGGAGAACCATAGAACCAGCAAATTTTCATTATGTAGAATCCTCTGA
3654 CaTSNP6596 CGTAAAGGACAAGCTAGATATCACAATGGAGTTGCAGTTGGATCATCAACACAGATATC [A/T] ATGTTTGTGATCCCTTCTGCGTGGTTGTTGGATGGTGCATGGGAAAAGAAATGGACTTG
3655 CaTSNP6597 AGAAGCGGCTTATCAGATAATGAAATGAGAGTAATGGTGGAAAGGATTTTATGTCATTA [C/T] GACGAAGTATTTAGGGTGAAGGCGTGACTGCAAAAGCAGACGTGTTTATGTTATAAAT
3656 CaTSNP6599 TACCAATGTTTCACTTTTTCTCTGTTTCTTATTTGCCAGTCCAAAACATGTAAACTA [C/T] AGATTCAATTCACATCAAGGGTGAACATAAAGGGTATCTGGTAGGGCTCTGTAGTCTCTAC

3657 CaTSNP6600 TACGACAACCGGCATCAGCTGGCTGACTGCAGGACCCAACTGCTCAAAGTAAGGGACTGC [T/C] TCTGTTGCTGGTCTGTTGTTGTAAGCAATTACGGCATTAGCCTTGGGTAGTTCCTCAGAA
3658 CaTSNP6601 AAAACTTGTTCAAACATACAGTGTATTTCCTAACCAAATGGAGACAAGTATGTGGTGGT [T/C] CAACCATACAATTCACCTTTTGACACTCAAGCGACTGACTTTGAATGCTGACTGTGTTGTG
3659 CaTSNP6602 CAACTTCTTCGTCTGCGAGGAGTGCAGACAACATTTTTACAAGATGTGTCAAAGTGTTC [G/T] AGTCCTTTCAACAAAGCCCGGATTATGCTCTCTGGTGTGGAATTTCCACAACAAGGTA
3660 CaTSNP6603 AATTCAGATAAGAACAACGGAAATGGATAGGTTAGCTGTTGGTGGAACGGCGTCTCATT [G/A] TTATATAAGGCTGGTCTTACTGACCTGAAGAGGCAAAGCGTTTGAAGACCATCATGCTG
3661 CaTSNP6604 TTTTAAACAGATTGCCTTGAGCTGTGGCAGTGTGTTGCTCGGCCAGGGCAAGTGTGT [G/A] GCTACGGTCTCCGTATTGATTTCTTCAGACAACCTTGATTACATAACATTTTTAGCCTG
3662 CaTSNP6605 AAAAGGATATGGCAGTTTGACATGGGAGATGTACTTATTGATGGAAAACCTACCGGATA [T/C] TGTGCTAATGATTGTTTCAGCAATTGCAGACTCAGGGACGTCTTTGTTGGCAGGTCCAACG
3663 CaTSNP6606 TAAAATTGCACTAAGATTTGACAAAGTGTGGCCAGACGTAGAAGTATGGGTGTCTG [A/C] GCTCCTACCTCTTACTCTGTGGCTACTTTCTCAATCTTCATAAAGCAACAGGCCATCCA
3664 CaTSNP6607 CAAACTTGATCAAAATCATGATGGCAAAATTTGTGGTGTGAAGTTGACAATTTAATCGA [T/C] TATCTCCTTGTCTGGCTTTGGAAGAAATAATAATATAATATATAGGTGATCATATTT
3665 CaTSNP6608 GAACAAGATATTCAGTAATAATAAAGATTTTCACTTTAAAATTTGGAATCTGTTAAGT [G/T] TGTGAGAATTTGGTGTGTTGTGCTGTGTTTGTAGTAGTTCAGTTGTATGGTTGTTACT
3666 CaTSNP6609 CGTGGTAAATGGAGTGCATTTGTTGTTGCAATTCGTTCAAACAGGCGAAATGAAAGTCA [T/G] AAAACATCAGTTGATGAAGCTTCGGATGCTCTAGAAACTTCCTTTGATGGTGAAGTTCCT
3667 CaTSNP6610 AAAGACTGCCCTGGCCAATGAGCGTGAACAGGACATATATTTTCAAGGGATTCCCGAGGC [G/A] GTTCCAGAGAATGAGCAGAGAGGTGGTGGATGTGCATGCTGATATGAAATACTGAATCA
3668 CaTSNP6611 GAGTATGCTTGACATATTAATGGTGGCTTTGCTCTTCTCTAGCAATGGGGCTGCCTTGG [T/C] GTTGGTGTCTATTGCCAAGCTAGGAAACTCACATGTGCGATGGAACAAAGTGTGTAATGTC
3669 CaTSNP6612 TCAGGCATTCGGTGAAGCACCGGCATTCCGCAACGGCAGAGAATGTCCGCTCGCGAAAC [A/G] TCCGTCATCCACATTGCTATGACGCTTGACGCGACCTACCTCCGCGGCTCCGTCGCCGGA
3670 CaTSNP6613 TGAAGAAATGGAATCAAGTTGAGCTCTGGTTCCTAGTCAATTTTAAAAGAAACCTTTAG [A/G] TCGGGTCAGAAATGGCTCCTGGAGGCAGTATTTTCAAAGAAGTCTTGAATCTCATCTCT
3671 CaTSNP6614 GTATGCATACCTTTGAGAGCTTTGGGAAGGCGCCAGAGATAACAAATAACACAGAGTAA [C/T] GCATATGCTAGAATGTCCAGAATGCAGTATGATCCAAGCACTCTGCCAGCGTTCATTA
3672 CaTSNP6615 CAGTCTTAAAATCATCCACTATGGACCCATCTTTGAACTTCAATGCAAAATGTCGAAAGAC [A/C] GTCTTTCCCTTCAGTTGCACAAGCAAAGGTAACCCCTTTCTTCTCCATATTTGTGAGTTT
3673 CaTSNP6616 GTCTGTTCCAGTAGCTTTCCAATACCCAGATCCAGCTACTCTATTGGGTCTAGTCCATT [T/C] GGATACTTCTATCTCTGGACTGAAAAAGTACCATTCTTTCTCACCAAAATATCGCCTTA
3674 CaTSNP6617 TAACATGGGATGCAATGGAGGTCTCATGGACCATGCTTTTGAATTTATAATGAAAAATGG [T/A] GGCATTGATACTGAAGAGGATTACCTTATCGTGTCTCGGATAATACATGTGATTCAAAC
3675 CaTSNP6618 GTACCCTATTCACCTTGCAAGTGTATGAGCTGGAGTTGTCAATCCACCAGAGAGATAATA [A/C] AGAAGATAAGAAGCTGCAGCAGATGCTATTAATTGATCAATCCAATATAGAATTGAACGG
3676 CaTSNP6620 TGGTGTAAATGATTGATTCCAACAAAATCTAATGAACCCCTTAACAAGAGCAGCCTCAGATG [G/A] AGAGAATTTTGGCAGCCTGTTTCTTACTCTGCTTCTCATTGAACTTGATAATCTCCAAA
3677 CaTSNP6621 ATTCAAATCCACCTCTGCTAACGGATCATCGGAAAAATCACTGTCGCTTCCGGAAACATT [G/T] CCGTCGGAATCAGAATCGTCGCTACTGTGCTACTGTGATCATCATCTCCTCTTCTTCT
3678 CaTSNP6622 GCGTAAGATCCCGACGAAAAGGCTTGGTTCGGATACATTGTAGGCAAGATTTCGCAATTC [A/G] AAATATGAAGCTTGTTCCTTGTCTAGCTCCCTTTATTACAATGGAATCAGCTTGACATCTC
3679 CaTSNP6623 ACCTGATGTGTCACCTGTTTGTGTTGGATTAGCAGCAAGTATGGGTGCTTTTCTGCTAAG [T/C] GCAGGGACCAAAGGAAAGAGATACAGCTTGCCAAATTCAGGATAATGATTCACCAACCG
3680 CaTSNP6624 CGGAGATATTCGGTTTATGCAGCTGATCAGTCGAAATCTATGGTTGGTAGCATCTCTTG [C/A] AGATGGAAAGCTTGAAATAGATCCACCTTCAAGTCCATTCAGAGATACAACATCATCAGG
3681 CaTSNP6625 CACGGTTTTGGCGAAGAACCAGTAAACAAGAAGACACGTGGTTTTGTTAGGTCTAATAAAA [C/T] TAGGGTAATCAGGGTTATTACGAAGCCATTAGATCGTTGTTTATCCCAATCGGAGATTT
3682 CaTSNP6626 CTTTTTCTGCGACTGAACCAGCATCTTCAGGACTATCCTTTTTATCACATGGAATGTCAG [C/A] AGGTGTGACGTCAAAAGAAATGACAGCTACAGAGTCTTGATGGAAGTCTCGTGTGCTTC
3683 CaTSNP6627 CCAGCCACAGTATGCTGTGCTGAGCTGAACGAGAAAAACTTCTGGAGGATGTTTGTATGC [G/C] GGGCTATACGAGCATCTAGGAGGAAGTATGGAGCTGTTGGAACCTTCATGAGTGTGTAC
3684 CaTSNP6628 ATATATATAGGTCACAACCTGGTGTTCATAGTAAATTAACCCAATATCATTATAGGA [G/T] GTACATTATTACAATCCAGTGGATCTTTTGGCCATTCCAAATGACATATTCATCCCAAAT
3685 CaTSNP6629 CATCCAAATCTCACATTTGAGAGAAGAATCAACCGTCCGAACACTTAGACGAAGGTTATC [G/A] TTAACACAGGGTTCCTTCTCCACCATTGATAATCTTAGTAGAGACAGAATTTTCAGGA
3686 CaTSNP6630 CAGCTGCTAGAAGGTTGCTTCTGGTTGACACACATTCACAATGCACCTTTGTTCTGTTG [A/T] GTCAGTGTGGGTCATACCAATGTCAGCAAGGCATTATCATTTGGGGCTGTAATCCC

3687 CaTSNP6631 TAGAAGTTGTTCTTCTGTGTTGATTACTTTGAAAAC TAAGCATAAGACCCATCTAAGAA [G/C] TGCTATGATTAGAGCAGCTTCGTATATGGCTTGGCTTATTGTGAAACCAGAGATGGATTC

3688 CaTSNP6632 AGGGCATGTTGCAGGAAAGCCCGGACAAGCTACCCCTGACTGGTCTTCCACCGATAAAGTGC [C/T] GTTCGCTTGGAACAGATGAGTAAAGCGGTTCCGGTGGCTTGTGATTGAACTGCAGCATGGT

3689 CaTSNP6633 ATCTTCTTTTCTGTCTCGGGATCATAATAAACAGCAGCAGCGACACACAAGCTGGCTGT [C/T] TTGCCATCAAAAAATCTCCATACCTCGTGAAGCAATGAATATAGTCGAACATTATGG

3690 CaTSNP6634 CTGTTTATTTGAACAAGGAGAAGCTAAAAAAATGAATTGAAAATTTGGGTTTTGAGAAA [G/C] TACTATGACATGTTATTGTTTGACACAACAGAAATAATAACCGAATTGAAAAGCGAAAAA

3691 CaTSNP6635 GGTAAAGTGTGGGATGAATGTCTGCTTATTGTGCTGCCTGATTGATTTTGCCTCTACTA [A/T] GTAATGCACCTTCTGAATTGTTCCCTCTGGTGACAATTTGAAGGAGTTTTTTTTAGCTAAC

3692 CaTSNP6636 TTTTCCTTGGGATTGTGACTCTCCATGGCGGTGATTCGGTTGAGTTTTTCCGTAGGGC [T/A] CGGAGGCGTTTGTGATTAGACTCATGACGGGACCGTCCGGTGGTTGTTGAAGCCGCCATT

3693 CaTSNP6637 TGGAGCTCCAAATAGATTTTTACCATCTATGTAACCAAGTTGTTCTAGTGAATCTACTAG [A/G] GAAGCCATGTAATCTGTCAAGCTTTAGACGAGGATTGAGATAGCGAAGAGAGTAGGTA

3694 CaTSNP6638 TAATGTTCTTCTCTGCATCCACGTGCCCTTTTGGAAATCTTCCACCGTCTGACATCAA [G/C] ATAGACATGGGTTGTCTGGATAAGAGACTTGGCTGTAACCACATCAACTGTGACAACCTC

3695 CaTSNP6639 TCCGATATTCATCACTATCATCTCCTTTACTTAAGCTTTGAATAAGAATTACCACTGCAA [C/T] CACAAAAACAAAGATGTACACCATTCTAATGTCAAAAGATCTATGGATAAATTCATCAG

3696 CaTSNP6640 TGTTGATAGGGCTCAACCTCAACAAGGATCAGGTAAGGATGATGGTGATCGCTACAGAGA [A/G] CGTGGTCTGATCGTGACAGAGATCATCGTGGTGGTCCGGGATCTAGTGATGGAGGATGC

3697 CaTSNP6641 CATCAGTTCAAATTTACCCGGCTCATCACATTTCAATTGAATAGCCACTTTTAATAACTT [A/C] AGCGAAAAACCACAAGGCCACTTCCCATATCCGCTGGCAATAGACCGACAATGGTCTCC

3698 CaTSNP6642 GAAATCCTGAACCCCTTTGCTGCAAAAACCTTTATCAGAAAGCTCAGATAAAAATAGCATT [G/A] ACAGTAAGCAAAAACACGCTAGAACCAAGATAACACTAAGAACAACACCAGTTGTACCC

3699 CaTSNP6643 GGTTTTGAGCATGAGTAGATTGGGTGGAGCTGGTGCAGTGGCGCCACTGGTAACTGACAT [A/C] CCATTATCGTCAGTCGAGGAAGAAGGAAGTGATAGTGGAAGAAACCAACCAGCTTGGGAG

3700 CaTSNP6644 AAAGAGTCTTCTTTTCAATTTAAGTTATCAGCTCGCTGAGGACTTTGGGCAGAGCTTTCTCC [A/G] AACGAGCTATACTGAAAACGTTTATGGAGGCTGAGTCAAATTTACCAGCTGGTTCATCAA

3701 CaTSNP6645 GGTGTAACCTGTGAGAGCTTCTACAAGAGAGATTTCTGTGTGACGACAAGATCATTTGCC [A/G] TCCCTCTTGAAGACGCTGTGAGGCTTTTCGTCGATAATGAAAACAAGATCTGCTGGTATA

3702 CaTSNP6646 CCTGATACGGACATGGCGGGCAGTTCGGTCTTCTCTTCGGGTAGTGGATTGGCTTCAAC [G/A] AAAAAAGATAAAGATGAATTGGAATTGGGATTGGCGTTGGAATGTTAAAGAAGAAGAG

3703 CaTSNP6647 TCCATTTTGTGCGAATCCGGTAGACTTCACCAAATCAGCAGGGCTAGACTTTGCTCGGAC [G/A] CCATTGTCTCTTTTTCATCGGTTCTATCTTTTCTTTAACCTGTGAAGAAGACCTCTTCCTT

3704 CaTSNP6648 CATCAACTCCTCACAGTTGTCCATGATGAAGACACGACGACATACAGCTTGATGTTGTT [A/G] GGCTTCTTCTTGGTGTCAAAGAGGTCAAAAGGTGCCCTCTTGGGTACAAGAGGACAGCC

3705 CaTSNP6649 CACCATGACCCGACGTTGCTCCCATGTAGCCACAATGGGCACAACCTCACGAACATGTCC [G/C] AACCGCGGTGTTAAGCTATTTCGGAGTCCGATTAACCGACGGGTCGATCCGGAAAAAGTGCT

3706 CaTSNP6650 ACAGTTTATTGCAGTGAAAGAGCTGCTGAAAACAGCTATCAATCGTGCAACATCGCGTAA [T/C] GACCTCTTGACCATTAGAGATGCTCTTGAAGTTTCTTCTGATATGTATAAGAAAGACAGT

3707 CaTSNP6651 TGTTAAAAGAGCTCTTAGTTACCCTCTGAAATTAATAGCAAAGAATGCTGGTGTAAATGG [C/A] AGTGTGTGAGTGAGAAGGTTCTGTCCAGCGACAATACAAGATATGGTTATAATGCTGCC

3708 CaTSNP6652 CGTTTCGTTTCTTCTCACAGTGAGGCTTACTCTGTCTAAATCACTCAGCTTAATCCAAC [G/T] TCACAAAGATGAATCGTGAAGGTTGATGAAGATGGCTGGTTCAGTTCGAACTGGTGGAA

3709 CaTSNP6653 CCATAATTCTGCAAGCTCAGCATAACAATTTCTGATCTGTGGACCTGCATTTTCAATCAA [T/G] CCATCAACAAAAATGTCATAGAGATCACAAATCTTGTCTCCAATGCAGCATCCATACTA

3710 CaTSNP6654 GATGCATTATCCTCAGTATCATTACCCTGGTTATTATCCACCTGTGCCTATGCCCCATCA [A/G] CATCAACATCAACATCATCCACACATGGACCCAGATTGGGTTTCCCGTTACTACCCTCCT

3711 CaTSNP6655 TCAAAGTTGGACTCGCACTAATTCACCTGCCCCGTTAAAACAAAAACTTGGCCGAAAACGC [A/G] GCCCGAGTTTTTTGGCCGACGCCAGAAACATTGAACAAGTTCAGAATTGGGAAGACAAC

3712 CaTSNP6656 ACGTGCATAGAGCACAGAATTTAACAATTTCTCAAACAACAAGAAATATCCCATCCATTC [C/T] GAAATGATTATATCAACTTTAGGAACTGGAAGTTCAGTTCCTCAATCTTCCCTTTCAA

3713 CaTSNP6657 GGGTAGTCCCATGTCGTTGTTGACAGTGTGATTCTTACTTTCCAGCTGACAACATATGG [T/C] GGATGTGTGGCTCCAATTGAAAGAGTTCATCAGAGGAGGATGATGGGAGTATGATGGG

3714 CaTSNP6658 TGATCCAACATACCCTATTGCGTGCAGGATTTGGGCCCTGACCCAACAAGTCACTACACA [C/T] TGCTTCAGCTTCAAGATAGGTCCTTATAGGTGCAATGTAGCCTAGATGATCACCGTATGA

3715 CaTSNP6659 TCTTCACAGGCCACTAGCAGATGCATGTTCTGCAGCTCTTTTCAAACAACAATCTTGCC [C/T] GGACTGATATAAAAATATGGCACCCATATCATTATGTTATCTCCTCCACGGTGACGT

3716 CaTSNP6660 CTTGGCCGAAGAAGACGAAGATTACGAGGATCTTTACAACGATGTTAATGTCGGTGAGGG [T/C] TTCCTTCAATCGTTACACAAAAATGACGATTCAGTAGTTAAAACGACGACGCTGAAGCT

3717 CaTSNP6661 AAGTCTTTTGATTTTGCCTCACCATCTTCAGGTTCTCCTGGATTTTCGTCTTCTCCTTTC [G/A] TTAATCTTCTATTACAATGCAAACCTCAAACCCCTGAATCTTTGGTTATTAGTAATAAAG
3718 CaTSNP6662 AAGGGTTCATGTATTCAAATATAGGTTTAAAAATGCGTTGGATTTTGGGAAGAATGGTTT [G/C] CATTTCGATGAGAGTGAATCCGGGATTTGTCGTCGTTTTCGGGAGGATCCGGATGGTGCGGGT
3719 CaTSNP6663 AGCTGGTAGTGGCAAGTCTACATATTGCTCAAGTTTGTACCAACACTGTGTAACGTACG [G/A] CGATCAATACATGTTGTGAACCTTGATCCTGCTGCTGAAAATTTTACTATCCCAGTTGC
3720 CaTSNP6664 ACGCAATCTCTCTCTCGATCTCTCGATCTCTCTCCCGACCGTGTCAATCTATCTCTCC [T/C] GATCTCTCTCTCTACTGTCTCTTCCGCGACCATATCTCTTGCACCGTCTCTCGCGATCG
3721 CaTSNP6665 AATTAGGTTCCGTTCAATCGGTTTGCATTATGGAAGGCTCTGATGTCAGTAAAACGGCAT [C/T] GTATTCCACAGGAGTCACTATCCAGTTTAAAAATGAGGAGGAGTCCGAGGCATTCATTC
3722 CaTSNP6666 AAATAATTCATCCCTAGCTAGGTTCTTACAAGATTGATGCAAGAGGCAAATCAAGAGGT [A/G] CCTGCTTGGCTCTCGCGGTTTGGTGCACGATCTTCTTTGGTGGAGGGAAGAACCCTCGA
3723 CaTSNP6667 CTACATAGATGCTAGTGTGTACAGGCTTTGAAAGACTTGTATCAGGAGTATAAGTTACG [A/G] GACATTCAGATTGCAATATCAAATCCAAACCCAGAAAATCTGCTTACGTTGTCTAAATCG
3724 CaTSNP6668 AAACCTCTCCCATCCTTACCACCTTAACACTACTTTGCATCACAACTCTCTCTCCTT [C/G] CATCTCTACTTCTTCTCGTTTTCATCACTCCATCACACTTCTCTTCTGTATGTCTCTT
3725 CaTSNP6669 GAAACTGCTGCAACTCTCCGATTGCTGATGTCAGCACTGGGACTGTAACACCAGCATCG [C/G] TCAGAAAATCTTCCGGAGGAAACACTCCCCATTGTTATTGAACAGAAAATTCAGACGGAT
3726 CaTSNP6670 CTTCTGTCAATAATCATAATCATAACATTGAATTCAAAATTCACACTCTCGACCCGCTTT [A/G] TCAAGTGTGTAGCGGGGACGAAATGCCCCACCACAAAACGACCCCTCAATCTTGTGCGGAA
3727 CaTSNP6671 AGTCCTTGAGCTTGATGACGATATTATGATGACATGTGATGATGTTGAGCGAGGTTTCAA [C/T] GTGTGGCGTCAACATCCCGACCGAATTGTTGGATTCTATCCTCGGCTTATTGCTGGTAGC
3728 CaTSNP6672 TCCAATTGCACCCTCTCAAGCCTTAACATATTCTCAACATACATGACAATCTCAGGTTT [C/A] GACATTTTGCAGGATTTTCGGCATTTTCTGGACGACTATTGGAGATAAACGCAAGGGAGCA
3729 CaTSNP6674 AGACCACTACCAAAGATGATAGTTCTGAGCCTCATAATGATAATAAGCTAGCTTCTCCAG [T/C] CAGTGTCCACCTGGTCAAACTACATCTCTTCTCCAACAGCCATGTGGCCCGGATCACA
3730 CaTSNP6675 CTCTTCTTTGGAGGTGTTGTCTGTGCTTGTGTTGTTGGATCTACTACCCTTCTTACTAAC [G/A] TCACTATGACTGCTCAAACCAAAGAAGAGCTTCTTGCTACCCATCTCGAACAAACAAAAGA
3731 CaTSNP6676 AGACATTGATATTTCAATTTTCTTTCTTACTAGTACTGCATGATTAGAATTAGAAGGAGA [A/T] GCACAATTTTCTGAAACAGAATCAGATAATCTTCTCAGAGTGAGATTTGGAGCACACA
3732 CaTSNP6677 TGAGCCAGAGCTTGAAAGAGAAACAGGGGAGAGAAGAAGGGAAGGGATATAGTTATAGC [C/G] ATAGATCATGGTCCCAATAGCAAACATGCTTTTGATTGGGCTCTTATTATCTATGTCAGA
3733 CaTSNP6678 AACAGTTGAAGAATAATTGTCGCGAGATGGGAATCCTAAGGAACCTTGTGCGAGAGTTGA [A/G] GTTCTATTGATTGGGAAGAAAGAATCTTCGTATGATGCTAATGGGAATTCAGCTATCTTA
3734 CaTSNP6679 CCACCGTCTTAGACTGAGCCCTTTCCCGTCTTTCTCTCTCTGGTTACCACGAGTCATG [G/A] TTGTTGATGGATTCTTCTGAAACGGAACGAGATGAGAGTGCACGAAAACCCCTGATTAAG
3735 CaTSNP6680 CATGTTGTAACCCCTAACAGAGTAGGGACCCCAAGAGTAAAAGCATCATAACTTGGGAG [G/A] TCGCTACGCGACCCAGTGTGGCCATGGAGGACAAGCACTGGCGGCGGTGGTTTGCCA
3736 CaTSNP6681 AAGCTCTTTACTACAGAAGTATTATACTCCAAGTATCACCTTTATCTTTTCTTGACCTC [G/C] ACCACCAAAAACGACGGCGTACGGCGTAAATATCCGCCCAATAGCCAATTTCCCTTTC
3737 CaTSNP6682 TCACTGCCACCGGCTCGGTGTCGCACACCGCGACATCAAGCCGGACAACATTTCTCTCGA [C/T] TCCGGTGATAATCTAAAATTAGCCGATTTCCGGTTCAGCCGAATGGTTCGGCGACGGCAGA
3738 CaTSNP6684 TTGCAAAATGGTGGCTTTATTGGGAAGACCAAGAAAACCTATGCTTAAAGACAGTGCAG [G/A] ACGGGAACAATATTCGGTTACAGAAAAGGAGGGTGTGATTTAGCAATTCAGAAGACAGC
3739 CaTSNP6685 GCCACCATTGAGCCAAAATGAAAATGATAACTTTTACGTCTAACTTTGTCTATGGGACGGGC [G/A] TTGAGCTCTCCATACAGTGCAGTCCGAGCAGGTACAATAATCCCATGGGGTATCCTGGT
3740 CaTSNP6686 TTACTATAAAGGTGAAGAAGACAAAACAAAAGCAAATCAAACAAAAGCTACTTCACC [G/C] GCTGAACAAGAACACCGTAGAAAAGTTCTCCGTGAACCTAATTTCTAATATCTGGTAAT
3741 CaTSNP6687 TCTTCGAAGGAGTCAAAAAGAAGATGGCGAAGCAAGAGAAAAGAGGAATACAAGGGAAACGG [C/A] CAAAGAAGAAGAAATGGTTTAACTCCACTTAAGAGTTGATAAGAGAAAGGCTTGCTAAG
3742 CaTSNP6688 TCCAGCAACTTCAATAACCCACCTTTGGAGATTGTCGGTACTTTGTGCTTGAACCAGC [T/C] GGGGATTAACCTTGCCACTCGACGAGTTCTTTCTGGAGTCTATTGCAGGCAATCTTACTC
3743 CaTSNP6689 GGTGAGAAAATCTCAGAAAATGTTGGAAAGTCCATATTATATGGCTCCCGAGGTGCTCAAG [A/C] GGAGCTATGGACCTGAAAATAGATATATGGAGTGCAGGAGTATACTCTATATCTTATTGT
3744 CaTSNP6691 GTAAGAAGAAAGAGCTCCTCATTCTTGTGCGGCTTCAAACGACTGGCTGGATCTGAAC [G/A] TGGGCTGATGAACTCCATATTTCTGTGAAAAGCTTCAAATATAAAAGCCAAAGGTCTAA
3745 CaTSNP6692 TCTTATCCACCAAAGCTTTGAAAACAGTCTCAAATCAAGACATGCATACAGCTTGCA [C/T] GTGGTAGATACGGATGGCTGCAAAATGGGCACCAGAAAATGGATCAGACGGAAAGTGGAG
3746 CaTSNP6693 ACAAGTATGTCAGAAATAACCTTCGATCTGAACACAGTTACAGATGAAAATCCTAACAAC [C/T] TGTTCAACCGTCATGGAGCTGGTGTGCTCCGTACGATGGAATCAACGGTTCAGATCAGA

3747 CaTSNP6694 AAACCTAATTTACACAGTTGCAACCAAGTACCCTGGAAATGCCTTGTCTCATCGTCCAAC [T/G] TTGCTGCAATACGTTGTTTCGTCTAAGGTGAAAACAACGCGCAGTTAGATGCATCACTA
3748 CaTSNP6695 TGATGATATAAGAACATGCTGTTATATGCTTTTTTGGATTGCTATTGTAGTCTGATTTCA [G/A] TTCACCCAACTCATCTTGTATCATTTATTCATGCAATTTAAGTTCCCTTGTTAAAAAAA
3749 CaTSNP6696 CTTCAACTTTTCATCTCACAATTCACGTTTCGTAGTTTCGATCAGATTTCGTCTTGCCTTTTC [A/G] AACAGGAAATGAAATCTGCTGGAGATCCGAATGATCGGTTTGTAAATCTTCCGATCGGC
3750 CaTSNP6697 AGTGTGTGTTCCGTTACATCAATTAATGAAAATGGTACTGAGAACCAGTTTACAAATTTG [A/T] GCCTGGACGCGTCTGAGGCTGAAAGTTTGAAGAGCGAGTTCAAATTTGGCAGTGGTGATG
3751 CaTSNP6698 ACCAAAAAGAGCATTCATGTCTAGCACGTTTCTTAGCATGTTGAAAGGTGGTGGAGGATC [T/C] TCATCGCCGGTCTCTTTGGATGATCCGAAAATATCAAAGGTGACAGAAGAGACCAATAA
3752 CaTSNP6699 CCCACACTTTACATCTTCTTTTTTTCATACCAGGCATGTCAAACCTCATCTTGTATTCAA [C/T] TTCTCCTTCTTTAATCTCCCATGGTGTCTTCCCTCCTTCGATATCCACCTGCCTCCTC
3753 CaTSNP6700 CAATGCCAGGCGGAGCCACCGTCTGCTCCGGTACCGGTTACACTGTTTTCTCTTCTCC [A/G] CCATTCAACTCGTCCACAACACCAATCCAACCTAGTCTCGACTCGTTTCGATTCAAAC
3754 CaTSNP6701 GAGATCTGCTCTTATGACAACGGCTTATACGGCTTACAAAAACGGTCTAAAAATTGCAGGA [C/T] AGTGTACTGGAAAATATTGACGCGGTTTGTATCATGGATCTGGACACGTGGACCTGTT
3755 CaTSNP6702 GGAATTGTCAATGTTGGGGGAAGAGGAGGAGTTCGCTGTTCCGGATCTCGGAGAGTTGCC [A/G] GAGTGTCTCGCGGTTTCTGGAGAGGGAGGAGGATTTGCCGGCAAGTGAAGTGGGA
3756 CaTSNP6703 CAGGATTTATTTCTGACCTCCCTTGAGTGTGAGCAACTCTGGTCCATTCTGAGGCAATTG [C/A] TTGATCAAAACAGGCTGTAACCTGTCCCGGAGGCAGATCTGTGGCAGTTAATCCCTG
3757 CaTSNP6704 GGTGTGTTTTGAAGAATTGGGTGGAGACCTAATGGGATCTCTTTGGTCAAGAGGATAT [T/A] GATAGTGTATGTGCTGATATTTATGAGTGGCAGCCAAATCTTATAAGTTATCAGATGCAA
3758 CaTSNP6705 AGAAGGAGTGATTGTTTGTGGATTTGGTCTCTGCTCTCTCTCGAGACCTAAGAAGAA [T/G] GAGGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGGGCGAGTTTATTTTTGTGATTGGT
3759 CaTSNP6706 TTCTACTTTCTTTTTACCCGGACAATTTGTATGAGTACATTTGTAGTAACCTCGCGGATA [T/C] TCGCTACCCCTTCACTTGCTTTTGACCGTATTTTCTCCAGTTATACCCGCTTCAGATGGA
3760 CaTSNP6707 TATCGAAAGCCTAACAACTTTTATCTTGGAGAGCTTATTTGGGGACCACCAGTGACCTT [G/A] GCGACGCGAAGGAGCGAAAGTTCTGCTTTTCAATTTGATTCAGAAGGTTCTGCT
3761 CaTSNP6708 AGTCACCTCTTTCTCTCTTCAACATTCCTTGTATTTGCTTCTTGTGAGAACTCAAG [A/G] CGAGTCTTAATTTGTTCTGAGATAACCCAAATGCAAGAAAACCAACCCATGCAAGACCA
3762 CaTSNP6709 TCCAATATCAGACTGATGCTGAGGTGGTTAGATCTTCCGAAGTGGAGAATAATAGACCAC [A/G] TGGATTTATTAATGGCAATATTCCTTACAATAGGATGAATACAGTAGGTGAAAAGGAGCA
3763 CaTSNP6710 CAAAGAAATCAAACAATATGTGTTAAACAAATAAAAAGCTACTGCAACATTAGCTTTTCT [T/A] AACACAAGATTAGGAATTACACCATCTCTATAGTAGCAGCATTTCATCAAGGGGGCCT
3764 CaTSNP6711 GATGTCCAACATATTCCAGATATTGACGCAAGGGATGCCTTTGTAATCTGCAACAGAAT [G/A] ATTATGAAAATCATTGGAATCCGCCTTGCCCTTAGGATGACCAGAGTTTCCAGATATAAT
3765 CaTSNP6712 CCAAAAAGCAACAAAATATATCATCACATAGAACAGTAGCATAATTGATATCAATTTGT [C/T] TCAAACCAAAAACAAAACATAGACAAAACCTGTAAGTTCAATTTCCAGCAGATTTCTTAC
3766 CaTSNP6713 TTCTGGGGTGACTATGAGTACATCGATGTGAATTATGGTGGAAATAGATACATTGTTG [A/G] AACATCCCTTATGTGAGAATTCGAAATAGCTCGTCCCACAAATCAATACACCTCTTTACT
3767 CaTSNP6714 AATTGGATCACGCTCCTGTCTCACACCAGAAATTTTCATCACGTGTTCCGGTATGTGCTGCC [G/A] GGATCAGACATGGAGTGACCATGGTATCTGTAAGTGTCCATTTCCGAGAATAAGGGGCCCA
3768 CaTSNP6715 CAGCCTGACTCCCTTTTTCTATCATCTGGGGCTAAAGATGCTGGAATCTGGCCAGTCCG [A/C] CAACGTCATTGAGTGTAGCATGTTTGTGGGGCCACGTGAGTGAAGGAAACAATCAGG
3769 CaTSNP6716 GATCCAGAAGGTGCTTGTAAATGAGATGATGTCAGAAATTTGGCAGCCATATCTTCTTCCAG [A/C] GATCAAAGAAACAATCCAAGATGAAGCAACAAATGGTGGAAAACAGGTGAGAACGAAAC
3770 CaTSNP6717 ACATCGTCTGGTCTGACTGGACGCGCAGGAAAGCTAGGTTCTGCCATTCTGATGTACAC [A/C] GGTAGCCAGAGAAGAACAGTTAGATCCCTTGAGCGTGATGTAGGATGCAAAATTTGAATTT
3771 CaTSNP6718 CCGTAAAACGAAAGGCGTTTCACGAGGGTTTTGAAATCGCTTCACGAAGGAACATGATCAAC [C/T] TGATTGACGGCATCATCGGAAACCTTATCGCCACTGGTGGAAAGAAAGACGAAGGAGGA
3772 CaTSNP6719 AAAGCTGGTCTTTCATCTTCCACGCTCCCATGAAAAGCCATATATAATTTTTCCAG [A/C] AATGAGCAATAAAACACAGTGGACAGTAAGAATACAACAACAAAATGCTTCCAAAATAG
3773 CaTSNP6720 AAACCTGTGTCTCCAGCACAGAAGGATCATTTGTCAGGAGTGGCAGGAGATCCAATTTAC [G/A] ATCAGAGCCTTAAATTTTCAATTTTCAACATATCTGAAAACATCATTGAGAACAAGTA
3774 CaTSNP6721 TTCTCTGCTCGTCAGAAGTCCACTGGTAGATAGCTCGTGTATATAGTTTTCAACAA [T/C] TTGTCCATGCTTCTTTACGCTCTTTACCAATATCCAACAACACTGACTTTAGTGGCACTA
3775 CaTSNP6722 GTGGAAGTATGATACAAACTCAGAAGGATATGATTTGCAGAGCACCTCTACGGGAGTTGA [A/C] ACCTTCGCTCCTAATTTTGTTCATATTTTGTTTTTTTCGTTCCAGCCTTTAGTCCCTGC
3776 CaTSNP6723 TGCTCCACAAAGTTCTGATTGGAATGGATATAAGGCACCTGTCTACTTATCTGAGAGGAT [T/C] GTGCATCCATCTTCTACATATGTATGAACAAGCAACAATTTGAAAACAAATGTCTACATG

3777 CaTSNP6724 GCCACCACCATAGCTGCTTGGGGCACCATAGCTTCCACCCTGTTATTATCATTACGTCC [A/G] TATGTACTACCACCATAACCACCACCGCCAAAGCCACCACCCCATAGCCACCTCCACCT
3778 CaTSNP6725 AGCAAGTTAAACGAGGTTACAATAGAATAGTGAAAAAACAAATTTGCTTCCATAATGAAT [C/A] CGCATAAACACAGAAAAGAAAGGCCAAATAAAATTGCTTATGATTATCCCAACTCTTCTT
3779 CaTSNP6726 GCAGCCGGTGATGCGTCCACCCGTAACCAAGGATACTACGCTGTGCAACGAATGCCATC [C/T] GATTCTTACCGTGAAACGCAGGTTTACGGGGCGCACCTCCTTCTAAAGCGCCGTTTTTCG
3780 CaTSNP6727 GGTGTGCGCTAGTAAACCAGATTGGTGGCCTTCTGATTGGCTTCAAGATCTTCAACAGCA [C/A] ACTGCTTTTGCATAGGATGTTTGTATGTTATTCAAAGATAAGTATCTTTGAATAATTTGG
3781 CaTSNP6728 AATCTTTTTTTTTTCGTCGTAATCATGATTATAAAAATATAAAATGGCAGTCATCAAAA [G/T] ATATCTTACGTCCAAACAAAATCCATTTGCATCAACACTACCGCCTCAAGCTCTCCACA
3782 CaTSNP6729 TCCCACAAACAGGATCTACCTGAACCCATTTCCCCCAAATCGATCACTTCGATCGTAT [A/C] CCCGATTCTCTTCTCCTTCTCGTTTTCAACAAGATCGCTGATGTTAAAGCCCTAGGTGCA
3783 CaTSNP6730 TCTTTCCTTCACCGACTTGTATTGTTCTTTACCCGTTTCCCTTTTTAGATTGTGTGTCTC [G/A] CTGTCTTCCATCCAAGCAACACTATACAAATCCCAAGGCAAGTATGAACTCAGGAGGT
3784 CaTSNP6731 ATCTGTAGCTCAGATCAGCAAACACTCAGGGTAGGACAGGTCTATGCAGCATCAGTAATGTA [T/C] GGCTACTTTCTTAAGCGTGTGTCCAACGGTTTTACAGTGGAGAAGACAATGAAAAATTCTA
3785 CaTSNP6732 AAGCATAATATGCCTAATTTCTACAATATCAGGATGACGTAGCAAGCGCAAGAGCTTGAT [C/T] TCTCTTAGTATCCGTGTGGCATCTGATACATGCTCAAAAACATCATTAAATTTCTTGATT
3786 CaTSNP6733 GTTTGATTAAATCCTCCTGATCAACCCCAACACAGCATCTCTGGACAATTCGCCGTGAC [C/T] GTTTCATCTGAAAGGTTCTCAATCTGTATAAACAGTTAAACAAGTGTACTTCTTCTCTA
3787 CaTSNP6734 GGAGAAACATATGGGAGCCTCTTTTGAAGAACGCTCTCAGCCTGGGTTACAAATATCAC [T/C] GTTGATGACATCCACTCTGGAGATTTCTTGCATATCAAAAATTCGAGGTGCGTGGGGT
3788 CaTSNP6735 TCTTAGCTCCTTGGTGTGATGAGAAGGAGGTGGAATTAGATGTCAAAGAAAGGACAAAGA [G/A] TGAGATGGGAGCAGCGAAGGCTCTATGTAGTCCCCTTGATCAGCCAGAGATCCTAGAAGG
3789 CaTSNP6736 TAGATTGAGTGGGAAGCTTGGTGGATTGATCTTGATATGAGAGTGGTTTCACTCTTGTTTAT [G/A] GATGATGCAGATTTGGTTAGAAGGAAAGAGCAGAAGCAGAAGCAGAAGCAGTAGTCATG
3790 CaTSNP6737 TTGGCAGCCAAAATTATCAATTTGGTGGGTTCCAAAAGTAAAATTAACATAATGTATACT [G/C] GTCCCATCACATTTTCACTCATTCTTTGTGTGCGGCATATCAAGACTGTTTTGCATGGTGG
3791 CaTSNP6738 AAAGTGGTCTGGAGTGGAGGGTGACTACAATGTATGGCTATTGACCTTCTTGGACCAAG [C/T] CTTGAAGACTTGTAACTATTGCAGTAGAAAATTTCTCTCTGAAAACAGTGTGATGCTT
3792 CaTSNP6739 GGGAGAGAAAAGCAATGGTCTGGCAGAACTCATGGCCTATAGTACTCGAACTATTGGTGT [G/T] ATGGTGTGTTTCAATGGTGTGACAAGGGATTGGTGTGCTCCTTAAAGTAGCATCAGTT
3793 CaTSNP6740 TGTCATTGAGTCCATCATTGTCATGTAACGCTTAATTTTTGCCTGGCTTTCCTTCTCACG [A/G] CCTTTTGGCATTAATTCATTGTCTAAATCCTGGTAGCATAGAAAAACCTGGCCAAATGGGA
3794 CaTSNP6741 AGGATACGACAATGTTCCCTCCGAAATCAACAAGTTGAGATGTAGGGTCAATTATCACGC [A/T] CTGAAATTTCTTCTGATATAGAGCAGATGGCTGATTTACTAGCATCAAGAATGAGAAAC
3795 CaTSNP6742 AAACCACTCTGGTAAATGGATATCTTGGTAAACAATGCTGGAATGTAGGAGCACAAGT [G/A] AATGGTGAGGCTTTGGCTGCACTTGGTGTGTGGTAGATCCTAGTCAAATGACTGGAAA
3796 CaTSNP6743 AAGGATTAGCAGTGAAGTTTGAAGGAATCACAGCTGAAAAGTTCAATGAAAATAGTGA [A/G] TTGTGGAAGAAGAGAGTTGCATACTACAAGACCCCTGATTATCAGCTAGCAGAGCGTGGG
3797 CaTSNP6744 AACAGATGACACAACCTTTTGTGGATACCCAAATCCATATTAGCGGAAACAACAACATC [G/C] GAAAAGACATGTTTGGAAACAGCTGAGCTAAAAAAGGTAACAGCTTACGTACCTAATACA
3798 CaTSNP6745 AACGAGGGTTCAGATCTTCGATTAACGAAACTGGGTACCAATGATCCCTCCATGAAAAC [C/T] CGAAGACGAACTCTCATCCAAATTCATCATCAATTTGTTCCCTTTCAGCTTCTGGGTA
3799 CaTSNP6747 CTTGATAGTTGACCTCAAATTACCTTATCTAGTGGCTTTGCAACAGCAGTTCTCATCAA [T/C] GGATTCCATACACAGGATAACAATAATGGCCAAAGCAAGTGCACGGGTTTCATGAAGTAT
3800 CaTSNP6748 AGGAGTCTCTTCTCTGCTTCTGAAAGCATATAGTGATTCCAGTTTGTATATATAT [A/G] TGGGTGTATACATATATGAAGATGCAAACGTTTCTTTTAAATGATCAATAATACATTGCA
3801 CaTSNP6749 CATCTGGAACCACACCTTCTCCACCATCTCCTACCCACCTACCAACGGTGGTTACCAC [T/C] TCCGTCGTCTCCAACCTCAGCCTGATGCGACTCCTCCATCAGAGGGCTCAGCCACCACCT
3802 CaTSNP6750 TGATCCTTTACTTATCCTTGAGAGATACCTATGGCAGGGAAGCATAATTTGCCATTGC [T/G] CAACATAAGCATCACCGTAGTATATACGAGGAGGCTGATGCAACAAGAGGCGAAAGCGA
3803 CaTSNP6752 AACTTTTATATTTGAACGTGACATGAGTGTGGTCTTTAGGCTTCGATTCTAGGCTTCT [G/A] GCTTGTGTTTACTCTGGTATAGTGTGTTCTGGAATGGCATACTATATACAAGGAGTTGTG
3804 CaTSNP6753 ATCTGATGGTGTGTTTTACCTGCATCTTTGCCATTGCCCTCCCCACCTCCCATGCCCTC [A/G] AAGCCTGCTGCTGCAGTGCCTACATCATTACCACCACCTCCATTGCCGCTCCACCTCCT
3805 CaTSNP6754 AAAGATTTCCAGCAATGCCGAGGCACTGGTATAACAAAGTAGAAGTACAAGGTTGCTCT [C/T] GGATAGAGGAATATGTCAAGCAGCATAATTGCATTACAGCTCCACTTGGCCCAATGCT
3806 CaTSNP6755 AAAGTGAACGAGACAAAAGCTATGGTGAATTTAGCTTAAAGAGGTGCTCTGCATGGG [A/T] GTTCCGCTGGGCAACATTAGCATGGATGAAAAGCAAATTTTTTCAAGTGTCAACTTAGT

3807 CaTSNP6756 GAGAACTATTCTTAGTGACCATATAGAACAACGGTTGTTTAAAGCGGCTAAAGCACGAAAG [G/A] CAAGAGAGAGCAAGGTTTCATGGGAAAAGCTATGATGAGGTGCCTGGAGCTGATTCTCTT
3808 CaTSNP6757 GCGGCGGTGGAAGCTGCAGGAAGAAGAACGACGCCGTGGAGAGAGCGGTTTTACGGCGCT [G/T] GTATGAGGCCGTGCAGTTGAGTCAGTTCCGCGATTTTTCAGGCAGAGTGCCTGCTGGCGA
3809 CaTSNP6758 TGTCTCTGTTGGTGTAAACATCTCTGGTGGACATGTCAATCCTGCTGTTACATTTGGTGC [A/C] TTCATTGGTGGCCACATTACTTATTAGAGGCCTTTTGTATTGGATTGCTCAGTTGCTT
3810 CaTSNP6759 CTCAAGGACATGCCTGCAGTGGCTTAAAGAAGAGAAGAAAATCACAACCTTGGAGCTGAAT [T/C] TGTTGGTCTTTTCAGATGCATTGCTCCGCTGATATATTATCATGCTATTCATATAGTTT
3811 CaTSNP6760 AAAC TTGGAGCGCTGATGTTGCTATTGCCTCATCGGTCTCCAAAATTTTGCATCCACA [A/C] TGACATATCCCCATGAGGTTGTACGATCCAGATTGCAAGAACAAGGGCATCACTCAGAGA
3812 CaTSNP6761 TGTTGTTTGCTATGTTTTGCTTTCACCTATTTCCTCTTACAGGCTATTTAGCAAGTATGA [T/C] GCACCAGCACCCTCAACAAACCAACAAGGACATTGACAATGTTGCTGCTTTCATGTT
3813 CaTSNP6762 ATTTCCATCGAATTTTCGTGGATGGAAGATCCGTGTTAATCCAATTATCCTTCAAAAACC [T/C] GCACTCCACAGAACACTCCCTGCTTTAGGCTGTGGCGATTTTCTCGGTTTCCAAACACAT
3814 CaTSNP6763 AGTCTTAAACCAAGACCAATAGATTTCCAGAAGCGGTTTCCACCTTTTCCAGGCTCTT [T/A] CCCTTCCCAGATTTCTTAGAGCATAGAAAACACTTTAGGTTGCTTCAGAAAAGCCTTCTCA
3815 CaTSNP6764 AAGGATTGTGATTGGATTGTATGGTGACGATGTCCCCAAACTGTAGAGAACTCCGTGC [T/C] CTTTGCACCGGAGAGAAGGGCTTTGGATACAAGGCCTCCTCCTCCATCGTGTCAAC
3816 CaTSNP6765 CCCATTCCATCTACCAAGTAGATCCCGGCTTTGCATACCCGCGCTGGTCAACCATCTC [C/T] TCCGCTGTTTTAGACTTTTCATCCGTCAAAGGAGAGCATAGACGCAGCTATTAGTGATGC
3817 CaTSNP6767 AGATGAAGAATTATCAAACCTCGATTTGGAAGGGGCATTTTGGGATTTGGCTTGATCTT [A/T] ACCGTAGCGCTTTTGGTCTCTGTTGTAGCCATATATAATAACACGACAATTTCGATTGATT
3818 CaTSNP6768 TCTGATAAGGAAACATAAAAAACATATGGTTGTCACATAGCCAACCTCTTGCAGCTTCTT [A/G] CGTCGCCCTTTGGATTCCACAGGAAAGCGTTGCGAGCATCAAGAATAGTCTTCCACCATAG
3819 CaTSNP6769 AAATGCCGGTACTCAAGCTCCAATATTGGTATATCCTAATGACATAGATGGTGTACAAA [G/T] ATATCTTTACCAACTTTTGTCTATGGCATCCTATAAGTTAAAGAGATCTATTTGGATGCAA
3820 CaTSNP6770 AATCAACAAGTTGACTAACCCCTTCTCTGGTTTTAGATTCTAAATCCATCGAAGACACTAA [G/C] GCCGTTGTTTACGAGCTCCGTGTGTTAGCGAAAACAGATTCTGAGAGCCGAGCCTGTATA
3821 CaTSNP6771 ACCCCTTGTCATTTGGCTTAATGGAGGTCCAGGCTGTTTCATCAGTGGCATAATGGAGCATC [C/T] GAAGAGATTGGCCATTTAGATTGAACAAAACAGCTTCTGGGCTATACATTAACAAGTTT
3822 CaTSNP6772 TTTTAGAATTTTCTGGATGGATTTTCTCACTTTTCCGGCGCCGACGATCGATTCCGCTG [C/T] GTTTCCCGGTAAGTTGAGATCAGTATGCGACTCCAACCTGTTTCAAACGAGTGATTGTT
3823 CaTSNP6773 GGTCCCTTTTCCCTGTGCAAAGAGCTCGGAAGTTTCTGCAGTTTTTGGAACTGTCTT [G/C] CCATAAAGACCTATTACAACACGACCTGCAGCCTTTCCATCAATCTCAACATCAAAGTAA
3824 CaTSNP6774 AGCGCTCCTGCTCCTAGAAATGTTGCCCCCCACCACATGCTCCCAATGGGTCTGCACC [G/A] TCTGTGTTAAAAGCCGTATATGCAACAAGTTTAAATACTGCAGAAGGCTGCAAAATTTGGC
3825 CaTSNP6775 GGAAAATAAATTGCAGTACAAAGAATACTGAGCATTATAATGAGAAAGGTTTTCTATACA [T/C] ATCGAAAGGTTGCGACGCTGTTAACTGTGGTCTGTCTCAGCCACCAGCGCTAAGACT
3826 CaTSNP6776 GCTATGTCATCCTCTGTAGGTTCTCTGCTAGCTCCTTCTGTAATCTTCTTTCACCTGA [T/A] GGAGTGCCTTCATTGGTTGCATCAACTTGAACAAAATGCATGCTCTGAAGAATGAAGAA
3827 CaTSNP6777 GTGGGATCCGAACCTCAGACATCAAATCTGGTCTTCCGGCAGAGTCTTCAGGGTTGGAGA [T/C] CAAATCTGGTTGGGCTACTCTGCAGCAGAGGGATTAGTTGCGGAGCTTGAAGCAGAGAA
3828 CaTSNP6778 AGGCTTATCATGCTCTTCATAAGAAATCTCTTGGAGGAAGATGTTGCTCATCACACAACCG [C/G] TGACTTCCGTAAGCTCCTATTACCTCTGGTTAGTTCATATCGATATGAGGGAGATGAAGT
3829 CaTSNP6779 TGAATTGAGACCGTAAACGGAGCTCGACGAAGCCCAAACGATGGCGGGTTGAGGGTTTGC [C/T] GACTTACAAGCTTCTAGAAGATTACGAAACCAGCGACGTTGCTGTGAACGTAGGAGCCA
3830 CaTSNP6780 GCGCAATCTAACAATCCATGGGAGCCTGCTGATCTGGCAGATGCCCTTTGCAAATTAAC [G/A] CCAAAGGCTTCTCCGAAATCATCGTGAAGAACCAAAACCTCCACCCGATGCTTTTGAAGA
3831 CaTSNP6781 TAATAAATGGTCTAGGATAACTCCCTTTGGAGAGCCTCCGACCCAAAGGGCTGCACATGT [A/G] GCCACTGCTGTGGGAACGATGGTAGTTATTCAGGGCGGCATTGGTCTGCTGGTTTGTCA
3832 CaTSNP6782 AGGCTTGTACGCTGGATTGTCTCCAACCTCTGTTGAGATTATACCTTATGCAGGACTACA [G/A] TTTGGAACCTATGATACATTTAAGCGTTGGGCCTGGCGTGAACCATAGTAGAAATTTT
3833 CaTSNP6783 AAGTCTTCTTCCATCTATAGAGGTGGATTGATGTTTCCATGCAGGTCCAATAAGCCATGA [C/T] GCAGCAATTCACCAATCAAACCTCCTAAGTGTCCCAGTTGTCAATGCCATTTGATGAT
3834 CaTSNP6784 AGCTGCACTGAATGTGATTGAGTAGAATGAACCTTTATTTAATTTCACTTTTGTTTAAT [G/A] TAAGCTTCATTACCAAGCCTAACAGCATATGCACCTTCTGGTACAATTTAAAGCATGTCA
3835 CaTSNP6785 AGCCGTTAATGCATTTTTTAAATGTAATATTTGCTAGGAAAGAGAAGTGTCTGTAGGTGG [G/A] ACCACCCTGATAACACGGGACCTACTAGCTGAAAAGAACCATGATAAGTAATGAAGA
3836 CaTSNP6786 GTTTTTGAGAACACGGCTTTTTTATCCGCCGGAAGTGTGTAACGAAACGGAGGGAGG [T/C] AGATCGGCGAAAGCGTCATCGACGGGAATAAACATCGTGATTCCGGCGCCGCTTCCACC

3837 CaTSNP6787 GGCAATGACTTCTGTGTCACCAATTCTGACTTTTGTGTAACCATTTCCTGAGGAATGAC [T/G] CCAGTTTGAACATAGATAGGTCGATAACTCAATCTTTTTCTACCATCACAGCGAAGATCT

3838 CaTSNP6788 GGAATATACAACAGTAGCTGCTAAAAGCTTAAACCCATCATCAGCCTCCAGAATCCAGAT [C/T] CATATTATTGGAGGTACATTTTTGTGGCAAGATGGGTTTTGTAACAGATAAAATCAAGGAG

3839 CaTSNP6789 CATGTTTGAATTAAAAGCAAAATCACAGGAACCATCTTGATAACATAATTATGGTGTAC [G/C] GTGATTTCAAACATACACTTAGATCTAAGATATCAACTGATTACAGCGAATTGAGCACC

3840 CaTSNP6790 GGCAGACGAAGATCAAGTTAAAAATCTTGTCCAATCAACCGTCAAAACTTATGGACAGGT [G/A] GATATTATGTTAGCAATGCTGGGATATTAAGCCACACTAAACAGACCATAATGGAACTC

3841 CaTSNP6791 AAAGCCTCCTATAAAGATGCCATTTGAAAAGTGGAGAATTGTAACCAAGTTATAAAAAAT [C/T] GGAAAGGACCTTAACTTTTCCTTAGTGAATGTTGCTGGTAACGATATTGTACAAGGGAAT

3842 CaTSNP6792 AATATGGGGATGCAAGGATTGTGGCAAAGTGAAGCAGGAGGAGCATACACTTTGAACAC [C/T] GCAAGTGCCGTGACTGTACGGAGCACCATCAGGAGGTTGAGGGAACTGAAAGTTAA

3843 CaTSNP6794 TTGTTGAGGTTATATGGTGTGCACTCATGACCCTTTCCCTGCGCTTCTCCAAAAATCGA [G/A] CCAGTGATGCTTTGCGAGCCTGTGGTATAGCTGATGGAAACATGGTGGTTGCATTGACTA

3844 CaTSNP6795 AACCTTAGCCGTAACCTCCTTCTCGGCTTCGCGCTTCAGATAGTTTATACGAAGCCTT [T/G] ATCTTCACCAGCTTCCCTTTCGCGCTTGATTCTTAAGCTGCAAACTCAGCATCTTCTTG

3845 CaTSNP6797 AGCATGAGGTCCCCAACCATCAATGTCATATGGAGGTGGAAGAATTGTAAGTAGCAAAA [C/G] GAAGATATTACCGTCCCTATAAGACCTCCAGCAAAACACATCTTGCCAATGGTGCCAATAA

3846 CaTSNP6798 TTTGACATGTGAGACCAAACTCGCATTTGTTTTCCGACCTGCAAGTTTCTCCGATCTTGG [A/C] GCTGGACGAATAGGCGAAGAGACAAATAGCAATTAACACGACGAATTGCGTTTGCAAAT

3847 CaTSNP6799 TCTTCTCTTTAAAGAGGTGCTCTTCTGAGGTTGCTGCATGACAGGCATTGAACCAGGAGC [A/G] ACAGGATCATTCATGTAATTTTGAAAATAAAGATCTTACGCAATTTGGATGTTAGTTCC

3848 CaTSNP6800 GAGTTACTCTGAATGTTACCTGGGTATCAAGAATATAACCGTGAGGTAGTGACAGCGA [C/T] GATGAAGCCGACTTATCCAAAATGGATATGGGAGGAAGGGCAAGGGCCGTCTTCATAGA

3849 CaTSNP6801 GGTAAAATAGTTTAGGATCAAGAGACTAGTACCTAGTTAGAGGCTAGAGCAGAACATTCA [C/T] AGGTTCTGGTAAAGAAACAGTTGTGACAGTAAAAAGATGAAAATACTGAAACAAACAAAG

3850 CaTSNP6802 CACTCTTAGTGTCTTAACACCTCAGACCCAAAAGATTACATAAAAAGTGTGTCAAAAA [T/C] ACAATGGATAATGTGATCAAAAGCATTTAACATGAGCGACAGACTCACAGTTGAAAATAGC

3851 CaTSNP6803 TAGACAAGAGCTTGAGATATTAGTGTCTGGCACTAGAAAAGTGGCTGAATCACTTGA [A/G] TTACCGTGAAGTACTACTCCCTTGATGTCAGAAAATCTTTCCATACTACAGCAAGCTT

3852 CaTSNP6804 AACACCATCTTTGCCACCACTGGCAGAGAGAACCATCAGGTGAAACAGCAACAGTGT [G/A] ACATAGCCAGAATGGCCAGCGAGTGTGTTTCTCAGCTTGCAATTAGTCAGATTCCAAACC

3853 CaTSNP6805 TATAGCAGCTACTCCTTCACATCCTGAACTTAGAGCAATCTTTGCTGGCTGTGAAATATC [G/A] GTAATGTTGGGTGTATCTTTGGCCAAAACAGGAAGTGTAGCTTTTGCATTTATCCATCCA

3854 CaTSNP6806 AATACCCGACTTAGAATAGACGGCGGTGTGGGGTTGCACTTGCGAACCATAAACAGC [A/T] ATAAAAGCTCCACTGGACTTACTAGGTAACAAAGGATGCCATCATCATGGCAAAGGCT

3855 CaTSNP6807 ATATGGAAGTAAGATGGAAGGAGGTGGTGTACATGGAGGAGGCGCTCATGGCGCAATC [A/G] CATGGAGGAGGAGCAGTCATACCTATTTATGCAGCCGGTGTGCAAAATAAAAATCACCAG

3856 CaTSNP6808 TGCCGCTGCTAATGCAATCATCGATGCTCTGTACTCATCTCTCAACTTTTCGTCGCG [T/C] GCGGATTATAGCTCTGTATTCGCGCTATTCATCGCCGAGACTCCATTGGATCCCTGTT

3857 CaTSNP6809 TTTAGTCTTGACTGGGCTAAGGCCAAAAGGACCTTAAAAATTTGAGGATCAAAACTAG [C/T] CCAACCAACCAAGAGTACAAGATCACGGGATTAAGTGAACAACCTTGCAAAGACCAGCTG

3858 CaTSNP6810 AGAGTCAAAAAGCTTACTGCTTACCATGAGAGCGCCATGCAATGTTGCCCTTAACAC [C/T] GACGGTGCACATCCAATTCACAAGCAACAATCATGCCACGTGGATCTGCTTTAGGAATG

3859 CaTSNP6811 TGATGAAATCCTTGAAGAAGAAGTGAAGAAAGTTGAAGCAGCAGCTTTTCATAGCCATAAT [T/C] AAACAAATTTGTGACAATAGCAATTAGATGAAAGAAGAAGAAGAAGAAAATGTGAGAA

3860 CaTSNP6812 AACTATTGAGGAAGGAGAGCAAGGACGATTGCCTGTGTTGATTTTGTGCTTGAAGGAAAG [C/T] CATAAGCAGAAAAGAAGGCTGCAGTTGTTTTCTTTCACAGTACAACAAGTATAAAGAA

3861 CaTSNP6813 TTGGATGGTTAGTACCAACTTCATTCCTGTATCGATATCCTCTTTGGTTGCAACATGGG [C/T] ATACAGAGCATAAAATGCTTCATTTATCATAGGCATAAGGATTTGTTCACTATGAAGCC

3862 CaTSNP6814 GTCACCGATGATGATGATTTGAAGAGGTACGCGTAAGACATTGTTTTGCTCAGAGAG [A/G] GAACGATGAGGATGAAGAAGAGGAGAAAAATAAAATGGAAAGAAAAGGAAAGGAA

3863 CaTSNP6815 AAAAGTCAGGTATATTGGGTATCTGAAGCTAGCCAGATACTATAAGGAGAGCGCATGC [C/T] GTTTCATCCAATCACAGCTGTACAAATAGAGTGGTCTCTCTGGACTCGTGACATTGAGGAA

3864 CaTSNP6816 TACATACCCGCACTTTCAGATATTATTCTCTCATAGAATTGGTATGGAGAAATATCTCA [G/A] TTTAATTATAGTAAAATGGATATCCATAGATAAAATTACCTCTATCAGATTACCTGGAA

3865 CaTSNP6817 ACACAATAGGAACGTCCTTAGTTGGCTTAAGGCAATTTTCACTGAAACTCAGGAGTATAC [A/G] GGCTTCTCGGTCCAATACATATATGGCATGGAATGGATGACAAAGTGGTTCCCTTCA

3866 CaTSNP6818 TACAACCTGAGTGAGTTCTCCGCGACCACTGCCGAACAACAAGCTTGGGAGCACAACG [T/C] TGAGGATCATTTATATCTCTCTCAAGGCTTACCAGTGTGCTCTTGGCTCAGGTTCT

3867 CaTSNP6819 GAAGTGTGTTTCTAAATAGATTTGTAATTCGTGACACTGTTGTCTGTATTAATTCATCC [A/C] AAGATTGGAACAACCTTGTAATATATTTGCGGTTATCAACCAAGATGGGAAACAACCAGT
3868 CaTSNP6820 GCTTCCAAGAAGTCTAATCGAATTGGGGGAATTTGAACCAATGTCTCCGTTAATCCTCAT [G/A] CGTTCACAACGAACCATTTCTCATTCTGATTTCTGATGATACATCATCTCCGATTTCTGA
3869 CaTSNP6821 CACAGTTCTCAGATCTTTCAGCACCAAGTCTGTACTTTTCCATACTCTCGTACAAGAGAGC [G/A] CGCTGAACGAGGACAGATACATTGTTTTTCATTGTTTTCCAAGAATCTTGGTACAATCCGCA
3870 CaTSNP6822 ATTGTTGAATAGTGTCTGTGCTTAGTGTCTGTGTTTACACCATATCCTTGACTGTATAA [G/A] TTTCCATAACCACAGCACCACCCATTGTTCCAGAGGCATCACTGCCACCATAGAAAAGTA
3871 CaTSNP6823 AGACAAAATGACTGCCAAGGAAAGTACAACATGGCTTGCCATCATCAATCAAGAGGAAGC [G/C] TTAGCACGAGTGTCTTACCCCAATTTTCATCCCTCCATTTCGCTCAGTTGGAGGAAGTGGGA
3872 CaTSNP6824 TGCGGTAGTTGAGAATCCGGGCTTGTGGAATTGGACATTCACCTTGAAAGATAAAGATGG [C/T] GAGGTGCTTGGTCAAAATAGATCGTGATTGGAGGGGTTTTGGCTTTGAGATTTCTAACTGAT
3873 CaTSNP6825 TTGTTGAGTCTATATATTAATTAATGGAAGTATTACTGTCTGATGATCATCATTTGAA [T/C] GAATTTGCTTTTGGAAATAGCAAATAGCAAGGTACCATTTTTATGGATAATGAGACCAGAT
3874 CaTSNP6826 GATAAGGCAAGATGCGGTGAACAAAGCTAAAGCATTGATGAGAAGCATCAGTTGACTGC [T/C] AATGCATCTGCAAAAGGTGAGTTCTTTTGATAGGAGAGTTGGACTGACGGAGAAAATTGACA
3875 CaTSNP6827 TGTTCCCGCGGAACCACCGGACCTCTCTTCGACATTGTTGAAGCTCGATCACACAAA [G/C] AAAAGAAAACCCCTAGCCGCTCGACTTCAAGAGATGGCGAAGTCAAAGAATCACACAGCTC
3876 CaTSNP6828 CCCGCAAGACTGAAGACTCTCAAACCTCAACCCGTCAAATCCTTCCCCATTAGGCGAC [A/G] CCCCTTCTGCAATATTTCCATCTGCTCCAGGACGAAGGCAATAGACCCGATCATCACACT
3877 CaTSNP6829 ATTACTAATAATAATAATAATCACAATTACAGTAAAAAATGAAAATCATTGGAGAGCCAT [C/T] GGTTTTTCTTTTATAAAGTTAACATCACCATTCTGTTGGAGTTAGCAAATGGTCTTGAA
3878 CaTSNP6830 CTTCTCAGAGCTTTTCAAATCCATTGAAGAATATGAGAAGACTTTGGAAATAAAAAGAAC [C/A] GCATGATCCATGTTGCGATCTTGTGTTGTTGCTATCTAATGTAATAAGTCATTTGCTAA
3879 CaTSNP6831 AAACACCAAACAGGAATCGTGTGATCATTGAAAAAGCTATTCTTGAGCCAGAACCAATC [G/A] TACCATAAAATGCATTGTGCAAAACAACTTAATACAAAACGTTCTGACCAGAGCAATGTT
3880 CaTSNP6832 TTATGATAAAAACAACAGGAAGAAGCAGGGGATTTGGTTTTGTTACTATGTCTTCCGGCTGA [A/G] GAAGTTGAAGCGGCTGCTCAGCAGTTCAATGGCTATGAAGTGGATGGAAGGGCATTGAGA
3881 CaTSNP6833 TTCAGTTTCAAACAACCTCGAACTCCATTTGCAACCGGAGCTTCGGAATCAGGCTTGAG [A/G] CGAAGCAATTTAAATGGAGGATTAGGATTGAGAGTTTGAAGTTATGTTTGGCTTTAACGT
3882 CaTSNP6834 TTCACTAGACTTGTCTCTCGCCAAGAGTCTCTGAATCTGTGTTTTCAGGATCAACCCACAC [A/G] ACAATAATGGGCTTTCGTGAACCTGTCCATCTTCGCCTCAAATAACAAAGGGATATCGAGA
3883 CaTSNP6835 TGTTGTTGTGTCTGTTGCCCTGCAATTAATGTCAAGCAAGTGGCTTTAATGACAGTGT [A/G] AGATGATAACCAGCAAGATCAACACCATCAAGAACAGACAACAACACATCAATGAAATCC
3884 CaTSNP6837 AGACACTTATCGTCATAGATAACAAAGCCAGCGAAATTTGGCTTGAGCTAAGCCAGCCG [T/C] GGCAAAACCAAAATAGAACAACCTACCTAAAATGTTTCTGGCTTAGGTAAAACATGAAATG
3885 CaTSNP6838 AGCCAAATTTGTTGGCTGCAACAACAGCTTATGTGAGCAGCAGAGTCAATGTTCTTCATCT [G/A] GTGCCACTTGTCCATATCAAGTTAACTATCTATCAGATGATACTTCAACTACTGGTTTCT
3886 CaTSNP6839 GGATTTGAGCATCTGTCTGACACTGATTAGTTCTTCCCAACTAATCGAAGCGATTGAGT [G/A] GAAGCTTATCTTCAGCTCCTCGGCGATAAACCTCAACTCATCTCATTTGAGGTAAAACAC
3887 CaTSNP6840 ATTCTTGAAGCCTAACAAAGCTGTGATTGTCTGCAAGGCCGATATGCGGGAAAAAAGGC [C/T] GTGATTGTTTCGTACATTTGATGATGGCACTCGTGAGAAACCGTATGGACACTGTCTTGT
3888 CaTSNP6841 ACATCTCAACATTATTAGCCTCTGACATTGCTTACTCTCTTTTTTTCGTATTGGAAGAAAT [T/G] AAGTATGAAAAATTCGCGATCTTTAGATTGAGTGAATGAGAAGATGAAACTGATTGCTA
3889 CaTSNP6842 TGTGAAACTTTATGTGTTAAGCCAGCAAAAGATGGATGCTCAACCGGGGTTGCAAGATTA [C/T] GTTGTTCATGACCTTGCATATATATCAATGCTCTGGAGGAATGTTTCTCAAGGATTC
3890 CaTSNP6843 TGCCCTCTTATCATCAGTTCTGCAGGGGTGACATCTGTGAGAGCTAATCTAGCAGTCTT [G/A] AATTTCTCTTTGAGGAAGAAAGAGCTTGTTTTTTGAATTCATGGAACGAAGGGGTGCC
3891 CaTSNP6844 CTCCAATATTTTCTCAATATTATCCACCATGATAGTGCATCTCGCCAACCTTCAACCCCT [C/A] ACACGATTGAGGGTATCAACACTGGGATTACTAGAAAAAACTCCATTTGCTGATGTA
3892 CaTSNP6845 TCTTCTGAACCACAAATCAATCTATTGTATCCAGGAATTGTGTTGTTGTTGTTGTTGAGT [C/T] ATTGGCAACTTCTATCATCATTTACCTTTTGTCTAAAATGAGAGGAAAAGGTGAAAAGGAA
3893 CaTSNP6846 GTTTTTGGTCTGTTATCTGGCTCTCAATTTGTGGTGGATTTGATTGTTCAAATTAGCA [T/A] TAATGAAACTTCACAAATCAGGTTTTTATTATAGGAGTTTTATAACTACAGATTGACAG
3894 CaTSNP6847 AGAAGATTCTAGATTAAGGAGAGACCAAAAAGAGAGAAGATAGAAAGTCTCAGGGGG [T/C] CTGACCCGAAACCCGAAATTCAGACCCGATTGCAATTCATTGATGCGGAGTAGGCGTCT
3895 CaTSNP6848 TGCTACTGGTTGACTATTTACCTTTCTGGAGGTCAAGGACAGGTGGTTGGAGGTGGTGT [G/C] GTTGGCTCGCTTGTGGCTGCCGGACCTGTTATGTTAATGGCGGCTACGTTTTCGAATGCA
3896 CaTSNP6849 GATGCGGAGGAGGAGGATCGGAAGTGAAGAAAGAGTTGGAGGAAAGAGATGGTAGA [T/G] AAATGGAGAGCGGATCGGAAACTCTACAACCATGAACGGTTAAGGAAGGAGCGAGAAAAG

3897 CaTSNP6851 TAACAACACAGGCACACAAAACATGACAGGTCTTATAAACAACTGGTTACACCAAAG [C/A] AATGGTAACGGATCCATCGTCTTTGGTGGATTGACTCTTCCAATAGACATTATAATTAC
3898 CaTSNP6852 TAAATGGGGACCACAATTGGAGATTCTTTACACAAAATCAACAGGAGCATTTCTGAGTCA [C/T] TGTGGTTGGAATTCTGTTTTGGAGAGTCTTAGTCAAGGTGCGCAATTATTGGATGGCCA
3899 CaTSNP6854 CCTCCTCAATTTACCCGGTTCGGGTCAAACCGTTTACGGCGAACTCTACTCTGTTTCTCC [A/T] CTCGGACTTTAAGGATGGATGAACTTGAGGGAACCTCACGCGCTCACTACGAGCGTCTG
3900 CaTSNP6855 TCGTCTCGCTCCAAAAGCTAAGGTTCTTCGAGATGGTAGGTGGAATGAGCAAGATGCTGC [G/T] GTCCTGGTCCCGGTGACATCATCAGCATCAAACCTGGAGATATTGTTCCAGCAGATGCT
3901 CaTSNP6856 CCGTCCATCATTTGATATTTAAGCATTGTTTGAACAGAGAAGAAGGAACAAGCCTTCC [G/A] ACATCTCCTCCACCGTACTAGGTGGTATTGGTGTGGTGTGATGAAGATTTACATTGG
3902 CaTSNP6857 TCCAGGATCTGTTATTTGCTTTTTTCTGCCCTAAATTGATTAAGTCTGTCCCTCCACAA [G/A] GCCCGTCTTGATAGCGCTTCTTACAACAGCTTCAACATGTTGTGCAAAGATTGAAC
3903 CaTSNP6858 ATCATTGGTTACCCTTTTATTAAGTGTGTAAGTGTCACTAATCTATCAAATTACACACC [C/T] GACTTTCATCTCAAAGTGAATGATATGCTGTTTATCCCCATATGGTGGTTTGACACT
3904 CaTSNP6859 AGTAGTAGGAGCATCTACAGTTGAACCTTCGGAATTTGATAAGATGACGTGCAAGTTCTC [G/A] AAGGATGCCAGATGTAATCCAGACTTTAGTTGACTTGTACAGTCTATTGAAATTTGATTGT
3905 CaTSNP6860 TGCGGCAAACATCGCCTTGTATGCAGTTGACTCCCTTCTCTTTAAGAATATGCGACCAAG [C/G] AGATGATTGGCGGAGGTGCAAGGCTCGCACCTCTTGAGCGCTCTTCGTATGAGTTCCAA
3906 CaTSNP6861 GCGACGTGCCGACTGGGTTACTCGAAGCCGGTTGATTACTGGACGTGGCGTGGAAAC [G/T] GCCTTGTGGTGGTGGCGGCTGTTATGTTAGGCTGCACGGTCAAGAGAAATCCGAACACG
3907 CaTSNP6862 TGCTTCCGACAACCTTTTCTTCTCGGCATGACGGGTGTAAGTCTTCAAACACTTCC [T/C] AAAACACTTGATTCTTCTGTTGAATGGAACTGTTAGAGATGGTGTGCTGTGAAGTTG
3908 CaTSNP6863 AGTTAAGCTTGAAGAAGGTCTCAATCCTTTAAGTCTGATAGATTGATGCTGAGTTCTA [C/T] GTTCAGTCCAGTTGCTCTTAAACGACAAGGAAATTAAGCAGTTATGTACATATTTAGTA
3909 CaTSNP6864 TTCTAAGGTTGAACTCGGAGCTTTAGATCTCCTTGCTCCAGTCTTTGGATAACTGTAGC [A/G] AGCTTGTCAACCCTGTCAGCCTGCCTAAATAAGTTGTAATAAGCTTGAGATTGCTGTGCC
3910 CaTSNP6865 AGCTGAGCTTCGTATGTTATGACAACCTAGGCGAGAAGCTGACCGACGAAGAAGTGA [T/C] GAGATGATTGCTGAGGCTGATGTTGATGGTGTGATGGTCACTATGAGGAGTTTGTCT
3911 CaTSNP6866 GTCCAAGAACTATCAAATCCATCTCCCGGACATTTCCACCACCCTTTCCACGGCG [A/G] ACATGTTTCATCGTATACTCTCTCAATAAAAAATCTCAGTCAGGGTTCATCTGCATATTCG
3912 CaTSNP6867 TTCCCTCTTGAACACCACATAGTTAACTGGGATCTCCTCAATTGGAATGTAAGTCTGATCAA [C/T] GTTTCGGTAACTTAGCAGGACGAGCAACCACAAATTTGCTCTTTGTTCTTTGTGTTAAG
3913 CaTSNP6868 TTCTCTGGTAGCTCCAAGTTCCAATTCAAAGGAGCAAACAAAAGGGGCATTCCAGTTTC [G/A] AGGGATCCAGCAGCATTTGGTAGCGAAGTACTCCGATCCACTGGTCTACACAGGACCTATA
3914 CaTSNP6869 CTCTCCGGTGGGTGTTTCTATTTACAACATTTCAAATTTCTCCTTCAACTACGGGAAGTG [G/A] TGGAAGTATCCGTGGCCAACTTATGGAACATCAACTTCTACAAGATTACAATATTTCTAT
3915 CaTSNP6870 ATCACTGATCCCTGACAACACCCTGCAGTAATTGCCTTGGTCTGAGAGGGTGTGCTG [A/G] AGCTGTTGATGTAATTGTTGAGTCCATTTCTTGCTACTGAACCCATCTTGCTTTACCA
3916 CaTSNP6871 ACCGAAAAATTTATCGACAGGTTTTGAACATGATACAAAGGATGATATTATTCCTTCAA [T/C] GAGTGGCTCGGAGAAAGTGGTGGAGCCGGTATCAAGTTGTTCTGTTGATACGTCATTC
3917 CaTSNP6872 TCAAAAAATATCTGATTTGCTAAAGTAACATAACAATACATGTGTTCTCAAACAAAAGCA [G/A] GTTACTCAGCATCTTTCTTCTTTGGCATTCTGTAACCACCAACAACAAGCATGGT
3918 CaTSNP6873 CCGTTATCAATGCTTTTATTATCGATCTCTTCTGCACTTCCGCCATGGAATAGCTTCCG [C/T] CATAGGAATTCCTGTTTACTACTTCTTCACTTCCAGGAGCTGCTGTTCTCTCTCTATTC
3919 CaTSNP6874 TAGATAGAAGAGTTTGAAGGCGCTGCTTCTTTCCGAGGAGCATGTTGAATATCTC [C/T] GTAACATCAACCAGATGCTTTCTTGTCTGTACAATCTAACATTGTAGTAGGCGTAAGGA
3920 CaTSNP6875 TAGAGGTAGAGGAAAGGGTAAAAGCTAAATGTTACTAATCAAGAGGATGTTGCAAGTGG [C/T] GAAGATGAAAAGTTCTGTACAGAAGAGAAGAGGGAGGCCACAGAAACCGTTAAAGGAA
3921 CaTSNP6876 CTGAACTCGCCGGACGTTTAAACCGAAGCCATATCTCCTCTTATTATTTTCGATTTTATTG [A/G] TTTTACAGCAGAATTAACAAAAGGAAATCAAGCGGAAATAGGAACTGTAGATCTAATTA
3922 CaTSNP6878 CCATGTTCCACATGACAGAGCGTTTCTCCTCCCTCTTTCCGGTGGACCCACAACTCGA [G/A] CTCCACCACAACGTGCAAGTCCCTCCTCTCAAACCCACGAAGTCCCTCGTCCGCTCACGC
3923 CaTSNP6879 TTTTCCACACATGTTGTTCCATCAGGGCTGTTTTGGGCCAATTGATTTGGGCTGCAGCC [T/A] ATTTGACCAATCCAAAATAGTACCATTTTCTTGTCCATAATTAATAAGAGTTTAAAGT
3924 CaTSNP6880 AATCTGGTATATAAAGCAGCAAGTGCAGCTCCAATGAAAGTCCAACCCAGAATATCCA [C/T] TGGTCATCCCAAGCATGCTCTCTGTTGTATATTATGGCAGCACCAAGACTCCTTGCTGGG
3925 CaTSNP6881 CTCTCTTCTCCTCTTCTTCTTCTTCCAGTTTCTGCTCACAGTGGCCACAACGACGA [C/A] GATGGTACTCCGACACCGACTCTGATGTCAAAAGTCTCACGACCTCCGTTCAAATCC
3926 CaTSNP6882 TTTCCAATTTACGTATTCACCTAATAGAACAAAAGTTCTTCAATTCAGCATAAGATCTTT [A/G] TCAAATAGTTGCTTCCATAACAACATGGTTCTTATTTTTCCAATAGGCACCAACACAGA

3927 CaTSNP6883 ACCCAAAGGACCTGATGTAGTTTGCACAGATTGAGTATCAGAAGTAGCACATGGAATCTC [A/T] CTAGATATCAGCTGTCCATTTGCGAGACGGAGATTTTGTGAGAATCATGTCCAGAAGAT
3928 CaTSNP6884 GGTGGTGGTGGTGGTGGCGGTGTTAGGTGATGGACGGGATTTGGGGCGTCCACCTTCGAG [G/A] CCGAATCTCTCGTCGTCGAGGAGAAGCTCGTCGGATTGGAAAGCTTGTGAGAGAGAGATG
3929 CaTSNP6885 ACGACCTCGGATGGAACATTTCCAGTGAATGGACTTCTTGTCAATGTAGGTTCTTC [C/G] GTTGCTTCTCTGGGAGTCTTAAACCAAGACCAATAGATTTCCAGAAGCGGTTTCCACCT
3930 CaTSNP6886 CCCTCCTAGTCTTTCTGCATCAGTATCTCCAACGAGAACATCTAGACCCATGTCTCCAAG [G/A] CGACATTCATTTCTTTTCAACCTCAAGAGGCATGCATGATGATAGGTTCTCCGTGTTT
3931 CaTSNP6887 AATAGATTTGACCGGAGCACAAAACAGGTTATAAGCAAATGTGAGCGCTCATAATGCTC [A/T] TGATATAGTGGAGAGCCTTCAGATCTTCTGTTTCGAGAGTCACATCAAGTATACCAATAGA
3932 CaTSNP6888 TTCCAACCTGAATGAAAGACTTCAAAAATGGTGTCTGCTACCCCCAGACTTGAGCTGTCTAT [C/T] CAAATTTATCTTTTGAGAAAGTTTCCATTTGTAATTGAGTTCCATGAACTTCTTGACGA
3933 CaTSNP6889 CTCTAGCCCCATTCTGTCGACGCTTTCAGCCGTATCAGTTAGCACAGGGGAGCTGTCTATTC [G/A] AGTAATGTATGTATCCGGGAATGGAACCCGGAACAACGAAATGACATATCCTAGTGGC
3934 CaTSNP6890 CCGGGTTTGCAAATCAATGACGCGCTAAGAATGCAGATGGAGGTTTCAAAAACGCTGTCAC [A/G] AACAACTTGAGGTTTCAAGAAGCAGTTACAATGAGAATTGAAGCTCAGGGTAAATACTTGC
3935 CaTSNP6891 TTATTCACCATGGTTTGGGTACTTCTGTGAGCCAACAAAGGCCACCTTCTATCTCTTA [T/C] GAACCCTTATCGCTTGCATCGCCTTCTTCTCGTTATTTCTCGCCTTGAATGCGCTTGGAA
3936 CaTSNP6892 TCATGTGGCCGAGGAACCTTTAATCGAAGCTAAAAACAAACAGTGATAAGGGATCCTGA [G/T] GTTTATTTAAAGCTTGTGCTAATGTATGTTGAAGAAGGTTTATTGGAGAAGACTTTGGAA
3937 CaTSNP6893 AATCGATTGATACTGAAACGTTCTTTGACTTCTTAAAACAAACATCCCTGGCATAGAGA [G/A] TCAGATTGACCTAGTACTGTGGACAGAAGGTTACTGGCATCCCATCTGATGCTTTTGGAGCC
3938 CaTSNP6894 GAGAATTGCCAAGGCAAAATCAGAGGCAGCAGAGTATCAAAAACCTTTCATCCAGATT [G/A] AAGGAGCAGAGGGAACGCCGAAGTGAAGCTTGGCAAAGAAGCGGTCTAGACTTTCCAGT
3939 CaTSNP6895 TCTTCAATTCCTTCATAAATAATGACTCTGGAGGCTCTTCTCCATTTGTTTTGGTTCTTCT [G/T] GGTATCTTGAGAACTACAACAGACCCTATTAGGATTGAAGGACTTGAAGTAGTGAAAGT
3940 CaTSNP6896 TGAATGTGAGATGACTAGAAATCTTCCGGAGGGCTTAAGAAGAGACATCAAAATACCATCT [A/C] TGTTTAGATTTGGTTAGACAGGTGCCATTGTTTCAACATATGGACGAGCTGGTTCTAGAG
3941 CaTSNP6897 TCCATTTCCATTCCCGAAATGGCATCGGCAGCCGCAAGACCCCTTGTCACTGTCCAAA [T/C] CCTAGAAGGCGATATGGCCACCGATTCCACAACAACCTCTCCCATCCCTGACGTCATGCG
3942 CaTSNP6898 ATCAGTGAAGAAGGTGGCGCGGTGATGAAAGAGGGCGGTAGATTGAGATCTGAGAGAG [C/G] GAGTGGAGACGGTGAGATCTGGCGGTGATTTTAGAGTCGCGGATCCGAGCGAGGGCGCCT
3943 CaTSNP6899 ACAGAAAAGTAGAAAACCTTTATTTCTTCAACAACACTACAATGGCTTCAATCTATAGCTG [T/C] GTAGAATGCGGCACCAACCTCAATCTCAACTCAACCCACGCTTACCCACCCGATTTCTAC
3944 CaTSNP6900 TTGACCTCTAAGACGACCAGTCTCTTGGCAGCAATGAGACCAACCTTTTGTCCAGGAG [T/A] GCATCACGTCTGACAGTACTTGCATGACCAATATGCTGGTGATTACCTCTCCATGAGGA
3945 CaTSNP6901 CAACCGTCTTGTCTCAGGTGATTTATCCTTGACTGCTTCTTTGAGGTTTGTGGGG [C/T] CTCAATGTTGATGTCACTGAATTCAGACCAACTTGGTCCCATATCCAAGAATCCATTTCT
3946 CaTSNP6902 AACCCCTTCTCGCTGGCCGTGCCCTTCGCCTCAACAACCTCAAGCTTTTTTCTAGAACCA [A/C] CAGGTCTTATACTTGAAGGCCATCTATTACCCCTGAGGTTACTGTCAAGGATGAAGGTCA
3947 CaTSNP6903 CAATAGGTCTTTATTGTGTGGTGTGGGGTAAAGCCAAAGACAATTCAAACACTACGCCAG [T/C] ATCACCTACAACAATGAAGCAAATAGAGACACAACACCTTCCAATTAATGTCATCTGGTCA
3948 CaTSNP6904 CAAACTCCTTTGTTTCCCATGATGTCTATTAAGGCTTCCAACATTTGTTTTAGAAAGCAAC [A/G] TGCCATTTCCATTCCTATAAGCAACTGAACCAATAACTCTACCCCATTTGTTTTTCATG
3949 CaTSNP6905 TCTTCCCAAGAATATACATTTGTTTCTTTTCAAGTAACAGCAATTTGTGTCTCCACCCACA [T/C] GAGATCTGAACAATTTCTGATCATGGGGAAACTTCACTTGCAGGAGAGTTGCGATCA
3950 CaTSNP6906 AAATCATCATTTGGGTTTCTGATATCAAAATTTCTCTTGTCCAAGCAAATATCGCCAAAA [C/T] GAGATCAGCATAAATCATCGAGTCTCATTGTAATTATCGGCCAAAAGGACACATTTGTC
3951 CaTSNP6907 GCCGGTGTGACGTTATTGTACCCTTTGTATGCATCGGTGGTAGCGATAGAGAGTCCATC [G/T] AAGTTGGATGATGAGCAGTGGCTAGCTTATTGGATAATCTATTCTTCTCACCCTTGGG
3952 CaTSNP6908 AAGAACAAGAGTTAACTAATTAAGTGAAGAGCAGTGAATCCACCACCTTTCATCATTTGCA [T/C] AAACCTTATAATCAACCAATCCATCTCCATCAACATCAACCTTCCCAATCATCTTCTT
3953 CaTSNP6909 TCTGTATTTCCCATGCGGGATCATTAGAGGAGCTCTTCTAACTTGGGAATTCCTTGTGC [A/C] GTTTCTGCAGACATATCAAGCCTCCAGCATGTTTCATTTGTGGTCCGTATAAAAGCCTGA
3954 CaTSNP6910 ACCTGATCAGCAATTTGGTTAAGATTGTTTACGAAAGAACTGTAAATCTAATGGGTGGAGA [T/G] GTCTCTGAATTTGGCTTTTGCCAAAACCTGGGCCACTGTCAATTTGTTGGCTGGACTCCAG
3955 CaTSNP6911 GCAACTGCTACACCTGTAGTACCCTCTGGGATAAGGGGAACCTTTGATGGGTTTCTGTCC [A/G] TACTTCTCCATGCCATGAATCAGAGGGTGGGGATTGCTCTCTCTTTTACCCCTTGT
3956 CaTSNP6912 TGGTTCGCAATGCTATTTTGTGATTTGTGCATTTGCTTGTCAAAAAGCCCCAAATATTGG [C/T] TGGCTGGAGCTACACTCAAGCAAATTTTTTATTGAATTAACAAATTTTTATCACTATTTG

3957 CaTSNP6913 TAGAACGCAAGCTTCTGATAGTGAAGGCTCTTGGGGACTTAACTTTACTTCAACAAGGAA [T/C] CAAGTAAATATTTCTAGTGGAGTTGTTACTACTTCCATTAACAATGCTTTGAGACAGCAA
3958 CaTSNP6914 AGGTTTTGCTTTGTGACTCAGGTGACATGGATGGAATTTGCAGGGAAAATGGTATGGAGG [C/A] AGTTAGGAGGGTAATGGAAGGGAGTGGCATGCAATAGATTTGGTTGACTATGCTTTATTT
3959 CaTSNP6915 TGGCTCCTCTTGCCAGCATGAAGTAAGAATTTGCGCCAATTCCTCAGGAAGATGGTCCGC [A/G] CTCGGCTAACATTTCTAAAGGCTGCAGCATATGCTGCTTGAAGGTTTGACATGCCTTCA
3960 CaTSNP6916 TTTCAACCATTTTAGCATGGGAGAACAGTAAGAAAAGCTGCTACAGAAGCTGAATTGAGAA [A/G] GCTTGAGGAAAACTGGAGAAGAAAAAGGAGAATATGCAGAGAAAATGAAAAACAAAAT
3961 CaTSNP6917 TTTTCCTGAGACTCATTCAAGTTTCTGTTAATCTTGGTCAGATTACTCTTTCCAACAATCA [A/G] CTTTCTGGAGTTTACCTCCTTCTATAGGTAACCTCACCAGCATGCAGAAGTTTCTTCTT
3962 CaTSNP6918 GGGTAAAAGATCTTCAATGGAGGATTTCTTTGAGACCAAAAATATCAGAGGTTGATGGTCA [A/G] ATGGTTGCCTTTTTTGGTGTTTTTGATGGCCATGGAGGTTTCGCGGACTGCAGAATACCTG
3963 CaTSNP6919 AGGTCAGGCTGAAAATTGCAATTTATAGGTAACCTGACCACCAAAAATGGCATTACGCC [A/G] TTTCTGCAAGATCAGGGCCACCACCAGGATGCTGCATGACAGTAGGATCACCTAGAGAA
3964 CaTSNP6920 ACTAGTCCCACCAAACTTATGTGAAGCCTACGAACCTTTGTGAGACTAATTTGAATTTCAA [C/T] AAACGGAACATATGTTTGAAGATGTCTCCTCGTCGATCCCCTGATTATCTTTGGGATAA
3965 CaTSNP6921 TGAACATGATCGACTTATAACCAAAGTACAAGGTGATGGAGTCATCGTTGCAACCCCTAC [G/C] GGAAGTACTGCCTATTCTACAGCTGCCGGAGGTTCCATGGTCCATCCAAACGTCCCCTGC
3966 CaTSNP6922 CATAGGTCAGTTCACCCCTCATTGTATAGTCAACAACATAAGTGTAGTGAATTTATGTATG [C/T] CTTTCCAAGTCTTTTGTCCCATGGAGGCTGAATCATGAAGTCTTGTATAATATGTTAAT
3967 CaTSNP6923 CCGGCCGGCAAGGTTATTGTACAATACTGGTCAGTCATCTGGAGAACTCCGCCGACA [G/T] CGCAAAACGGCGACGTTATGGACCGTTATCTCGAAGTTAACGCCGTAACAGAACTTAGCT
3968 CaTSNP6924 AGGCATTTTCTTGCAGCCTTCCGAGTAGCTGATCTTGGAAACATCTTTAAGAATTTTGCA [C/A] GCCATTCGCTGCGAAACATAATGGACAGCAATTTCTTCTAAAATCCTTCTAGTGGTCACA
3969 CaTSNP6925 TGGATTTCTTGTGAAGATGCGACGCTCTGCAACAAGAAAACGGGTCAATCCAATTCCA [A/T] TCCTTCCGTCAATTCCTCCGACGGATCTCTTCCGCTCCGCTTCTAGTAAAGCAAGCTC
3970 CaTSNP6926 TCATATTGCTGCTAAGCTTGAATACTTGAATCATGCTGCAGTGTCAAAGATAGGATAGC [A/G] TTGAGCATGATTCGAGATGCTGAGAGTAAAGGCCCTCATTACACCTGGAAGACTGTTCTT
3971 CaTSNP6927 CTTTCGTTGCTGCGGGTTATTCACGGTTCGACCCTTCTGGTTATGATAGCTTCCGGTCGG [C/T] GTCAACAATAAGCCGAAGCTTCTTCAGTGTCTCTCGGCTTCCCTCGCCTCAGATATGTTT
3972 CaTSNP6928 GATTTGCTCCAAGCGGTGGAGGCTCACCAATTTCAATATGTAAGCGACTTCATGAACAG [A/G] ACGTAATTGCAGAATAACTTGAGCATCCAAGTAAGCGTGCAGAGAAGCACCATACTGA
3973 CaTSNP6929 GAAGAGGAAAAGCGAGAGTAGCAGTGAAGTGAGAAGAAAGGTTATGGGGGTGTGGATAG [T/C] AATAGTGTGAAACACTGAAACAGAGAGAAGTAAATTAGTGTTTTTTCGATAGAAGGAGT
3974 CaTSNP6930 ACCTTCTAGGCCAAGCATCTTTGGGATGCTTGGACCACACATGTCAATGTCAAGAAGACC [C/T] ACTTGAAAATCCCTTGCAGCTAAAGCAAAAGCCAGCTGGGCAGAAAATGTGCTCTTGCCA
3975 CaTSNP6931 AGCCTCGTCTTCGCGGATGCATTGGTTCTCTACAAGCACGTGGCTTGATCAATGGCTTCA [G/A] AGATTATGCACTGACTAGCGCTCTCAGGGACCGCAGGTTTCCACCATAACAGGCTAAAGA
3976 CaTSNP6932 ACCCAATTTTCTTCTCCCTCTTCTTGTCTCCATCGCGCGTGTGCTCCTTTCGATGTT [C/T] GCAAATCTCATATTTATTTATTACCTAATTCAAACATAGTTCATCTCTATCTCGTTCT
3977 CaTSNP6933 AGAGCATTATGCTTTCTTGACTGCCATCTACTGTACTACTACAAGGTTGAGATTTCCG [G/A] ATTCTGACATCTCTGATAGATTGGATTTTGGATGATTCACGACTCTCTGTCTTCTATCT
3978 CaTSNP6934 TTGGGGTGTGCTGTACTTGTGGTGTACCAAGCAAAGATGATGCATTCAAACCTCATCC [T/A] CGGAATTTCTGCATGAGAGGACTCTTAAGGGTACCTTCTATGGCAACTTCAAACCTCGC
3979 CaTSNP6935 CATAAAGAATCCTATCATTGCGGCTCGACCATTAAGTAGTTCAGCTTCAGGGAGATGGAA [T/C] CTTTTTATCCATGCCACCAAGGTACAATGGAGGTGTCAAACACTACAGGACTGTTGTTG
3980 CaTSNP6936 GTTGGCAAGAGAACCGBAAGAGGTCAATGCAGTGAAGAAGTTACCGTCTTCGAAATCAT [T/C] TGTCAAGATATCAACAGAATTTCTAACACCCACAGTAGAGCACGGTGAAGTTTTGGGGTCC
3981 CaTSNP6937 CTTGAGGGCTTTGAGCTCACTATGGTCTAATCGACCCCGCAACCTGCTTAGTCTTGCA [G/C] AAGATTACAATAATGTAACCTTTGTAATATGAAAGTATGGGACGAGTATGGTCAATTTT
3982 CaTSNP6938 TACTTTGTCAAAGTTTTCAAGTTCAACTGCCATATCCAGTGTGATCTTTTTGGTGACTC [T/C] GGAGATTCCTCCATGATCTTGTGCTAGCGATCTCATCAATCGATTATCTTTTCAGGCA
3983 CaTSNP6939 CTGACTGAGATTTCTTTTTCTCACTCCACAATATTGAACTCTAGCAAATATATATATGTG [C/T] CATGGTTAATCAAAGTCTCCAAATATATTCATTGATTATTTCTTATATATATGTCAA
3984 CaTSNP6940 TTTTGTAGAGATTGCTTCCAAAACGACGAAGACATCCTTCAGAGCTATCATCTTGTATGG [C/T] TACTCTTCTTTGTGCTGGTATGGATGGAGGACAATGGAGCCCTGCTAGCAGGAACCAG
3985 CaTSNP6941 AGCTAGGACACATTCAATTTGATTTATTTGAAGAAGCACACATCATATAAACAAGAAAC [A/G] AAGAGAACTTATTTTCACAATCTGATGTACTTCTTCTGCTCATACTTGTTTACATTTAA
3986 CaTSNP6942 AATTGACTGGAGCTATGGAGAGCCAACAGAAAATGTTAACACAAGGTGTAGACAATGACAA [C/T] GACAACACAGGCGAAAGCAGCGCGCTACATCATTCGAATACCTTTCCGGTCCGCGTGAC

3987 CaTSNP6943 AAAGTGGAGCAAGCATAGAAAAGCTAATCAACTCTGCTTCCATTTAGAAAAATTGAAGAT [T/A] ATGACACCAAGTTTCTTCACAAGTTGCAATGATTTGATAAGCGAGTGGGAAGAAATATTG
3988 CaTSNP6944 ATGAGGCGGCTGATACCGGAGTTAACCCACCCGGCGTCCGGCGATAGAGGCGAAAAATCAA [C/G] AGAAGGAGGAATGAGTTCTGGCAAAAAGGCAGGGATAGCGGTTGGAGTAATCGCAGGAGT
3989 CaTSNP6945 AAAAGCTGCACTTGAGTTGTTGTTACCTTATCAAAGATCAGATTTTGAAGGAATTTTTCG [G/T] GCAATGGATGGTCTCCAGTAACGATTTCGATTGTTAGATCCTCCACTTTCATGAATTTCTT
3990 CaTSNP6946 CATCATACGGCGGCTCCGATTAGGTATCTGAGTGGACTTGGAGGCTCCACTTCTATTAA [G/A] CTTCTAATAGGCATGTCGGTGGTGATTATGTGATGACGATCGCTTCCATGTTTAGTTG
3991 CaTSNP6947 ATGGGTGCCAATGTTGGAGATTCACGAGCAGTACTGTCAAGGGGAGGGGAAGCTTACA [G/A] ATGACTACTGATCATGAACCTAATACGGAACGGGGCAGCATTGAGAATAAAGGCGGCTTT
3992 CaTSNP6948 TGTTTCTTCCTTCCTTCTAATTACAGTGAAATATTGTCTTCAATCGAGACGGCGCAATAG [G/A] TACTCAACCTGAACCTCCTTAGTAGAGGTATTACCCATTTCTCATACAATTGAGAAGCC
3993 CaTSNP6949 ATTCAACAACCTTAGCAATCCCTCATCCTCAAAGACTCAACCTCCATAACATGACACCA [G/A] TGACAAGTGTGTACCCGATTGATAAGAAGATAGGTGCATCTCGGCGGCGTGTCTCAGCG
3994 CaTSNP6950 CTCATTGAAAAGGTAATCTCTGATTCTAAGAAGTTCATTTGCTTCATTTGCAATGTCATC [C/A] GCCCGACCACGAGCAGCTCCTGCTGGAGATTGGAGTGCAATTTCTGCAAGAGGCATTGCA
3995 CaTSNP6951 TCGAATTTTTTGCACAAGACTCAAGTAAGCCTCTCGAGTATATCCTCGCCTCATTTCTCT [G/C] AAGCATTGTGCTACTTCTGTTTGTGCAGGTAATGTATCAATTTGCATATATTATGTCT
3996 CaTSNP6952 AAGCTAATCTTGATGCTCAAGTTGTAAATTTGTTTCTTAATTCCTTCAAAGGAATTGTT [G/A] TATGTTGTAACAAATATGCTGCTACCTGTATGAAATACAAATTTGAGCTCTATCTCAATG
3997 CaTSNP6953 ACGCAGTGTGTAACAGCCTCATTTGTCATGTTAAGACAAAAGGCAATCCGAGAAATAAA [T/G] GCCAACTGAGGCTCATTTGTAGAGTAGATATCTCCAGTTTCTTAGACACCATCCATTTA
3998 CaTSNP6954 TTCCCATCCTGACGGTAACGGTAACCCCTGCCCTAATTCCAATCATCTTGACGGAAGGATA [C/T] GAAACGAGTGAAGAGGACCAACGACAAGGAACATACGCATAACATCTTTGTAACAT
3999 CaTSNP6955 GTGGTGTGGATGTTACAACGCGGTGATACTGGTACATCGCTAGGGAATGCAACCGGA [G/A] TAATAACTCGGGCGGTGGTGGAGGTGGAGGCGGCGCTTGTATACTTGGCGGCGTTCGG
4000 CaTSNP6956 TATTAACCTTTCAGTTGGGTACTCCATTCAAACCATTTGACCAGCTTCTTGGAGTTTTTCC [G/T] GCTGCAAGCTCTCATGCTCTGCCTGAGCCATATAGGAACTTATGACTGATCCAGACTCA
4001 CaTSNP6958 TAATCTTCTAGCCGAAGATTCTGTTTCTCGTTTTAAATTTAAATTCAGATGCCATGGTTGA [T/C] GATCCCTCATCCGAGAAACCTCATGTTTGCACCAAAAATGGTGAACCTGGAATACTATGGA
4002 CaTSNP6959 TGATACTTTCTGACTAGAGATTGTTTAGCATATTCCAAGATAAAGCCAGCTGTGAATCA [A/G] ATTGAAACTCATCCGTACTTCCAGCGTGACTCTCTGGTCAAATTTTGTGAGAAGCACGGG
4003 CaTSNP6960 TTCCAACGGTTCGGTTCGGTCAACTTGCTGAAAATTGAAGCTCTGTGAAAACAATGAA [C/T] CGTGAATTCGAATCGGAGTTCCGCCGCTGCCGAGTACGAACTCAACTCGGATCGCGTTG
4004 CaTSNP6961 GAAATAATATAGTAGATATAGTCCAAACATCAACTCCGGCGTTGATGTGAAGGAAAATAT [G/A] GACATAATCAACTTCCAAAAGCGAAGCTTTCGAAAATATCCTGATAAGACAACCCAGA
4005 CaTSNP6962 TTGATAATAATAGTCTTCTATCTCATCATAGATATCTTCATGAACCACATGCTCTTCAAC [A/G] GTTAAAGGCTTGAACCATTGGGCCCGAAGTAGCAAGCAAAACACTTTCCTCAAACATGTAA
4006 CaTSNP6963 GGATGGTAAGAGGTTTTGCTGACTTAATGGATGGAGGTGGTAGAAGCCAGGCTATGGCAA [T/C] TCAGCCTCAATCTAATCCCTACCTCAATTTCTCTCCTGTTCAAGCACCAGCAGCTAG
4007 CaTSNP6964 GACAAAAGATAACAAAGCCATTTGTGATGATTTTGGTCTTCTTCTTGTGATAAGCATAG [C/G] TGGAGGCTCTTGTCTGGATGGTGGCTTCAAAAATACTACTCAACAAATAGAAACCTTTG
4008 CaTSNP6965 TTTTTTGTAGAAGGAGATGGTTCTCCTCCGGAGGAAAATCGGAGAGAAAAGCCAGCAT [T/C] CGGCGAATACTTCCGGATCGCGCCGCTTGAAGCTATTTGATCTCTTCAAGTTCTTGGAG
4009 CaTSNP6967 TGGCCATATAAGCAAGACATATCAATATTAATTCCTAAGCTTTGGCCATATATTATTCTC [A/G] TAATAATTGTACTACTACGTGAACGTAGTATATTCTTCTCTCAATGTAACCCCTCAGT
4010 CaTSNP6968 GAAACTAGTGAATCCGATTTGTCAAGCAATGAAAGTGATGATATTCACAGGAAGAAAAGC [C/T] ACAGAAGGCACCATAAGCATCACAGGCGATCACATAATGCAGAGGTGAGGTCACTGATT
4011 CaTSNP6970 CACCAACATCAACACCAGGATCAAGATTATCATCACTATCGCCATCTGCACCACCGCCAA [C/G] AACAGGAAGCTTACACTCACTTGTACCACCGCCAAGAACAGGAACACAGCCACCACCAGA
4012 CaTSNP6971 GGAGGAAAATGTAAGAATCGAACATATAGACATAAATTTATGCGTTTTTCTTAAAAAAC [T/A] CTGCATAGAAGTTTGTGAGTGTCTGTGTTAACTGTTATGTTATTTCTATCTAATTAGTT
4013 CaTSNP6972 AGTTTCCGTGGTTCGCTTAAATCAGTGAGATTGTGGACGAAAATTTTAGGGTTTGGAAATC [G/A] GTGAAAGAGATCTATTTTGCACAGTGAAGTTTTTGTACTTTCTTGTCTTGTGATC
4014 CaTSNP6973 GGGGGTCCACCACCAGGAGTCTCCATATTCTTTCTAGTTCTAGTACCAGGAAGGATTA [T/G] TATTATAAGTTTGTGCTGCTACTAACCTGGATCATCATTAAGTTGAAGCTTCCCTAC
4015 CaTSNP6974 TGCTTTTGCAGCTTTGCTTAAACCTTGAAACCATGGCTTCTCGTTATCATCGGTTGGGAG [A/G] TAGAATTTGCTGGAATGAGTTCGATTAATTTGTGCAAAAATAGGGTATGGTTATGGATT
4016 CaTSNP6975 AATCTATATCATATATAAAAACATAATCATCCAGAGTGTCTTCTTAAAGTTGTTGTATG [A/T] TGATTGATGAGCATAGGAACAAGAGAAGTTGATCATCTTCTGAAGCTGGCGGGTTTGAA

4017 CaTSNP6976 ATCAGTATCCTGAAGAGTTAGGAATGTGGTAGCTACACCTGTCTTTCCTGCACGGCCAGT [T/A] CGCCCAATACGGTGAGTGACATTTCAATATTTCCAGGCATATCAAAGTTGATAACGTGA
4018 CaTSNP6977 GATGACGAGGAAGAGGAACAGGAACACGCATACGAATAAAATAAATACTACTCAGTTGATTGT [T/C] CCTGCTTATTGCATTATGCATATATATGATGCGTAAAGTGTGTTCCAGTAGTACTCCTCTATC
4019 CaTSNP6978 AACAGTGCCTTTGTAGTAGTCATTGACCTTTCTTCTACATTTTTATTTCACGGTTAAATG [T/C] TGATTAGTGGTAAGTCCCTACTATTGGTGGTTGTGGTTGAATGGTGTCTTCTTAGTGTG
4020 CaTSNP6979 TGCTGATGCAGATGATGATTCACAGCCCAAAAAGAAGGTCGGTTCAGGGATTCTGCTTC [A/G] CAATGGATTTTCAGTTTACAATGCTAGACTACCGATGAAACAAAGGTATCATTACAATGTG
4021 CaTSNP6980 CCCGGCTGTCGGAAATTCCGTTACGGACTTCGTAGCTTGCCTTTGCACGAAAACGGCGT [T/C] GCATTACGAACGACGAAACGGTTAAACGAGAGAGTTGAAACGAGGAGATTGCATACCCA
4022 CaTSNP6981 AAAGACGTGAATCTCAACCATTTATGGTGTGATGGCCAAAGAGAGATGAATTGTTAGAT [C/T] TTGGAGAACAAGGGAGGGTGGAGCTTGATGAGGAAGATCCAGAGGAAAATCCAGAAGAAG
4023 CaTSNP6982 GAATATCCTGATAGGGACAGGGAGCGGTCACGCTCCCGGACCGTGAAGGGAAAGGGAC [C/T] GGGAACGTGATAGGGACAGATATTATGACCAGATAGGAACAAGGACCGAGATGCTGAAA
4024 CaTSNP6983 TCCTGCTGTAATAAGATTCAAGAGTAGTGCCTTGATGTTTTGTGAGTGTTAATCTCTCTCC [A/G] TCAGAATTTTGTGTACTTTGAGCAATAAGAGTGTCTAAGAAATCAGGTTTATCCGATTC
4025 CaTSNP6984 TGAAGTTGAGTTGAAGGATGATGACAAGGAAGATACATATGCACCGGATGAAGCTGAGAC [G/A] TCAAACGCTTTGTTTATGCTGCTGGTCACTTTGCCTTTCCACCCAGTCAGCATGAAAACCTG
4026 CaTSNP6985 TCATATATGGCATCTTATTATTATTATAAGAGAATAAAATGATTAGTATGATGTCATGAT [T/C] AATGTTTTAGTGTTTATGATTTTTTGCCAAGAAAAAAGATCAGTACGTACTAGCTTGT
4027 CaTSNP6986 TATGTTGCACACATCAAATTCACGGTCTTGTTAATGCCAAATGGATCGGATCGCATCACA [A/T] CTCATTCACCTCCAGAAATTCAGCCTACTAAAACGTAGATGATCCCGAAATTAAGGCCCT
4028 CaTSNP6988 CTTCAATTTTTTGTCTACCTTTCTCTAATTTCTCAAGCACTTGTCTACTTTTCATCCAC [T/C] TTTCTCGTTGAGTTGAAATAATAGCCATTTGAGCTCTTCTTTTGTAGCACAAATTTTCAT
4029 CaTSNP6989 ATTAATTTGAAGAAAGAACAAGGAATCCTACAGATGTTTAGCTACCTTCAGGAAGCCA [A/G] CCGTATCTGCGTTCAGAACTACTAACATTGAAGTCATCAACGCAGAAGCAGTTGCCGTA
4030 CaTSNP6990 TATAGCTTTGGCAACCAACTTATCCAAGTTGTCTACTCGGTACGCATCTAAGCGATCCAC [G/A] TAAAGTAGAACATCTATGGTCTTGTCCAGAAGGAACTTTTTATTATTCCAAGGCCATA
4031 CaTSNP6991 CTTCTGTGCTGCAAAAGGGATTTACCCAGATATAGAAGTATCCAAATCGGGTACTCGAA [T/C] GAAGTCTTGATAGGGTCATAAATAAGGACGTAATAATATCGGTTTGTAAATAGATATTGAA
4032 CaTSNP6992 TAATTTGTTAGGTGGCCATGCCATTTATTTAGGACCTGATGATATACAGATGGGTAAAGCG [G/A] GAGGAGACTCGTGATGTTGCTCGTGTGTTGTCTCGATATAATGATATCATTATGGCTCGT
4033 CaTSNP6993 TGGACAAGCCAACATATGCTGCTGCAAAAGCAGGAGTAATGGCCTGACAAAACCTGTTGC [T/A] AAGGAATATTCTAGCAGAGGCATCACTGTTAATGCCGTTGCTCCAGGATTTATTCATCT
4034 CaTSNP6994 CTCAAGAAGCTTGAATGGAACAACCTTATCATCAATTTCAATATCGAATTGGTATCTAC [T/G] GAATGTCCAACCTTAGCCTCTCTCAGATCAAACCTGTAATCTTGGTATCATCTTCAGCC
4035 CaTSNP6995 TGTTCCCGTTACAAGTACCCTTCTAGCTCCCAAATCATAAAGTCTCCTGAGAACTTTGCG [G/A] TACTCAGAAATGATATATCGAACATAATCTGGGAGAGAATATTGGCGAGATCTTGTGAA
4036 CaTSNP6996 TTCTGTTGTATAAATTTGCACAAGTAACGATATTGAAGAGAAAGCCACGTGGGATTTGATA [C/T] CCACCTTCTCCAGCTGGTCCGCGAAGATTCCTCAGTATAATATGGCAATAGAAGTTTGAA
4037 CaTSNP6997 GCTGCCGCTGCTAAGGCGAAACCTGCAGCCAAGGCAAAGGCTGTGAAATCGCCTGCTAAG [T/G] CTTCTAGAACCTCGACGAGAACGCTCTCCTGGGAGGAGAGCTGCTGCTCCGAAACCGGTGG
4038 CaTSNP6998 ATCTGATGTCTTCTTTTCATTAGCTTCGATTACATCAGGTTTGGCACCCTCTTCAACC [G/A] TTCTCAGGTTTCCCATTTGGCAGCATTAAATTGGAATATCTTCCACATCAAATTTATCAGAA
4039 CaTSNP6999 TATTTCAATCTTTGATGATATATACTGCATGCTATGCAATTTTGCAGGAAATAGAACCTA [C/T] GGAGGTGATTTCTTGAATAATGATATCAGGAAGTGCATAATCTGATTAACCTTATACC
4040 CaTSNP7000 CACAATGGGAATTAAGCCTCAGGCCTTTAGCAAAGTCAGAGATCCAGAAGTGAAGGCATT [C/T] ATTGAGAAATGCATAGCACAGCCAAGGGCAAGACCTTCAGCCACTGATCTTCTTAAGGAT
4041 CaTSNP7001 GGACAAACTTGTCAATGTTGACTTTTTCTCTCCTGGTTGTGGTGGCTGCAGAGCCCTTCA [T/C] CCTAAGATATGTCAAATGGCAGAGATGAATCCTGATGTTGAGTTCCCTCAAGTGAACAT
4042 CaTSNP7002 AGCCATAATCAGCCTTCAGCAAAATGAATATGAAGTTGCCAAGCTAGCGGTGGAAGTGG [T/C] CGTGAGCAAGCCATTACAGATGAATGTATCCCGCGAGGGAATGCATGATGACAGACCC
4043 CaTSNP7003 TAGAACATGTATCTGATGCGGATGATATTGGTAATGTGATGTTGGGGAGGGGCGCTTAT [G/A] TAGAGATTTTGAATGGCAACAAACCACTCTAAAAATGAAGAGTTCCAAAAAGTGTCAAC
4044 CaTSNP7004 ATCTTGCTTGACAGCATGCCACTTAGGGTTGATTTTTCTTAGCAAATAAATAAATGGAT [C/T] TGGCTGAGTTGAGTTTTTGAAGTGGTGTCCGGGATGATATCTTTGATCCTCTCTGTTATT
4045 CaTSNP7005 TCTTAACAAGCCTCCTATTAAGACTATTACAGATCCAGATGGAGATGTAATAGATTGTGT [A/G] CCTGTTTCAAAGCAACCAGCTTTTGATCATCTTTCTCAAAGATCACAAAATTCAGATG
4046 CaTSNP7006 CTCATTTAGCAATAGTTATGGAGTATGCAGCTGGAGGGGAACCTTTGAGAGGATATGTA [A/G] TGCTGGCCGTTTCAGCGAAGATGAGGCTAGATATTTCTTTTCAGCAGCTGATATCCGGTGT

4047 CaTSNP7007 TCTCCTTCTCCCTAGGACCAGGGGATGAAGTGGCCTGGAATTTCCCGAAGAAAGTGATA [C/T] CAATGGTCCATTTTTGAAGATAGCGTATCTTCTTCAAAATCATCAAAGATATCTCTCGC
4048 CaTSNP7008 TTTCTATTAAATCCTCCTACACATGTGAGTCAAGGTGATGAGTTAAGTGTAAATTTTCT [A/G] ATGAGTCGCTCGAAGGAAAACCATCGTTTGATGGAGGTTGAACCTGGGTGTGAGATTCAA
4049 CaTSNP7009 TACTGACGAAGGCCGAGACATTTCTGTCCACATATCAGGATCCAAAGAGCGCAGATATTC [A/G] AGCAAATGTTCGAATTTCCCTGTCTGTTCTAATTGCATCATTTTTCTGCTTCTGGGCA
4050 CaTSNP7010 AGATGCTTGCAAAAACGATACTGAACTACGGGCTGTCTTGGAGATAGTATCGGCAACCC [G/T] GAACTCATGAGGAACCGCGTGAAGATAGAATTCGAAAGAAGGGTAAAGACTTTCGTAGG
4051 CaTSNP7011 AAAATCTTGTCTTTTTCCAACGGTGTCTCAAACGCCACCACCACCTTAACAACCACCAC [C/A] ACAACCACCAAGTAACTGTTACTTACAAAGAATGTCTCAAAAACCACGCAGCCAACCTTAG
4052 CaTSNP7012 TTGTGGAGAGGGTGGAGGAAATGGTTAAGGGAGCGAAGGTTGTTGTGAAGAGAATGGAGA [A/G] TGGTGACGGTGCAAAGTTGGAAGGGCATGAAGGTAATTTGCTTGGTCTTGTGTGGTTTA
4053 CaTSNP7013 TCTATTTGCAAAGCCTTGCATTAGTATGGCCCTGTGTCTACATTTCTGAGCTATTGCCAC [G/T] GCCAAACCTTTATCATCCCATTTTATACCGTCCAAACAACGAGTCTACCTTAGGGTCAGAT
4054 CaTSNP7014 ATGATCCAGCATTCTACGAGTCCTTGTGACATCTACTGCCCCAAGCTTGCAAAAAGA [C/T] TTGGTACAGTGTTTTGGGAAACCATGACTACAGAGGTGATGTTGAAGCACAATTAAGCCC
4055 CaTSNP7015 CTCCGCCCAACAGCAGTGTAGTCAGTGGGCTTACAACATGGTAATACGAAGCATTAAG [G/C] GTGTCACCTTTATCATTGATAGTTAGAGATGCAATAAGGTCAGCATGAGTAACATTCAAC
4056 CaTSNP7016 GAGTCAACAATTCACATGTTCTTCTTAGAAGGCAAACCTCAGAATCAGCAGGAGAATGG [T/C] TCCTCACATTATGATGCTAAGGTGGCTGAACCTAAGAGCTGCTATTTGGGCCCTTATCTGGG
4057 CaTSNP7017 GGATATAGTAATTGCAGTGGACCCATGTATAGCATCAATCAAACCATCATTACAATTAGA [C/T] AATGAACAATGATCCACCCAAACATGACTTCCACCAAAGATGGAACACCATCACCGTCC
4058 CaTSNP7018 ATACACAAGTGATGATTATTTTCATGAGATGGAATTACCCAACCTACAATTTTACAATGGC [A/C] TCTTTTGGACACCCCATTTGGTAAGATCCAAAGAATCAGATATAAAGGGTCCAGGTTCA
4059 CaTSNP7019 AACTAGTCCAGGCTTTCCCATAGCTTCCGCTTTCTTAATCACCTCGTCATCATAACTGTA [T/C] GCCTCAGGGTCCACCACCATCACCTGTTGTGTGACGGGATCAATATCAAAACACAGGTA
4060 CaTSNP7020 CACAACAATAACATGAGGAAGATCAAAGTTGATTAATCTTTGAATCCTTAGGAAAAGCCTT [G/A] GCAAGGATGGAATGGTAGTACCATTCCCTCCACCAACATCCACTAAGGAATTAACACCA
4061 CaTSNP7021 TTATTTGATTTTCATGGTATTAATTAATTAACATCATTAGAAACTGAAGTGTGAAGAAGAA [G/C] AATATGGCCGAAGAAAAGAATCAACGTCAATTCCTCTGAGTCAAGCTGACAATGCCTCT
4062 CaTSNP7022 ATGAACTATGTTACCACCAGCACTGTCACCACCAATGAAAACCTCTGTTGAAATCACCATG [G/A] TTGATGAGCCATGGCTCTTCATTGATGGGTTTTTATGATCTAGAGAAGAATTAGAAGCAACC
4063 CaTSNP7024 TTAGCTGCTCTCAGTCTTGGTGTCTCTCATCAGAATTTATGGCTTTTGTATTGTTAGTA [C/T] TACGACGATCACGAACAACACCAGCAGATAAGTCGTAGAGCTTTTCTTCTGAACAAGTGG
4064 CaTSNP7025 TCCCAATAGAAATTTGATAACAGGTACCTGGAAGACAATCCTGTACTGAACATAAGAAC [C/T] AGAACAAACTCAAAGTATTGATCAATGGACCACAACGATTCAACAGCCCTTTCAGCATAA
4065 CaTSNP7026 ACTGGTTTCTTGGACTTTATATATTCTGCCTCTAATGCTCTCAATTAGAGGTTGATGGAT [G/A] TTTGGATTGTTGTTGGTGAACCTTATGAGTAGCAAAGAGTTTTGCTTCTCCGAATTGCGTT
4066 CaTSNP7027 TTGCTGCCAAGATGGATTCAATTTCAACCTGATTGACTGCAGGGGTAATGGTAGCTATTTT [C/T] AAGAGTTTGGTGTGTTTTTGGTACCATAATTGCATATGCCAATAGACTTTGCTAAGCCT
4067 CaTSNP7029 AGCAGGCTGGTCAAATTTCTGTGCAAAGGGAAGAAATTTAGGATCCTCTTGATCTGGC [A/G] CTTCTTTTGTGGTGGAGAGTTACAATCTTCAGATTTAAGCTTGAACAAGCATGCAAAC
4068 CaTSNP7030 TTGAGCCAAAACAGAGGAAATTTGAGCAGCAAGTGAAGAATATCAGCACAAGAGACTAT [A/G] TTAGGACAAGCATTTTCCACCGCAGTTTTAATTCGATTCAACAATCCAAACCTCTTATT
4069 CaTSNP7031 AGATTGGGATTCTCTATTACAAAATGATCAGTAAAGCTGGAGCTAGAGAGTGGACACAT [A/G] TTAAGAGGTTGGCATGAAGGAGCAATCAAATTTGCCCAACATAACAAGTACTTTCCAAAT
4070 CaTSNP7032 GCAGCCAAGGCTCCACATGTCTAATGAGTAATCATAGTCTTGCAAATCAACTAGAAGCTC [A/G] GGCCCTTAAAGTATCTTGAAGCCACACGAACATTGTATTCTTTCCAGGATGATAAAAT
4071 CaTSNP7033 AACCCCATTCACCGTTACTCCGTCAAGTTCAGCCATTTACGAAAACCGCATTGCCGT [C/T] GCCACCGCCAAAACCTCGGCATCCTCGGTAACGGCCGCTCCACGTCTCGAACTCTCC
4072 CaTSNP7034 AATCAGGTTCTACCTCTGATTCTATAATGGCTGTCAAAAAGAATATGAAGACGTACA [A/G] GGCAAAGATAATATCCATCGGGACAGCAATTGCTGATTCACAATGGCAAGGTTTTGAAA
4073 CaTSNP7035 TTCTGCTGCATATAATGATCCAAGCATCATAAGCCAGAAGCTCCCCATTGTCAAGCGCAC [G/A] ACCCAAAAGCTTGTAATTTCTTCTTAAATATAAGGCTGTAAATTCCTTCCAGGGTTCT
4074 CaTSNP7036 TTTTGAGCGTTCAAAATATTGTGACCGATCCTGATACGGTTTTGAGCACTCTGATGCG [T/C] GAAATTAAGGAAGTTGGCCTGATGGGCAAGAGGTGACTAAGGTGGTACCTGCTGTGTCT
4075 CaTSNP7037 TCTTGAGTCTAATAGTATCCCTATTGTTGAGCTAACAGTTAGAAATGGAAGCTCATTGA [C/G] CTTAAGATTACCTGATGCTCATGTTACATCTTACAAACAAAAGTGTTTTGGAAAGATGA
4076 CaTSNP7038 AATAACACTAAGAGCAAAGATCTTGAGGAAGTGTTTTTGGAGTGGATTTGTTGGAACGG [G/A] ACGATATGGAGGATGTTAATGGCGACGTAAGTGAAGCGGCATGATAGCATGTGGAGC

4077 CaTSNP7039 TTCCGACCTACGCTATTCCAACGGAAAGCGCCTCACGCGACTTTC AATCCAGGACGTAAT [A/T] GCAACGGCGGTGAGATCTAAACCGTTCCCGGTCGATCACCGGAAAGGAATCTACCTTGT
4078 CaTSNP7041 GATATCCTCTGTTGGGTGCCACCTCACCATTTTCACATCTGAGTATGTCTTG CAGCAC [C/T] GACACACACTCAAACCTATGCCTGGCTGCACTTCCCATATCCAAACAGACTTATCTCTA
4079 CaTSNP7042 TACAAAATACATAATAAGCGAATGAACAGGAAAAATACATGTAGAAAAATATTACATAG [A/G] CGATTGAAACAATTTACCTGAGTCTCATCACAAAAGATACAATAAATACAGTATGCAAA
4080 CaTSNP7043 AACTGGAGCACCTAAACCTTTAGATAGGCAAACCTGAAACCGAATCAGCTGCTTTGACAAG [C/T] CTATCCACAGGAACACCAAGTGCAATTGATGCGTTAAAAATACGGGCTCCATCGATGTGA
4081 CaTSNP7044 TACAAGTTCATAACTCATCTTTCTACGGTATCAGATCCCTGCTTCACAATAATAGACAAA [G/C] TGGACGAGGAAACCCAGTCTCTGCCTCATTCATTAATCTTCAAATGTTTGGCTAGAAA
4082 CaTSNP7045 TTTCTTTAAGTGGGTACTCACTGATAACATCACTGTTGAGAACAAAAATGGCTCGCCGG [A/T] GTCATCAATAAGCTTATCCCTAGCAAGAGCCAAGGGGCCTGCAGTTCCTAATGGTTCAGT
4083 CaTSNP7046 TTGGAAGTGGAGGGATCATAAAATTCACTATGTTGTGCAAGGAGAAGGCCCTCCTCTTGT [T/C] CTCATTCATGGTTTTGGTGCATCTGCATTCCTGAGATACAATATAACCAGAATTGGCT
4084 CaTSNP7047 AAAAAATGAGGCTGATGTCTATGGTTGATCTCAGCTCTGATGGATCTGGTCAAATTCATA [T/C] GAACTTATTAGGGACACACTTCAGATCAATGATGATGAAGTTGAACTATGGGTGATAAAA
4085 CaTSNP7048 TGCATGCCAAAGAACTCCTTTTGCAAAGTTGATTGCTTCCAATCCATGGGCCGGTAAAG [C/T] GTTGCTAAAGCTCGGAACTTCAAGCAGTTGCATGCATCATTGGCGAAGAAGCCTCATGC
4086 CaTSNP7049 AAGGCTTAGTGAAGATAAAGTGAAGCAATGTGTTGATGTTAGATTGAAGGGAGAGTACCC [A/T] TCCAAGTCAGTTGCAAGAGATGGCTGCTGTGTGCTGCACTATGTGTTCAATATGAAGCTGAG
4087 CaTSNP7051 ATAATCAAAGCTTCCATTTCTTCTGTGCCATTAGCAATGGTACAAGAATCTTGGGTGGA [C/T] TGTCAAATGTCCATTGCCTGGGTTTAGCTCCAAAAAGTATATTTCATCACCATGATTAG
4088 CaTSNP7052 GTTAGATTCACGGTCCCATGACTCAGTATCGCGACCGAAGAATAAAGGCTTCGGGAAC [G/A] GAGACACGTCTGTAGCATAAAGGAAAAGTAAACAACAGTGTAGTGTGTTGGATTCTCAAGC
4089 CaTSNP7053 TAAACAAAAATGCAAACTAGATTAAGTGTCCATCTGTTGAATGTATACTTGTGGTCTGA [C/T] GACGTCACAGAAACAAAAGTTGTACAAATGCACGCCTAGTAGAAATCAAAATCAGCTTTC
4090 CaTSNP7054 TTAACAACCTTGAGTGAAATATCAACCTGATTTTGTCCAGCCAAAACGATAGCAACAGCAG [A/T] AATGGATGGATCTTGGATGATGTATGAAGACCGTTATCTCCCATTTAGAGTGAACCTC
4091 CaTSNP7055 GTCAGTGAAGCAGGTCAATCCTCGACAGTATGTTGCTCAAATCCCTCAGATTTCCAACCT [G/A] GAAGTCTGGTTCCAGAGGCCGAAAGACATTGTAAGAAAATGTTATCCGGAGATCTTGAT
4092 CaTSNP7056 CCTTTATTTTCATCAGCTCCTTTGGTTCCAAGCCTCTGTTCCACATTACATAAGAGTCTAC [T/C] AATAAGATCCTTTGCTTCTGGTGATAGTTTAGCTTCTTCTGAAATTTCAAATAAGCTCT
4093 CaTSNP7057 TGCTGTCCATATAACAATGGTGATGGAGGGAACAAGAAGGCTTAGCACATAAGTATAT [T/A] ACTCCACAGCCAAAGTGGTCAGACTTCCGTGAAGCAAGTTTCCGGTCACGGTGAGCTAAAG
4094 CaTSNP7058 TGGATGCACCAATTCACAAGAATTACTGGATTATGTTGATATTTTTAGTCTTAATGAAA [G/C] TGAACCTGGTCGCCTTACGGGAATGCCGACCGAAAGTTTTGAAGAGATTACACAGCTGC
4095 CaTSNP7059 GCTCATTAGCTTGTCTCTTTGCTACTAAGTACATATGGTTTGCAAGAATAAATGTAAG [A/T] GGAAATGTGCTGATCGCTCCTGTGAGGCTCATGAAGTCTCCAAGGAACGGAAGGAGAGCC
4096 CaTSNP7060 TACTATTAGGTAATTGATTAATTATTATTATCTTTATTATTATGTTGCTTTACTTCTCCC [A/T] GTTTCATTTTCAGTTTTTTGGTTCATATTAGCTGTGTATTGGTGTCTGAGATTGACGTTTG
4097 CaTSNP7061 AAGGATACCGGGTGTGTTGCAAGCATCGTCGCTCAATTAGAAGATTGAGAAATAGCAGAGGA [A/G] CTAATAATGCAAGCGTCTACTAGGCTATGAAGTTGTCTTGTGAGTTTAAATTTAATATGA
4098 CaTSNP7062 CACAACATCATCCATGTCATCATATCTTGACGCTCAAGCAAGGCTTCGATGTTCTCCGG [C/G] GTCGTTTCAGGCGGATTGATGTTGTCTTCCACCGCACCCATTTTCAGTTGTTACCTGACC
4099 CaTSNP7063 AGTTTCAATAGAACCATCCTTAGAGACACGGATATCAGGCCTTCCAAACAGAGCCTGAGT [T/C] TGCTTTTCAATCAATGATATAGCTTCTTGGAGCGTACGGTAGCAAGTCTCTGAAGTGTCT
4100 CaTSNP7064 ACAATTCTCAGTACCAATGTCTCCTCTACTCTCTCACCATCACTCTCTTCGCCTTTCCT [T/C] CACGATTCTTCACCTTCTCGCCATGGAATTCACCTCTTCCCTTTTCTCAGCTACTTCC
4101 CaTSNP7065 CTTCTCCTTAAGAAATTTTCCCAAGGCAAAAGCTGCCTAACAGCTGCAAGAAGTGTGTC [A/T] AATGTATTTTATGTTCCACCGGCTCAACAAGGTGCGATAGATTTCGAGAGTGGGATTCTC
4102 CaTSNP7066 TCGTGTCTTGGTGATCAATTAATTGTTGGTGTGTTAGTGTATGCTGAAATATTGCTAA [C/T] AAGGGTCTCCTGTTACCCCTTACATGAAAGGTTGATTATGGTGAATGCTGTCAAATGG
4103 CaTSNP7067 TCTCCCTCTACCGTATGATGGTAAAGGTTCAATCAGAGCCACTCAGTTATATCTGAGA [A/T] GCAAGGAGAATAGCATCTTTATCCAAATAGAGAGTGAATGACTAGTAAGGCTGAAACTA
4104 CaTSNP7068 TGCTTTGTTAGAAGCTGCTGTTGTTCTTGGTGCATTCTAGGTGGTGGTTGTGATGAAGA [T/C] GTTGAGAAATGAGAAAATTTGCTAGATACATAGGTTTGTGTTTCAGGTTGTTGACGAT
4105 CaTSNP7069 CCTTAAAAAGAGCATAGCGGTTGCATGAAATGGCAAAAATCTCGTCTAATGGTTATGG [C/T] GTTTCGTCTACAATCTGAAGTTCCTAGAGCTATAGTAAGGCATCCATAGAAAGCTGCCAT
4106 CaTSNP7070 ACCAATAGCTTTTCATTCACATCTGTAATTCCTTTACAGTCTCTGCAAAATGAGGATCCT [C/T] AAGCATCTAAACCAGTGGCAACGACACCAAGATCGGAATCAGTGACACCGGAAAGAAG

4107 CaTSNP7071 AGTAACCATAGTTCACAAAGGATCAAGATTGCTTGAATATATTGGGACAAAAGCTTCAAG [G/A] AAGACATTTAAAATGGCTTAAATCAAGAAAAGTTGATGTGAAATTAGAACAATCAGTTGAC
4108 CaTSNP7072 TCTCAGTGACATTTTTCATTACCCAAGTCCACCACATGATCAACATCGAGTGATTTCAAGA [G/T] CTGCACCTTTTTCAGCTCCCTCGGCAACAGCAATAACAATGGCCCCACATGCTTTTCCAAT
4109 CaTSNP7073 GTTGCAAACCTGCTCCTATGAAGCAAGGCTCTAAAGATCTCAGGGAGTTTTTTGATTCTGGA [T/A] CTGGTAGAGTTGTTTCTGCAGAGGTTATATTTAATGAGAATCCTAGAAGGCCCTCTGGTT
4110 CaTSNP7074 CTTGTATTGTATTGCTGACTACAGCAAGAAGCTGCAAGTATTCATCAGCACCATCAACTA [G/A] GCACTTATCTGCTTCACCCAGCTTCTTGGATATTTCTGCCTTCTGTTTCTGATATGTC
4111 CaTSNP7075 AGGATGGGCAGCCTTCTGATTATATATACGAGTATATTAAGTATGAGGCTTTTATTATTC [G/T] CTGATTTTTTTGGGTTCTTCATTTAAGAAAAGAAATAGTGGAGGAACTGAAGAAAGA
4112 CaTSNP7076 GTTGATGGCAGCCGAGTCCGCAACAAGCAGGACCTATTTAGTCTTCTGGGGTTGACTA [C/T] ATCATAGCTCCATTGAAGGTGTTGCACTCTCTCAAAGAATCTGTGCTTCTCCTGATGAG
4113 CaTSNP7077 GCATCCTTTTGTAAATCAACAGGATTAAGGGAAACAGCTACAACCTTGTGATGAGGACTTGAT [T/C] ATCTTTGAGTTGTGGTATAGACCAATTAGGATGCAATTTAAGAATATCTGTTGGTTTACC
4114 CaTSNP7078 CATGAGCATCAGAATCCACGTCGACTTTGTGATCTTTTCCTTTACCATAAGAAGTAATGC [A/G] GAGCTGAGAACAGTTTTCAATATCTGTGCCTGCAATCCATTGAAAAATCCCAGGAGGCCCT
4115 CaTSNP7079 TGTTGACAATATCTTTATGTGAACCTGATCCAACCTCAGAATCGTTTATGCACAATATAT [C/T] GTTAAAAATGGCAATCATAACCGATTCCAATCAGACCTTCTACAAAATTTATCTCCTGA
4116 CaTSNP7080 TAGCCTTTTGTCTTCAAAATATAGCTGGTCCAGCCTGCATGATCACAATGGATTTAATGACA [G/A] TATAAGTGATTTAGAAGACATTGGTTAAACCCGGCTGCATAGGGAGAACCATCAGCTCCA
4117 CaTSNP7081 GGCACAAGCAATGAAAGAGCAAGCTCAACTCAGGGAGGAGATGGCTTACCAGTACAAGCT [T/C] GGAACTTTGAGGCTGCTGCTGCAATCCAGAGAAGGTTGGACCCTGATGCTGCAGTGTAG
4118 CaTSNP7082 AGGGAAATCATGCCCTGCCAATATATCTAATATACAGCCGTGGTAAAGACCTCCTAGTAG [C/T] AGCACCCATATTTGAGTGATTACCTCATTCTCGGATATTGCTCCAGAAGGAATGGTCTA
4119 CaTSNP7083 TAAATGGTGTGAGTTAGGGGCTTGCTTTGTAGGAGGCTGTTGCAGAACGACTCCTGCTAC [C/A] ATTAGAGGAATATACAAGATACTCTACGGCAATGAATCTGCTACTCTTGCCACAGAGTGA
4120 CaTSNP7084 GAGAGTAGGATGCCCTTAGCTTGCTTTGCGAAGATGAGAAACAAGCCGTGGCTGTAAAAG [C/T] CAGTTGCAGTTGATGACCAGCCATGTACAGTAATCCACCTCTTCACGGAGCACTTGT
4121 CaTSNP7085 TACTCGTTATAACTTCCATGGTGGAGTTAATATCAAATATGTAGCAGTTGGGAATGAGCC [C/A] TTTTTGAAATCTTACAACAATTCATTCTTGAACATCACACTGCCTGCCTTCCAGAACATT
4122 CaTSNP7086 CTAAAAATAAATCTTTAACTGACATCAGACTCCCAGACCAAAGTAGCGAAGAATGTGATCA [A/C] GATCATCCAATCAAGCCAGCGAGCATACTTTATCTTGTCTGATACTACTGCAGCAAAGGC
4123 CaTSNP7087 GTCTTTAAGAACGGTTACACGGGCGATTTTACCAGAAAGTTGAAAAGAGAGTGTGTAGGTC [A/G] GAGTTTGTAGCGAGTAATCTATATTTGAAACGTATAAGGTTGATTTTGTGATGGTGCTAAT
4124 CaTSNP7088 ATGGATCACCTGAGTTTGTATCCTGCAGTGAAGCTCTTGTATTATCAAGGCGGAAGTTATG [G/A] TGGATCCAGACCTGAATTCGGAGGGAACCTTGGATGAAGTAGAGATACGAGAGTTGCT
4125 CaTSNP7089 TATTGTTGTTCAATTTTCCAACCATCATTGAAATCACTTGGTTTTGAAAGTAAATTAGTGA [A/C] GGTGTTGTTGATATCAGAAATCCATTGTTTTTGCATCAAAGTTTCTCCTTTGATCAGG
4126 CaTSNP7090 TGGTATGGAAAAGAAATATCTTTGGAAATCATCCAGTATCGTTGTGAGGACAGATTCACG [C/T] AGTCCTCCACCTGCATTTTCTTCTGATCCATTGATTAGTAGGGAAAATCTTGGAAATTC
4127 CaTSNP7091 ATCATCACAAGCTGAAAACAAACTGCTAGCCACCTCTAGTGCCCTTGTAGCCAGCTCT [G/A] GAACTTCTATGATCTTCCCATCCATAAATACCTTTTCGGTTAATCCTGCACATAAATGGT
4128 CaTSNP7092 TAGGGAGAATACTGAAGGCGAGTATGCTGGACTTGAACATGAGGTCGTTCTGGCGTCGT [T/C] GAAAGCCTTAAGGTGATCAGCAAGTCTGTCTGAGCGTATTGCCAAATATGCATTTGAG
4129 CaTSNP7093 CTTTGTACTTTGGGATTGTTGCACCTTTCGGCAACATTATTGCCATCTATTAAGCGCTTTCT [A/G] CCGAAGCATTGGAATGACGACCTCATAGTCTGGCGTTTTCCATATTTCCGCTCTTTTGG
4130 CaTSNP7094 GGGTCTATTCTGTTGAGGTTGCAAAAAGAGAGAGCCTTGCCATTGGACCCGAGGAAGGCGG [T/C] TTCGGAATGTCATACGATCTTCTATACGGACGAGCTGGATTCTTATGGGCCGATTTGTT
4131 CaTSNP7095 ACATTCCATTATTCTCTCTGCTCTTTGAGGTAATTTGGTTTGAATCTACTGTTAGTTG [A/G] ACTGCAATTTAACTTCCATTATCTGATGTTGTTGCTAATACTGCTCGTGAGTCAACCAACA
4132 CaTSNP7096 AACACCAATTCCTTCTGTTTCCACCATCAACAATACAGAATCATCTGCAATTCCTCCG [C/T] ACCAAAGCCAATTTCAAAGTGCCTCAAACGACCCAACCTTACTCAATCCGATACCCA
4133 CaTSNP7097 GGCAAGGCGGCCAAGACCTGCCTGGAACGAAGATCACCCGTTAGAATACATCCAGTGTGA [T/C] ATCACCGATTCAAACGACGCGGAATCAAACCTTCTCCGTTCTCACCGACGTCACACACATC
4134 CaTSNP7098 GGAAGGATACAATTGGTGCCAGGAGAAGAATGTGGTGACTGTTTTTAGTGCTCCAAATTA [T/C] TGCTATCGATGTGGAAATATGGCTGCGATTCTGGAAATGGGGAGAATATGGATCAGAAT
4135 CaTSNP7099 CTTAGCATATAGCGATAGAGCAACTGGGGAGTTGTATATGCCAGCACATCCACAAGAACA [C/T] TCCTTTTTACGCCTATCATGTGGAGCATTATCGGTTCCAAGGAAAAATCGTTTACTTCCA
4136 CaTSNP7100 CGGCAGTGCATTGGTTGGGATATTTACTTTATTGGGTTCCGATTTTTCTGTCTCGAGTC [A/G] CTGCTGAGCGTCTGGGTTTTTTCAGCAAGTATTGATGTACTTCCGTGGAAGTGGCAAGGCT

4137 CaTSNP7101 TGTAGACTTTCCGACATTTGGCAAACCAACAATGCCAATCTTGAGGTGAGAAGAGAATCG [A/G] CCAAGGATGGGTCGTTTCAGCTGGAGCTTCCTTGATTGGCAGATTTTGGAGGCATTTTT
4138 CaTSNP7102 TAAACACGATGACGTGACTCACTCGGAGTCAAAGGAGGAATTACCAAAGGAGAACATTGT [G/T] GCTCCTGTTGAAAATTCGGACTCACTCCGTAACATCGATCTGAATGCCAATATGAACGAA
4139 CaTSNP7103 AAAGACAAAGTTAAGGTTGCCATCTCCAACCTCTTTAACGGATAAGTCGGAGAAATGTT [G/A] CCAAGAATTGATGAGAGGGAAGGAACGGATTGAATGTATTCGATGAGTGTCTTCATTA
4140 CaTSNP7104 GCCAATGATAATATCAGCCTTATTTTGTATTTCTTTGCTTCACCTACCACAAAGTCCAAG [G/C] CCTTGAAGACATCTTCATCATAAACTGAAGGGGATTTCTGTAGGGCCTCCATTGGCCAT
4141 CaTSNP7105 CTTCTGCTGACATGTTGATGTACTGATTGATTGATTGATGAATTTGGTTTGAATTTAG [A/G] GAATGGCTTTTGGTTGCTTCTTGGTGTAGTTGACTGTGTAACAACCCCTGTTGGCTTG
4142 CaTSNP7106 CAGATGAACCACCATGGTCTTCTCCCTCTCGACGACAATTATAAGCAGCACCTTCAAATT [G/T] CTCTTCAAATCAGGAGCAACAATGCCAATCATCTCACTTAGTGCTCGTCGTTTATTCTT
4143 CaTSNP7107 AGTCTATGTCATGATGTCTGGCTTGGATCTGGAAAGGCTTGTTTTAGCAGCTGGTCCACT [C/T] GGCATTATGCAGGCATGTCTCGATGTTGTCCTTCCCTTATGTTGACAAAGAGAGCAGTTT
4144 CaTSNP7108 AGGAATCCAAGAACTATTGGTCCAGATGCTATGGCAGTGGATGCCATGAAGAAGATGGAA [G/T] CACCTCCATCACCAGTCCAGTTTTTACCTGTGATAGATGATAAATGTCTTGATTGGAA
4145 CaTSNP7109 GTTACCAGAGCTTTCTTAGCACCATGGAATTTGAAGGACGTGCTTGGAAACCCGCTCTCT [G/A] GAAGCTTCTGGAGAGACAACCTCACTTGCGAAATTCGCAATCTCGCACCGAATTATGCGTG
4146 CaTSNP7110 TTTTCAGTAATCTATTTGCTCATCTATTTTCCACATTTCTTGTAAAGATCTATTAGTAC [A/G] TTATCAAGAGACTCTTGAGATTGTTTGGAGCAAAGACCTCAAACGAACAGATGGCTTCA
4147 CaTSNP7111 GGTAACGGTGTGGATAGATAGGTTATGTTTTTGTGAGAGTTAGTGATGGGACGAAAAGT [T/G] GTTGTGAGCGTTTGTAGTGGGATGAGGTTTGGATGAAAAGGAGAAGACGTGTTGAGGTT
4148 CaTSNP7112 CCCTCAGTGGAGCCCTCAAAGTCTTTCAAAGGCTGTTCCGAATTTGGAAGAGGCTGGTCT [G/C] GATCTGCTCTCTCAAATGTGCAATATGAACCTTCAAAGCGGATTTCTGCAAAGAAAGCT
4149 CaTSNP7113 TTTTCGTCGGCGTCAAAGGAACCTACAACCGTGGTGGTAATCGGGGATTAAGACCAGATGT [A/G] TCGAGTTTGTGAGCAAGGTTTTGTTAGGTTTTAGAATCTCTGCTTTTGTCTTCTGTTTG
4150 CaTSNP7114 AAAATGGTTGCAATTTTTCGCAATCAGATGGTAAGTGTCTCCATGATACTTTGCAGAGAG [A/G] CGCTCCATAAAAAGAACGGAATTTCTGATAGAGACATATCAGTGCTGCCAACAAAGACTGAT
4151 CaTSNP7115 ATTTGATTCTTCAATTGATGAAGTGAAGGCAAGTACCAGGTTATCACTGATGGTTCA [C/T] CCTGACAAATGTAAACATCCACAAGCAAAGGAGGCTTTTGGAGCACTAGCAAAGCCCAA
4152 CaTSNP7116 ATAAAGAAGAACCATCTTAAAGTTGGAATCAAAGGCCAGCCACCAATTATTGATGGGGAG [C/T] TATATCGATCTATCAAGCCTGATGAATGTTATTGGAGCATAGAGGATCAGAGTACACTTT
4153 CaTSNP7117 AAATAATATATAGCAAAAATAAGAATGATCGATCTGCGATCCGAAAACATATCTAGAACAG [T/C] AAGGAGAGGAAAGCACATCCAAATACTAAGCCAAGCACCATCTTCTGCGACCACAACCTG
4154 CaTSNP7118 TTTCCATGAATCAAACCGTTTGGTGACTGCAATTTCTGGGCACAGTAAAGGAGGTGGAGT [G/A] GTGCTTCTTTATGCTTCAAATATCATGACGTTAAAGCAGTCTCAATCTCTCTGGACGC
4155 CaTSNP7119 ATTAAGTGCTCTCAGCTCCTTCTTGAATCAATATTAGGTCCTTTAGGATAGAGTTGACG [C/T] ACTCCTTGTTCTTCCAAGCTTGGTGAACATCACTGGTAGTGAAGTCTCCAAAACAA
4156 CaTSNP7120 CACACAGCGATCAAGACTCAAGAGGCGCAGCAACTTTGCTCGTCTCTTTTACAATTCGC [A/C] AACATGGCAAGAGGTTGAAGAAACATTTGAAGAGGCTCAATGCTCCAAAACATTGGATG
4157 CaTSNP7121 AGAAACACAAGATAAAAACATAAAAACAAAAGGATGCTTCTTAGATACACCCTCCATACTT [G/T] GAAGCAAATATGATGACAAAAGGTGAAGTTAATTTGTTGAGTTGACAAACTTAATTAGA
4158 CaTSNP7122 GTACTACTATTAGCAAGAAGCATAGACTCAACAATTACAATTACAATGTTAGTAAGAAAC [T/C] CTCCATTTCCATGGCCATGTATCTGCTCCCCAGGCATATGATTGAGGTTAGAGAACAA
4159 CaTSNP7123 ACCAGACACACACGCAATGTACGGCCACAATACTTTGATTTCCGAATTTGCCCTTTTAGA [G/C] TCTATTCCGCCCACTTATTAGGCGAGTCCGAAAACATATTCGGAGCTCCAACAACCTTCT
4160 CaTSNP7124 CACACCCAACAGTTCCAATTTGACTATCACCATTAGCAAATGGTGTTCCTTCTCAGTAT [C/T] ATTTTGGATGGGTTGAGTATAATCAATCTGGACCCTATTGGCTTCTTTGCTGATTTAG
4161 CaTSNP7125 GAGCAATTTGGACACCTTCTGGTTGTAGGAACTTGCGAGGGTCTAACAGAAGTACCAGAT [A/G] CCGAAATCGGATCAATGTTCAAACATACACCACCTGTGGAACACCGAGCGCAGGCCAAGT
4162 CaTSNP7126 TTTTTATTTTTTGTGGGCAATTTGTCATTTCTGTCATGCATACAGTTGTGGTGGCTTA [T/C] TTGCCCTTGAATCTTGAACAAATGCGTAAATAATTTAAGAATTTTACAATATAGATGT
4163 CaTSNP7127 AGAGGATGAAGGTGGTGAGGAGAGGGAGGAAGGAGGAGGGAGGTGAAGCGGAGA [T/G] GAGTTAACGGGACGACCGAAGAAGCCGTGGAAGATGCTGTGGGTGATGGTGGCGAGGGC
4164 CaTSNP7128 ACAATCCATAGCTGCAACTGCAACTTGCTCATACAAAGTCCATTTCTCAGAGCCGAGAGT [G/T] GATCGTTGTTTGGGATCGTTCAAGATGGACAAACCGTCTTGGAGACTTTATCAGAACGG
4165 CaTSNP7129 CAAGCTCAAAGCCAGCCTACACCCTCCCGGTCAGCTCCCAAGTATTCGGTGCATT [C/T] GATGTGTCAAGCAGACAATAGCAGCCGAGGTCCAAGAGGTTTATATAAAGGTATGGGA
4166 CaTSNP7131 TTGAGACATAATAAAATCTAAGCTTATCTCATGCATTGTTACAATCTGAGTAGAACCAG [A/T] CATACATATCAATTCAAACAACAACTGTCTTACTTTCCACCATTTAGAGACCATGATTT

4167 CaTSNP7132 CTTGGATGAGCCAGATGAACTTTCTAGGTGCATTTTAAATGTGTCAATGCTGTGTGACTT [G/A] AAATCCGTTTGTTCCTGTTACCTTGTAATAATCCCTCGAAAACGCAAAATAGAACTTGTG
4168 CaTSNP7133 AGGAAGGTAATTTTCATTGCCATGGACTTGTAAATCATGCTTTGCTAACAACTCCACATC [A/G] AATAAGAGTACCGAATCAGGAGGAATGACACATGAACCTCCTTTACAACCAGCACCTCTT
4169 CaTSNP7134 AGATTCTTCACAGAAATAATTACCAACAATCATCAATCTGTCCAAATAAGCAGCCTCT [G/A] TTCTTCGCCCTAACAGATCTCTTCCTCAATTCCTCTGAGGTGGAGTCAGCACGCTCCGC
4170 CaTSNP7135 ACTCACAAATAGGGAAATAATAAATCAAATCAACATCATTATCAACAACAAGAACAAGT [G/A] TTGAACTCTGAAATATACAATGTTCAAATGGATTCTACTCTGCCTCTTCCAACAACAATG
4171 CaTSNP7136 TGACCCTCAAGTTCAGGACGCAGCAAATCATGCTATTAAGACCATCCAGCAGAGGTCCAA [C/T] TCACTAGTGCCCTATGAGCTCCATGAGGTTGTTGATGCAAAGGCTGAGGTTATCGACGAT
4172 CaTSNP7137 TGTTCGCTCCGAGACTTAGAGGCGAGGCAACATGATTACTTTCATGATTTATCAAGTTTAT [G/C] GATGCATTATATTTTGCATGATTTCTGTTGCTAATATGCAATAAAAAATGCAAGTGGTGG
4173 CaTSNP7138 TACATAGGAAAATTTATAGTTGAGGCAAGTGCAAAAGCAGGACACCCACTTTTGTCTGT [G/A] TTAGAGAGACACAGTTTCTCATCTGAAAAGTCAAAGCTAATTCAAAGCTTTAAGACCT
4174 CaTSNP7139 TCTTGGCTGCGCGAGGGCTAAGTGAAGGCTAAAAGAGGAAGCCGCGGTGGCCGGTGGTGG [C/T] GCCTAATAGGCTACCGCCGCGGAGCAGTGGTTGTGTGGTGAGGAGATTGGAAAAGAGAT
4175 CaTSNP7140 ATCATCACAGTTGTAGTATAGTTAACAATGCTTTGCAATACAGATATTATGTGTTGAACT [G/A] CCAAACATAAAATTCCTACATATGCTAGAACAAATTCCTCAAACCTTTGGTGTGCCCAATG
4176 CaTSNP7141 TCTTTATCTTAATTATAATATTTATGGGTTATGCTTGTGGGGTTTCAAATGTTGATTGA [C/G] CTATAAGAACTAAGTCTCTATTTGGGCACATTAAAGGATTTACAAAATGATATATTCGA
4177 CaTSNP7142 CTTACAATGGTTTCTTCAACTTCAACCATGTTGTTGTATCCTAACTAGGAACATGTTCA [C/T] TGTCACTGTCCAATGTACAACCTTCAATTCAAAAATCAAACATTTTTCATCTCTATTTCAT
4178 CaTSNP7143 TGGAGGTGTGAAAGATGCGTAGAGGGGTAGATGAAGAAAATGGGAGCGTGGGTGTGGCAA [C/T] ACCAGTGTTACCTTCTTCGAGTTCAAGCAGTAGCCTACCACGACGGCACGAATCGGACG
4179 CaTSNP7144 CCACTTAATTGGTGTACTAAATTTCCCTAACCTTCTTACTCTCAATCCCAATCCTAGGTGG [C/A] GGAATATGGCTAAGCAGCAGAGCAAACAACACAGACTGTCTCAAATTCCTCCAATGGCCA
4180 CaTSNP7145 CATTGATGACAATACGAAGAGGAAGATTGTATTTGTAGATAACAAGAAGCTGAAATCAAC [A/T] TTGCTTGAAGAGATTGATGAGAGTCAAGATCCAGAGATATATGGAGGCCAACTTCAATTA
4181 CaTSNP7146 AGCCAAGCTATGGTATCTCTCTTGTCTGTGTGCCAAATCTCAAATTTCACTGTGGC [A/G] TCATTTACTGCCAATGTCTGGGAAAAAACGCTGCCCTATTGTTGATTCCTGAAATTC
4182 CaTSNP7147 ACTTACTTATCTTTTGGATAAGAATTACTTTGGTCCAATCTTATCTGATGGCTCAACCTT [T/C] GATTTTCAAATCAACAATTCAAATATTGGAATAGACCCTTTTGTAAAACCTCAACCGGTG
4183 CaTSNP7148 GGGAAAGTTGTGCGTTGGTTGATGGAAGCTTGTGGATTGAATGAATGAATGAGAGTCG [A/T] ATATCGTGTCTTCCGTGAGGACGAGGATTTCCACTTCCACTTCTCGTAAAAATATTTGTG
4184 CaTSNP7149 AGTAGCAGCTTCAAGTTTCTGTCCACAATTAGAGACTTTCTAATGATTTCTGCGTCGCG [T/G] CCAGCAGGTCATGCATCCAAAGTAGAACTGCAGTCTCTAACTTTCCAGTGAGCTCCGAA
4185 CaTSNP7150 AAACAAGCCTTTTGTGGAGGATCAACTTGAATATGTATTATCGAAAGTTGTTGAAGA [A/C] GGGTCCAAGTGGTGCCTGCATTTTTTGCCTATTTTTTAACGGACAAATGATTTTAGT
4186 CaTSNP7151 CTCTTCTTATCTAAGTCTTTTATTGAACCTTTTCTCTGATGAATACGCGACAACCGGT [A/G] GTAGCCTCGACTCGCTTGTGATGAATTACCTCTTGGTCCAAGAAGCCTCCCAACAAGTTG
4187 CaTSNP7152 GAGAAAGGAGCTGGTGTCTTAGAGGTTGGAGTCTCACTATCCGAACACCACCAAGC [C/A] ACCACGACGATGCTACTTTTTCTCTTTCAGCCTCGCATCTGACCCAGCAACCGTAAACCC
4188 CaTSNP7153 CCCTAACACAAAAAGAAGCCGAAGCCAAATTCAAACAATCTCAGAAGCCTATGATGT [G/A] CTGAGTGATCCTCAGAAGAAAGCTATTTATGATCAATATGGGGAAGATGGTCTGAAGGTT
4189 CaTSNP7154 GAAGCAAGAATGCCATAGAACCAGTCAAAGATGAACATATTTTCTGAATAGAAAGAGAGA [T/G] ATTCAAAACCCAAAACCTTGAGAAGAAAATGGGTTTGTGAAATCTGAAAAGGGGATCAGA
4190 CaTSNP7155 TTTTATGTATCTTCCATCCATGATTTCCACGCTTGAGTAAGAGCTTCTCTGTGAGGTT [G/A] TCTACTACCCCAACCTTTACGGAGCCACAAAGCTCTGGCACCGATTTCCAGTGCGCCAAA
4191 CaTSNP7156 GGAGCAATTATCAGCAGAAGACGAAGAGGAGATTTGGCAGAGTTGAGAAGCTTGGAAAC [C/G] CAGCTTGAGTTGAAGATCTTCTGAAAGTTCTACCACAGTTCTGAAAGATTTGATGAA
4192 CaTSNP7157 GTATATCATAAAACCATAAAACCAATATTTTCTGTAAGTGCATATGGCATCCTTAATAC [T/C] CTGACTACAAATTCCTTCAAATAAAAAGGGAAAAACAAGTACCCCGAATGCCACAAAAC
4193 CaTSNP7158 TGCCAACATTGAGAAGAAAAGAGGCAAAAAGGATCAGGATAAGAACCATCAATCACTGT [T/C] CTCCAAGGCCCTAAGCCAGGCAAAACCCACTGATCTTCTAGGATGCGGCAAAATATTTGTTA
4194 CaTSNP7159 GGGACTCTTTAGCATCTACAAAGAATCCTACAACATCATAATTTTCATGGAGAAAGATCTT [C/T] AGCCAAATTACCTTAACTCTAATCCTCCCTCTCACCTTCACTTTCTTATCCACATAGAA
4195 CaTSNP7160 AATAGCTTCTTCATGTGCAAAAGGATGTCCATATTTTCATGGAAAGGAAATCCTAGTTCATG [C/T] CCACTATAATGAAAATAAAGCACATCCCTGCTTCAGCTCGATCAATCATGCTACCTAAT
4196 CaTSNP7161 TCAATTCACAATTCAACCTACATCTTCAGATTTCTTCTCCTTTCTCTCCATCCACCGTTT [G/C] TCCCCCTAAAATAATAACAACAAAAAAGATTTCTTATTAATTTTATTTATTTTCTT

4197 CaTSNP7162 GAAGGCAACGCCAACTTTAGCAGCAGCCTATTCTATATCGCGAGCTGTTAAGATACCTGT [T/C] ATGTGTTTCATCTGGGCTAAGTGTGTACAGCACCTATGGCTATCACTGCTGGAGCTGCT
4198 CaTSNP7163 TGACCCACAGATAACGAGGCTGATGGACAGCAGCAGTCAGAAGAATCACAGATGCAGCC [G/A] ATATCGGCAAATGGAATCTCTCATGCTGGTATTGATACTCAGATTGTTTCAGTATGCAGCA
4199 CaTSNP7164 AGAACCTTCTGGTTATCTCCGCAACAGCAACACTCTTCTTGAATTGGTCTAAATGGTGA [G/A] GTATGATGCATTAATGCTGTACCCTTGTCCGCAAATATTATTGAAGCGGATGAATCTGG
4200 CaTSNP7165 GATGTTAACCCATCTAGCCCAAGTTGTCAAACCTTTATAGAATGCAATGAAACGGTTCAT [A/G] TCTTTGTACAATTTGTTACCTCTTCAATATAATCCCACGGTTGTGCATTCCCGGTGTGG
4201 CaTSNP7166 AAGATTTAAGAATCCATCTGGCACTTCTCTTTTGGTACCATCGGTTCAAGAGTTAGCTA [A/C] AGAGAATATTTCAGAAGTCCACCAAGATATATTCAATCTCAACATGAAGGCTTGGTACT
4202 CaTSNP7167 GTGGGTGGGTAATTCTGCAAAACTATGTCCAGGTATGTGTGCATATCCCTTCGCTGTACC [T/C] GAATATATCCCTAATGTTAAACCGTTTAAAGTCACTAACGGTGACGTTGGAGTAGACGGA
4203 CaTSNP7169 CATAAATACATGAACTCTCAAAATGGACAAATCATATCAATGATATGTGCATGAATTTCT [C/G] TTGAACCTTGATAGGTTTGGATCCAGAAGAGTTGATAACCAAAGGGCAAGTATTCTTTA
4204 CaTSNP7170 AAATTGAGCAATAAGAAGCTCTTCTCTTTATCATCAGCAATTGAAACAATTTCTCCAGT [A/G] GGCCCTGCAATGAAGGAGTTCCATAAAAATACTATCTCACTTTTTTCCATGCTCAGTCTCA
4205 CaTSNP7171 GTACTTTAGAAAACCTGAGAATGCTTCTCTTATTGAATGCAAGAAAAATGTATCACATAAT [G/T] TCATTACTGTCACATTAGTTAATGCTCTCATATTGCAAAAACCACAATAAGTAATCAAGC
4206 CaTSNP7172 AGGGAGCGGCTGATGATTATGAGACATGTGTCAAACATTTGGTCAATACCAATGTAATAG [T/C] TTTATCATCATCTAGTGGATTTCCAAAATTTGATCTCATGTTGCTTGGCATGGCCCTGA
4207 CaTSNP7173 GATGATGTATAACAAGAGTGTGAAGTAGTCAAACAGTCAATCAAGAGCTTGGAGGGAAG [A/G] TTACCAGGGAACCAGGGCAATTTCTGGCTCAACACAAAGATCACTTCTTTCTTAGATC
4208 CaTSNP7174 CTTCTCCAACCTTTGACTTCCAATAGCAGAAAAGGTGTAACCTGGATTTTCAAATGCAG [T/C] ACAGTTCTAGTTGAATCCATTAGGTACACCTTTACTTTTCTGAAAAATCATGTTGAGAGCT
4209 CaTSNP7175 TGCTCTTCCAAATGTATGAGCACCTGAAAGTGCAACTAGATCATTGTGTGAGACCTTG [A/T] GCAGCAAAGGAAGATTTTAGTTGAGTAAGGTTGAAAGAAGGACCTGGAAGATTTTGATTT
4210 CaTSNP7176 GGGGAGTGTCAAAGCATCGCCCTCCTTAATGCAATAACTTTCTCTTCTGATTCTGGGAG [T/C] ACAATTCCAGCAACTCCACTTCTTGTAGAACATAAGCAACTTTAGAAGAATCAGAGTAA
4211 CaTSNP7177 CGCCTCGCCATTGGGCAAGTGATGGGGTGGTCTTTGTTGCTTCCAATTTGGTAGTGCCAT [C/G] CTCAAGAACTTGTCCATCATGTCCAATGTTAAAAATGGTATTGTGGCATTTTCGAGTTCCG
4212 CaTSNP7178 AACTGATATCTTATCTTCTCAGATGGTGTCTTATATGTTCCATGATGTTACCTTGA [T/C] GAGACTACTGACATTGCAAATTACAAAGAGTTTGCAAATCGTAAAAGAACATATGAAGTC
4213 CaTSNP7179 CCTTTGCAGCATAGGACTCTGCCTACAATCCATTACTAGGTTCCCCATGCTTGAGACGCT [A/G] CTTGAGAAAGAGCCAGTTGCTGTCTTGTTCATATGCCAAGAAAAATATCCAAACAATC
4214 CaTSNP7180 AGAAGTAAAAGGAAAATTCAGGTTGGAGCCATTATTTTGGAGGAAAGAAATGTGCAGTT [G/A] GATGCAAAACATGAATGCAAGATGCAACTCTTTTTCAGGCTCCTGAGGATTTGTGCGCTT
4215 CaTSNP7181 ATGCTCTTGGTGCAACTGTTATAGGAAGTATCCAATGAAGAGAAAGCAGCTCAAGCCA [A/T] GGAGGATGGCTGCCATCATGTGATATTATATAAAGAAGAGGATTTGTGACCCGCGTGAA
4216 CaTSNP7182 AAAGTGACAGTGATTTCGGATGATTACTTCGATGATGATGACGATATGCTCTACAAAGAGG [T/A] CAATGATGATAGCGAGGAGGAGTGAAGGAAGATGAAGAAGAAGAGGATGAGGGAAG
4217 CaTSNP7183 AGGGAGGTGAATTCGCGCAGAGATTAATGGGTTTTGTGAAATGACAATGTCTTTTGTATGA [G/A] ACAGAAGTTTGTGGATCTTGGAGAGAAGGTGGTACGAAAGAAGAGCCTAAGAAACGTTCCG
4218 CaTSNP7184 ACGGTTGGCATAATCCTTTGCAAGCAAATACCTATTTGGCCTATCCTTGTGCATCACTGAA [C/T] ACTTTCACAATCCGGGATAAGACCGAAAGACTGCACCAAATGGCATAGGTCGCATATAA
4219 CaTSNP7185 ACCCAAAAGGCTCGTTCAATTCAAACCCCAATTATCTCTTTATCAAACCCACCGAACT [T/C] GATGACGATGAAGAAGATGACAAAGAAGAAGAACGAAACAGAAGAAGAAAGGCTGAATCT
4220 CaTSNP7186 TGAAGTTGTTGAGGCCAAAGCTGGAGCTGGTCTGCAACCCTATCAATGGCATAACGCTGC [C/T] GTTAAATTTGCAGATGCATGTCTTCGTGCCTTGAAGGAGAGTCTGGCATCATTTGAATGT
4221 CaTSNP7187 CTCCCAGACGACATACTGCTTAAACAGAAAGCTTGACATTCTAGAATCAAGCCACCCAAA [T/C] CTAAGATATTTCTACACTGTAGATAATCCAACAAAAATTTGAAAGGAGGTGCAGGTTAC
4222 CaTSNP7188 TTCATATCTCTGCTGAATTGACTTGATTGCTCAGTTGACTGGAAGTATTCATCATCAA [C/T] CGCCCATCTGAATCAAATTTAATTTTCAGCAGTGGAGGAGAGCTGCCAGCCACCGATT
4223 CaTSNP7189 ATATAACATTTCTCTTGCACGAATGCTCATTTTCGGTAGCTTTTCCACCGCAGATCCGAG [T/C] GGTGATGGATCATAACTCTGGAATTTGGCATAAATACCTCTTCCCTTTTGTACCAGCA
4224 CaTSNP7191 ATTTGTCAAGGTTCCATGGATGGAGCACCTTACCTTCGTAAGGTTGACTTGACAATGTA [C/T] AATACCTACAAAGATTTATCCGATGCCTTAGCCAAAATGTTTCAGCTCCTTACCAGTGGT
4225 CaTSNP7192 GAAGTTCCAAATTCAGTTAGATTTCTCTTCGCCATTTCTATTGAGATAGGAAGAAGTTC [G/A] TCTAAGATAGTCATCGAGTTTGGAAATATCGACAACCTTCTCGTATCGAGTGATCTTTGTG
4226 CaTSNP7193 AATTGCAACCTCATCCCAACGAATTTCTCGGGCTTATAGGCTGATCTCCACTTGAGTGT [A/G] TCTTCCAACATCTTCTTCGACTTGTGCACATTCCAATTTTCGAGCTCAAGATATCTCTTC

4227 CaTSNP7194 TGTGCAAGCTGGGCTGATGAAGATGATGGGAGATGGAAGAAACCTTGACTTCGGAGATT [A/C] CCGAGTGGTTTTGTGTTTTCTAAGTTTCCCTTGGCAGACTAAGTAGCTGTTTGTCTAAGT
4228 CaTSNP7195 TCTCATTTTTCCGTTTTCCCTTTCTCCGCTCCACCAACCATGGCTTCTCATCTCAACCTTCC [A/G] ACAACGACATTCTGCATCCTCCTCACCGTCATAATCTCTCTATGTTTTGCCACCGAATCA
4229 CaTSNP7196 GGGTCAAGCATTGGGTTGTTATCAAGTAGATCAGTCAAATGTTGCATCAAAGAGCAGTT [C/T] GGAAGATTTGTTGATGTTCTTGAACCTGGATGCCATTGCTTGCCTTGGTGTCTTGGTTAT
4230 CaTSNP7197 CCACAGCATTGAAGAGTTCGACGAAGCACTAGAATCAGCAAAAAGATAAACTGGTTGTGGT [A/T] GAATACGCGAGCAGAGACAGTTCCAGAGAGCATAGAGATATATCCTTTCTTAGTTGAACATA
4231 CaTSNP7198 GTTAACGTTAACGCTCTTCTTCTTGAATCGCCACCTCCGAATCCCACCGGAGACCAGAA [C/T] TCAGTTAGAGGCGCAGGTAGATTGAGGTCAAATCCACGGTGGCTGACGGAGGAGGAAGCG
4232 CaTSNP7199 CAATAATCATGCACATGAACAAGTTTTTCATGTCTCCTTATAATGGAGTTAATAACTCTTA [C/T] GAGTTTAAAATGCAGGGTCAAAATATGCATAGAAATCCTTCTCATGAGAAATTCATACTTA
4233 CaTSNP7200 CATGTGGTCTTGAATACTTGGCCAATATTAGGTGGCATCTGCCACCTGGTATCGCGG [C/T] TCTGTTCGTAATGCTACTGTGTGCATTACTTTCGCAGCTTTTATTGGAACTTTCCGTTGA
4234 CaTSNP7201 TGGAGGAGCACCTAATTTGGGTAATTATAGCTTAGACCCTTTATCATGTGATAGAAAAGT [G/C] TTGAAAGCTGTTTTGACTCAACTATCAAAAATGGAAGAAATAACCCACTTAATAATAAT
4235 CaTSNP7202 CATCAAGTAGTAGTTCATGTTTAACCCACCATCTGCCCGAATCCGAACCCGAACCCGCA [C/T] GCAATCACCTCTATTAGCAAAAACATTGTTATCAAATTAGCCATTACCATTTTCAATGAC
4236 CaTSNP7203 TAGGCAAGAAGATTCTGGTGAACATCTGTGAATCAACAGATGCTGATGATGTTGGTA [C/T] AAGAGAATGGAAGCCTGTGTTACTCCCAATCGTAAAGTCTACGGTGATCTTAAGCCTTTT
4237 CaTSNP7204 GCCAATGGCTGTTCCCTTCCAGCTGCATCTTACGGTCTTAGGCATGGAGAACGTCGATTC [T/C] GGTCCCTCTTCAAAGCCTCAGCATGTTGTGCTAAATCATGTCTTCATAGAGAAAAACATG
4238 CaTSNP7206 ATAAGTTCCTAACATTTTCTTTGTCTTGTCCACTTAACCCAGTTTTCCAAACTACATT [A/G] GTGTATTTGAGGCCAGATACAATGTTGTTGGAGACAGTGAAGGAGAATTTAAGCCTGTAT
4239 CaTSNP7207 TGCTAGATACTTTGAATTTGATCCTGATGAAATCGATAAAGAGGATTATTCTTTTCGATA [T/C] GATACCCTTTTCATCGTGGATCAACATAATACTCTAAAGGATCTTGATCTTACAAAGCCT
4240 CaTSNP7208 TTGGGCTGAACCAGGTGAAGCCATGGCCACAATCTTGTACTGCAGAAACCGCGCTTGGT [A/G] TGACGAATGGAATGGTGAATTTGGGGGTTGAAGAGAAAAGTGAAGTGATTTGAGGAAATG
4241 CaTSNP7209 TAAGAATTTTATATCCCTGGGTGGTCCACATGCCGGCACCCTTCTATTCCATTATGCGG [C/G] TCTGAGTTGGTATGCACCCTTATTGACAGTGAATACAATTAGGAATCTACAGCAGCCTA
4242 CaTSNP7210 GAGATTACCAAGGGCTCAGCCATCTCAAAAACCCAGCAGGGATGGTCTTGTGTTGATAGACC [T/C] GCCGAAGGATCTAAGGCTGCATCGTGTGTTTCATAAGTGTGTTTCATCTGTATTTACC
4243 CaTSNP7211 CAAATCTCAAATTTGGTATGTTTGTAAATAGTCAGAGATTGTCTCATTGCAACAATACAC [A/T] GACCAACCTTTGCATTCCCACCCTTTGTACATACTTTCTTTCCCTTCACTGTTTTACC
4244 CaTSNP7212 GAATCATATGGGAAATCTTGGTGGTGGGAACAACAGGAAATGCATTTGGAATAACTA [A/G] CAGTGTCCAGGTTTTAGTCTGGTCTAACCTTACCACAAGCATTTCACAACAAGAAC
4245 CaTSNP7213 AGATACATTATCTTTGTTAGCATAGACAGCAATATAACTTAATGTGTTTCATCATTTCTC [G/A] CGTCATTCCAATCTCATTGACATAGTCGCTTGGAGCCTTTTGACGCTTTGACAAAAC
4246 CaTSNP7214 GGTGGTGTACTAGTATAGTCACCACTATACGAACTTCAATCCCCTTTCAGTTTCTCCATC [C/G] GTCAATAGCCCTTGGGAGAGAAAATGTTGATGCCGCGCTTAGTACGTTGACGCTCGGT
4247 CaTSNP7215 TGGTGTCCATCCTTGCCCTTGCTTTTTTGGAAACTGCCTGTTTTTGGAGGCTAGGTTT [G/A] ATGGTGTGGGGGCATCATATTGGCATCTTTCATGACATATGCTTCCGAACATCTTGCT
4248 CaTSNP7216 TCTTCAGGCTGCTTATTTCTTCATCCACTACCTTTTCGCAAGCCAGACTGGACATGTAGG [T/G] GCTTTGTACTCGGCATTCTTGCATGCACAGGGCAGCCGGTGTCTCGGTGCCCTCGCA
4249 CaTSNP7217 AAACCTGTAGATGACTTGACTCCTGAATCTCTAGGTTGGGCAGGATTGGTATATGAGCA [C/T] GTCCTTGGTGAAGAAAAATACATTTGTTGAAAATGTTAAAAATCCATTGTCTTGCACA
4250 CaTSNP7218 TTGCATTGTATCGGGGGCGGCACAGCTAAATAACGCGGAAGACGGGCTTGAACCACGG [A/G] TGTGGCGGATCTCAGGTATGGTATCCTCTTCATTGGGTCAACCACAAGCATCCTTGGT
4251 CaTSNP7219 CTTAAAATGGCAACCACTGCAGTGAACCAGCTGTCTCAGGAGCAAGAGGTTCAATATTA [G/A] ACTCAGAGCCACCCTTTTTGTTTCACTGTTACCTGCACCATTTCCTCCAACCTCATCAT
4252 CaTSNP7220 TGCATATAACAAAACCTCCACTCTCTTCCAGATGTTAAAGATCCGTTGAGAGCTTCTCC [T/A] GCTGATTTTGTATCATCACAACCTGGAATTGAAACATCTGCCCCAGAGCTATTGGAGCAA
4253 CaTSNP7221 TTTAATACTATCAAGATCTAGAGTTCTCTTTTTTCAAATCAATTCTCATAAGTCCACAGGA [A/G] AATGAAGGAAGAAGTGAGCATGTTAAAGCCACAAAACAGCAAGCAACAATACTTG
4254 CaTSNP7223 ACAAGCCTTTGGATTAAACCGAGCTTTGATCAAAGGATGCGAGAAATTCATGTACTGCGC [G/A] TATCTATGGAATGACCCAAAACATGTTTCTACAGCTCCATTACCTTGGCGTCCATATCA
4255 CaTSNP7224 ACTCAGATTGTGAAGTTGGGTTGGAGAGTCAAGAATGAGTGGTTTTCTCATTCAAGGATG [C/A] CATGGCTTCAACTACATCCTTGGTAAATGTCTTTCTACTCTCTGATGATCCAATCAACAC
4256 CaTSNP7225 TCCTGCCATGTCATGACTATTATCTTTCAGTTCGGTACATCATGATTGTGTTTACCCTC [A/G] TATGTGGTTATTACGGCTTTCCGGATCATGAGACGCCCGCTCCAGTGTGTTTTCTAACTGGG

4257 CaTSNP7226 TTAAGATTGTTATTTTGTATGTATCATCAACATTAGGTGGTAGCTGTTGAACTGGTGGAC [A/G] CGGACCAGTGTAGGTGCGTCATGCTTGAAGGTTAGGTTTTGTTAATTCGATTTAGTCAC
4258 CaTSNP7227 GGTAGAGAATACAAGCATGGTTCGTGATATTCCAGAATCCCTTACTCGCCCATCAAAGCT [C/T] ACTAGATTGAATGATGGAAGGGGCGCTCTCTTTCTGCTGGGACTTCAAACATGCCTGTC
4259 CaTSNP7228 TTTCTTTGGAAAGCTGGACTTGACTACAGGCATGGAACCTGGGCATGGTGTAGGAGCTGCG [C/T] TGAATGTTTCAATGAAGGCCCTCAAAGTATCAGTTACCGTTATGGAAATTTGACCCCTCTAG
4260 CaTSNP7229 GATCTTCCTCCTAGTTTTTCGGACCGGTGTGACCGACAAACTCGCCAACTAAATCGGTTTCG [C/T] TGTACTTCTGTCACTTTATCAGTAGGTAGAATGCCACCATATGAAGTAATCTTCCAAGG
4261 CaTSNP7230 ATCACCAATTTTAATACTAATACTAATCTCAATTTCTAATTTCTAATTTCTAATTTCTAATTTCT [A/C] ATTCCGATTCATCTTTTCACTATGGAGTCGCGAATTAAGACTAATCCCAATCTCGCAA
4262 CaTSNP7231 CCAGGCCGATCGATCAGGACTAACCTTACAGCAAGTGGACCTAGGCCTAATCCACAAGG [G/A] TCCTACCATTATGGTCTCATAAACACAACAAGACCATCATCTGTCTAGTTCTCCTGGT
4263 CaTSNP7232 AAAGTTTTCTGTGACATGAGTGTGATTTCTCTAGCTCCTCATAACCCTTCAAGTCTTC [T/C] TCAATCTCTTCAAGATCAAACATGGAACCTGATCTTTTCTAACATAATCTTTCCCATC
4264 CaTSNP7233 GAACTCTGTTTTGCTATTTTTTACCTGCAATGCCACCCAATACAAGTAATGGTGAAGTTAC [C/T] AGCGTCCATATTAGGACTATCACCAAAAATGTACCAAAAAGGAAGTCCCGCAGTTGCACTA
4265 CaTSNP7234 TCTATGTCTTGGTTTTGTTGCTTCTATTATTGCACCTTTCGGAGGATTCTTTGCAAGTGG [G/C] TTCAAAAGGGCTTTTAAGATAAAGGATTTTGGTGATAGTATTCCAGGACATGGTGAATT
4266 CaTSNP7235 GATTTCCGAAGGGAAAATGGAACTGCATCGGAGATCCTCGCTCGTTTGGTTCAGAATCC [G/A] AACCCGATTTCAAATTCGGATCGTAGATTAACAGATTGCATGGTTTCAGCGCTGAAATCG
4267 CaTSNP7236 ACGCTCCCCAAACCATGAGGAAGTTGTGCGGCTTGATGTCCTATGTA AAAATGATTT [G/C] GAATGAATATATTCAACTCGATTTATCATCTGATCAGCAAGCATGAGTACAGTTTTGAGG
4268 CaTSNP7237 TCCGATTGTGCCACGTAGGACGAGTATTGTTACGAAACCGCAGAGGATAGTGATCTTTAT [A/G] TTGTTGAAGGTTTTCTGGATCTGACGTCCAGTGGCAGATTACGTTTTGAGACGACGTC
4269 CaTSNP7238 TGGGGCAATTGGTGTGAATGGTTAAAAGCATTCAAAGGCTATATTGAGAATCCAGAATC [G/C] ATGTTGTTGTA AAAAGTAAATAGAAGACCTAGACGCACTCAATTCCTTCTTCCGAGTGATA
4270 CaTSNP7239 GCGTTCTTTCCAATTTTAAGACCTTGAGGCAAGATGAGTCAACAAGGAAGGATTATGTTA [A/G] TCAGCTTAAGATCGATATACTTTCATACATATGGCTACAATAAGTTTTCTAATTGGTGCCTT
4271 CaTSNP7240 CCCTGACCCTAGTGTCTGTCAACCTGTAAATTATAGTTTCTTTTACAGTTGTCTGGCA [A/T] TCATTGATGTCTGCTGTGTTTTCAAATTTTGTCTCATCTGGAACCTGAAGAGATATAGGG
4272 CaTSNP7241 ATGATGAGACATCTTGCATCTGTTGGAGAAACCTATGCTCAAACCAGCTTCGATGAAGCT [G/T] CTTGGAACGTTTGGCTATTAATCCGTCTCAAGCTTCTGCGAGTGGTCCGAGTCCGACCG
4273 CaTSNP7242 CATGGCAGTTGCAACCCCCACGCCAAAACAACGAGGTC AATCAACCTGAAAGGTC CCAAT [A/T] GGCATTCAAATTTGTATATTGCCTTATCAATTTGATAAACATCTGCACCATGTTCAACA
4274 CaTSNP7243 AGATATGTCCATACTTTTGCAGACTTGTCTAGCAGATACAGTCAAGCTTGTCTTCCATC [A/G] GGACTCCAGCTAACAGCATAAACTGCCAGTATGGCCACCTTCAGAAGACAACCTCACCG
4275 CaTSNP7244 TTAGTAATCTTTTGGAAAATCGGGCTTCTGAAATATCCTAGGATGATTTTTTAGCTGCTA [A/C] ATTAGTGTGTAAGATGTTGAAAAGTTATATTTCAATTTGTAATTTGTATTCAACTTCGTA
4276 CaTSNP7245 GGAACAGAACGTTGCTTTAGATTTAGCTCGGCGAGAGGCAGAGATGGCAATTCATGCACG [C/T] AATGATTTCTTGCAGTCAATGAATCATGAAATGCGGACCAATGCATGCAATTATAGCA
4277 CaTSNP7246 CAAAACCTTTCCTGTTTTCTGTCAATGGTGTGTTTAAACCAACAGTAAAAATCTCCTTGGCG [G/A] TCATGAAAATGGATTTTGAATCCCCAGCCAACCTGTGAGACCAGGCTCGCCAGGCAAA
4278 CaTSNP7247 TCCTTCGCTTCTAAGGAAATACATTAAGGTGGCTCTTCATTTCTGGGGTACTGGTGGAG [C/T] GCCCTTCCGTTGTTTCATGTCTATTTATGAGAGAGTTATGCATCTGTATTGGATCTGGC
4279 CaTSNP7248 GAGCTTTTTACTTAATAATGGGAAGGTGATTGAAGGGGATGCTTATGTGTCTGCAGCACC [A/G] GTGGATATTCTGAAACTTCTTCTGCTGAGAACTGGAAGGGGTTCTTTATTTCCAAAGA
4280 CaTSNP7249 ATCCGGTTCAGGCTCCCTTTCCCTCCCTCTCGTCAACCTCCGATCCAACCTACTCCTTCCG [T/A] ATATTCGGTTGGACTCGATCCGAAATCAACCTTAAACGTAAGACCATGACAACAACCC
4281 CaTSNP7250 GTTAACCAATTTACATTTGGAGACTCGGTGGGTGATTTACTTTGTCTACTTGAAGCAGATGT [T/C] GGAATTTGGTGGTTCAAGTTC AAGTCTTAGGACAGTTGGGATGCAATTTGGTATTTCA
4282 CaTSNP7251 TGTTTGTGCATCAAACCTCTATACTGTTCTGCTCTTTCCCAACCCAAAACCTGATCTAGCAA [T/C] TCAATTACAGAAATTTGCATTTCCCAAGCAAATCCCCAGGTAAGGAACATTTGTTCTCTCTG
4283 CaTSNP7252 GAAGGCTCGGTTGCAGGCCATTTTGTCTCAAATTCGTGCACCTGTGGAATGGCACCGCT [A/G] CCTGCAGGAATTCCTGGATACCATTCTGGGGCACCAAGACTTGTCTCTCAGCAGTTGTAT
4284 CaTSNP7253 ATGAACAACCTCTGTCCATTGTGTACTCACAACAGCCAATACCTTCCACATCTTCGG [C/T] AATCTCATGGCAGCAAGATCACCATAAGTGCAGTCTTCTTAAATGATAAAAATAGGTGGG
4285 CaTSNP7254 CCTGTTCCAGCTGCTGCAGAGTTGGAAGAGAAGAATGCCTTGGCTTTGGCCATCGTTCCC [A/G] TTGCTGATCAACAACCTGTCTGTCTTCAAATCAAGCAAATGGAACCACGGGGTGGGAAC
4286 CaTSNP7255 GTGTTTCAGAGGTATCTTTCGATGATCAGGTCTGGCCAGATTGACCAGGTAAGCACAAGA [A/G] AAGACATTTGCAGCTCTTGCAATCCAATGAACATAATGGAGAAGAATATAAATCCAACA

4287 CaTSNP7256 GGTGGAACAAC TAGGTATTGATCAAGCCATTCCTTCTCGTATATTGGAGTTAATGAAAGT [T/C] GACGGCTTGACAAGGCATAATGTAGCTAGCCATCTTCAGAAATATAGAATGCACAAGAGA
4288 CaTSNP7257 CGCCAAGGTCTGCAACGGTGCCTCTTAAGCGCCGGACTTCAGCATCCAAAGTCTCGTTCA [G/A] AGCATCTTTTCAGTTGGGACTGTTGTTCCAAGGATTGAAGCCTCAATTTGTA CTACTCGTTATT
4289 CaTSNP7258 AAGAAAGCATGGAACCATATGGAACCTCTTTGAGGCAATTCTACAACCTGCAACAGGATCT [G/A] CTGACATTGTTTTTGCATCTATGACGTGCACGAATGATTTCCCGATATTTCTCATCATGTA
4290 CaTSNP7259 TTCTATGTATGTTTTGTGGAGTCACTGCCTATGACTACAGTCATCTCGGTACGCACGTGC [C/T] GCCGTTTCTTTTGTATATCCTCTACAGGTACCTTAAACATTGGGCTATGAGGTAACATAT
4291 CaTSNP7260 TGCCTTCCTTCAGACATTCTCTAAAATCATTGAAAACCCAGAAAGCCTAACATTATAGTC [G/A] TTCTTCACCTTGAGATAAATTTAGTTATACCAAACATTGTTTCTTGAGAAGCTGTTTGGC
4292 CaTSNP7261 ATCAATGTCCAGGATGCAATATGAACAACCTCTGTGTCTCTTTTTAAAAGCAGGCATTGC [T/C] GGTGGACCTTTTTTCACCTGTGGGCCGCCATCAATCTTACCACCAGCAGTCAAAGTATTG
4293 CaTSNP7262 CGACCTCGATTTCGTCTTCGTCTCGTCTGCTGCTACTATTTGCGGAGGAGGAGGAATCCATCAC [C/T] GGTTTTATCGAGCATGAACGCAAGTTTACCCTTGATTTCGATTACCTTTTCCGAAATTCGAA
4294 CaTSNP7263 TGGCTTCAGGCCAGCTTCTCTGAAACGAGTTACCAATCTAACCGCGCCTCGGTAGTCACC [T/C] TCAACCATCATCTTCCAAGCAAGGTACCCAGTTGGCCCTCTTTTTTCAGGATCATCTCTCA
4295 CaTSNP7265 TGCCTCTCCTTCCAACACTGCAGGCCTTGAAAGAGCATGCCCTCAGGTCCAGTTATTCC [A/G] AGCTCTATCATCTTCCCTTTGCCCTTCATACACAGCATCTCCATTTTCTGCGTGAACCATG
4296 CaTSNP7266 GAAACTGAGGGCAGAACCAAGGCCAATGACCAGTATCTGCCTCCATTTGTTATCGTTGA [C/T] GAGAGCGGGAATCTGTTGGTCCGATAGTTGATGGGGATGCTGTGGTTACATTCAACTTC
4297 CaTSNP7267 ATCGATAAGAGCAACAACATCAGTGGTGATTATGTCCACATATTTATTTATGAAAATCCC [G/A] AGACCTCTTATTAGTGTAGAAGTCCAATCCTATAGCTTCCATGCTAGGACGTTGCACC
4298 CaTSNP7268 AAATACAGAGCATTATTTGAAGATGCTGTGAATATTAGTTATCATTGATGATGAATGCAA [C/T] AATTATCATCAAATCACACATCCAAGACATATTATTGCATCTATTTCACTTGCGCAAGT
4299 CaTSNP7269 CTAGTAACATAATTACAAAAGGATTATATTTCCATTAGAATTAGAATAGATTAGATGTCT [C/T] GTATAGCTGGCTCATCACTTCTCGGAGGGATCCTCCATGATCACTTCCAATGTCCGCC
4300 CaTSNP7270 CGATTCTCAGCTTTACGATCTGTTCAATCAGGTTGGCCAAGTTCGTTTCGTTAGGTTTG [T/C] AGGGATTTGGCTTCGCGTCTTCACTTGGTTATGGTTATGTTAATTTTCAGTAACCCCTCAG
4301 CaTSNP7271 TGGTACAATTGGGCATATAGCACCTGAGTACTTGTCAACTGGAAGTCTTCAGAAAAGAC [T/C] GACGTTTTTGGATATGGCGTGATGCTTCTTGAACATAAATACTGGACAAAAGGGCTTTTGAT
4302 CaTSNP7272 GCTCGTTCCGCCACCTGGTAATGAGAGCTAGTAAGGCAGCAAGCCAATCGTCGAAACAGC [A/G] GCACCATAATCTTCTGAAATTCAGCCATGCTAGTCATTTCCAAAACCTCTTCCAACCTCAC
4303 CaTSNP7273 AGCATTGTGAGGGCCAACGGCCGGTTTTCTGCAACAGACCCCGCCTTCAATCCCC [G/A] CGTTAACTTCTACACAATTTCTATTTGAGCAATTAATAATTTGTGAAGTATCCAGCTTCTG
4304 CaTSNP7274 TGATGGCTTTGACATGTTCCCAACATTATTAGTAACTGATGGTTCTTGATGATAGATCG [G/A] AGGATGGGCATACATGGGCATCCTTTGAGATTTCAGGCACTGTTTTATTCTGCCTTACTT
4305 CaTSNP7275 CATTGCTTCTATAGTCACCCGTCGGAATGTCTCTCAAGTCCCTGAGAGTTTATGACATA [G/A] ACATCTGCAGCAGAGTATAGTGAGGCAACCTGTGTGTGGATGGAGTCCACAAAACCTGTT
4306 CaTSNP7276 GCAGTGGCGAATTGCTAGCACCCATGAAGATTTCTGGAAGAGTTTGAATTTTGAAGATCG [G/A] AACATATCTGTAGAGCAATTTGAGGACATGTGTAGGCGTTATCCAAATGCTACAGCAATG
4307 CaTSNP7277 TTACTCTTGATGATGGGATCAATAGCTTTTTGTAGAAAATACGCCTGGACCTTGATCCTA [A/G] GGTTACTACTTTGCTTGATATTGCTGCTGATTTTGGGTATCCGATTTCAGTTGGCTAGTTC
4308 CaTSNP7278 AAGTGTAACTTTAATACCATAGTCATTGCAAGCAGCTACAACATCCTCCTGAGCTTTGTA [T/C] AGTCCCAAGCAGCGGTGAAGCGGCCAGCATCTTTACCAGAATCAGAATATCCAACCATA
4309 CaTSNP7279 GGCCATCTACCGAAGAAATTCAGAGACTGTTCAATCTAGCGTGTGCTGAGATGTTCC [G/A] AAGTACATATGAGGCTATTACAAAAGGCAACCCTATGTGGAATCAACTTCAAGTTCCAGC
4310 CaTSNP7280 CTTTATTATCTTCTCTGCACTATAAGAATCCTGACCACTAACTACTACTTCTGTTGATA [C/T] AGTCTCGCTTAGAATAGTCTCGGTGACTGTAACAGTGGTCTCCACAGTAGAAGCATGGGT
4311 CaTSNP7281 ACTCGTTAAATTTTCGGCTTCTTTTTTCATGCAATTTCTTTCTGATACGCATGTAATC [G/A] ACCATATCTGTCCACCCACATGACCTCAAAACTGACTTTGCTTCTTTCCCAAGAAATGTC
4312 CaTSNP7282 TTATGTCTTCTACTTTGTCCATTACTTGTCTCATCAGTGAAGATCGATTGAGATTCTC [A/G] CTCTTATCTCTCATTACCCAAGTAAAAGATCAATCAATATAACTTCTGCTGAGTTATTTT
4313 CaTSNP7283 GTTATTTGCATCAGCAGAGAGATCATATTGCTCCCATATAAGAATTTTCTTTGCCCT [C/T] GCAGCACTATCAACAGGAATCCATAAGTTCCACAAGCCTTCTTTCTTTGCTAACTCTTC
4314 CaTSNP7284 ACAGAAGTGGGATAAAAATGGTGAAGTTGTTGATGGACCAGAGGAATCAAATCGCCACT [T/C] TTCGATGGTGTTCAGTATGATTATGTGTTGATGTGGATATTGGAGATGGTATGCCTATC
4315 CaTSNP7285 AAGCTCAACCCTCAGCCAACAATGTTAAACAAGTATCATCTCCATCTTCTCCTTCAA [G/C] GACAGAATTTTGTGCGTAACTTGTTTACATTTCCAGTTATCGGCTTCACTCTTCCGCTC
4316 CaTSNP7286 TGTTTTGAGCTCATGGAATCGGATCTTCAATCAAGTCATTAAAGCAAATGATGACTTAAC [T/C] AAAGAGCATTATCAGTTTTTTCTTTATCAATTGCTTCGAGCACTCAAGTATATTCACACT

4317 CaTSNP7288 TGAACCGGGAATTCAAACCCCTCGTCGGTGTCTCACATCCTCGGTACTTGTTCGTCCTG [T/C] GAATGCTTGTATCAAGCTTTAGTACATCAGAAGTATGGTGTAGTCTGTCTTACA
4318 CaTSNP7289 AGCATTAACTGCTTTCCCGAAGGAATATGGTTTCTTGACACTCGGCTAGCTTTTCCGGC [A/G] GCTGTGCCAAATCTCTCTCTGCGTAGACTTTTGTTCATTATCAGCCGTTGATCTCTCA
4319 CaTSNP7290 TTGCTTTTGGTTTCTTTGCCCGGAATGGCAAGTATGTAGAGTGTCTACTTTCTGTAAGTA [G/A] GAACTGGACGCGGAGGGCCTAGTCACCGAGTCTTCTGTTTCTTGCAGTTAGCTAGCCC
4320 CaTSNP7291 ATCCATCATGTATTTGAAATATTGAGGTGCGAATTCTTCAAACGATTCCAATTCTGTCTT [T/C] GTCACTTGTTTAATAATAAATCTTTCATCTAATGACTTGGCAAATAACATTACTTTTC
4321 CaTSNP7292 GGGATGGACGGAGATGCCAAGCTCTAAGAACTGATGTTTCTCCACTAGCAGGAATGTGGA [T/C] GGTAAAGTTGTTTCATCTTTCTTATTCTTCTCCGTGATTACACCTTCCC GCCAGCTTTC
4322 CaTSNP7293 ATACATAATCCATTGTTTCATGCTCATGGCTATAAGCAAAGCAATGATAGTGTGGCCATA [G/A] TAGCAAACCACCGAAACCAGTTATGGGTGCTTTTGGGATCTAAACCACGATAAAGGACA
4323 CaTSNP7294 GATATATGGTATTATAGTATATGCCATGATGGGATTGGATTGGACAACATCAAAATCTT [G/A] TGGTATCTTTTCTTCATGTACTTTCACATCTTGTACTACACTTTCTATGGTATGATGACC
4324 CaTSNP7295 GATGATCCTCTGTTGAGCGTGTCTACTGATGGCGTGAATCAAACCCAAAGTATAGAAGGC [A/G] TGTGCTTGGCCAAATTCGGAAACACTATTTTACCATCATGAAGAGTTGAACGTTCAAAC
4325 CaTSNP7296 CTATGCGGACAATAAAGCTGTTGAGATAAGGTTGTATAGAGTTATTTATGAATTAATTGA [T/C] GACGTACGAAAAGCAATGGAAGGGCTACTGGATTCTGTTGAGGAACAAGTAACAATTGGC
4326 CaTSNP7297 AAGTGACTGAAGAACCAAGTCAAGAGGAATCCGACTCTATATTTACCGATGAAATAATCA [C/T] TGAATAAAGCATTGTTTACGGGCATTTTCATCTGAGAAGCGTCGAAAAACAAAATCCAA
4327 CaTSNP7298 GATCTCTTTAGTGAACCGTCTTCAAGACATTTTCTCCCGCTCGGCAGCCAAACCGCTAT [T/C] AACTTACCACAAGTGGCCGTTGTCGGCAGTCAGAGTAGCGGCAAGTCCAGTGTCTCGAA
4328 CaTSNP7299 ATTTTCTGTGACCTCAACGGTATAATAGATTACACTGATGGTTATGGAAGACATCTGCA [T/C] CTGTAACAGAATATCTACTTTGTAGCTTATTTTGAATTTAGAAATAGAAACAGGAAGA
4329 CaTSNP7300 TTTGCCTGCTGTGTGTCTTCTCACTAACAAGTTTCATCATTCCACAGATTAGTAACATTGC [A/T] AGTATATGGTTTATCTCTCTCTTCTTCCATCTTCGCAACTGGAATCCTCGAGATGAGA
4330 CaTSNP7301 AAGCAACCACACACCCGATCAGGGCGCACACGATAAAGAACATTCATTGTATCATACTTA [G/A] CATATCTTTTCCATCTGTAATTTTAGCATCTTAGTTTTTATTAGATTTTGATTCCTCC
4331 CaTSNP7302 CCAAACCTTCCATTGAAAACCCAGTTCCCTCGTCCCTTTTCGGATTTCATCTCTATAACCA [C/T] TTACAGGCCAAATCTCCCTCCACCTTGACCATAACAACCTATCACTAACATAACTAG
4332 CaTSNP7303 CGTAGCTTCTTGAGCCCAAGCACCACCAACATTCGGCGAACCATCATGAAGAATAACATC [A/G] AAAGCACGATAAACCCTTTTCATTCATCAGTTTCTTAATTCGCGACTTACATTCAGGTCTG
4333 CaTSNP7304 GGTGGAATTAGGGAACTGGAACCCCTCAGATTGGAGGAGGGCTAAAGCCAAAGAGGC [C/T] TGTGGCAGCGGTTAGGGAATTGTATGGATCAATTGCATCCATTACTGTGGCAGTGTGGC
4334 CaTSNP7305 TTATGTTAGCAGCCAGAGAGCGAAAAGAGTTCAACATCTCTTTGAAAGTATCTCAGGC [T/C] GTTGAAGAACTGCAGGGGAGCAGGCCCAAGCAATCAAAATGCTTCAGTTACTTCTGTG
4335 CaTSNP7307 ATGAGGTGGTGGAACTTAAGGACTTGTTCACCATCAGTGCCTAAGATTTCTTTAAGGGC [G/T] GGTAGGGACTAATTTTGTCTGAGTATATCTGTAGGAAGTTTTATTCCACCTTCAAAAAGT
4336 CaTSNP7308 AAATCCTGTCATGGCTCTGTTGCCTTTTTAGCCTCTGCGGTTGGACCAAGAGTAGCAGC [T/A] TCTGTGCTCATGCAGCATTATTAGTATTGTCAGACGATAATACTGGCTCGCAGACGGAA
4337 CaTSNP7310 AGATCATATTTGTCAACATTTCCAATGAACATCATTCATCATATCCATTGGATTA [A/G] CAGCATCTATATTATCAGCTAGAACATCAGCAGAGAAGAAGTTCTCAAAACTGGAGAAG
4338 CaTSNP7311 GCCATGATGGATTGCTCTTGGCATAATTAGTTTGCACCTGGAGATGATGGTGTGAAATTT [C/A] TCACGGTGACCAATTTTGAAGCACATGGTCAAAATTTGGCATCAAAAAGTGCAGCAACA
4339 CaTSNP7312 ACCGGCATCGTACATTCCTTTTGATAGATCCAAATTTGCTTGTCTTCCATCTTTAAGTGC [T/C] GAATCCCCTCTCAACTTATTTTGTGTTCTCTAACTTACCAGATTTTTGTACATCGAAG
4340 CaTSNP7313 GGAGGTGGAGAATAATTCTCAGGTGCAGGCAGTGTCTTGTATTCTGTTTCATATCCGGTACC [A/G] GCTCCTCCTCTGTATTTCCACCTTGGGAGCTTCTCTTTCTCTCTGGACTTTTTGGCC
4341 CaTSNP7314 TCTCAGATCTATAAACTTCTTCTCTTTTTCTTAAACATTCACAAACCCAAATCTTAAC [A/G] AACFACACTTCTTCTTTTGTATGGCTAATCAACCTGAATCTCCGATGCTAAGGGAAC
4342 CaTSNP7315 GAGTAGTGGTAGTAGTGGTTCAGCAGGAATCTGAGTCTTTGGTTAAGAGTGTGCTCC [C/A] ACTAAGAGAATTGTTTATACTACAAGTGGCTTAGTGATATAAGAAGTCTTATGAAAA
4343 CaTSNP7316 TCGTGTCTTTTATTGTTGGTGACCCAAAGGTAACGTGTTGTGTTGTTAATCTTGATGC [T/C] TGCATGGCTTCTCAGATTGTTACTATCAAGTTCTTGGAGGGCTTAAAGCAAGATATGGT
4344 CaTSNP7317 AGATAGTTGTTTGGACAGATACTCTGACGATGGTTTGGACAGAAGACTGGATAATGCCGAT [T/G] ACAGACGAAATAAGTGTGACAAAACCCCTCAAGGAGATTCTCAGTTGATTGCTTGAGT
4345 CaTSNP7318 ATCCGAAGGCCAGAGACATGGGAAGACGTGTGGTCTACTTTCCCTCACCCTCGTCTAC [C/T] GCTACAGATGAATAGATGATTGAATTTAACCAAGTCCCAATCTTGGTTGGACCTTTTCAT
4346 CaTSNP7319 GTAACACTGTCTAAAAGCATAGATAGAAGCAACTTAAAGGCAAGTTCACTGGAATCAAC [A/G] GCATGAGCAGCACCATCTGTCAAGACAACCTCGGAGATTTTCAACTGGATGCCCAATTAAT

4347 CaTSNP7320 CACCACATGGATGAGAATGAAAACCAGAAATGATGCAAAGTGCTCTGACGTCATTACAGC [A/G] TTAAATCCAACAACAGGCACCAATGCGGCCAATAGTGTGCCAATACAACAAGAGGTGCA
4348 CaTSNP7321 TCGGTGGTATTTGCTGGTTTTCTTCGGAATCTCTTTCACAGAGAATCATTGATTCTAAG [G/C] CAAAAGTTGTAATTACTTGTAAATGCTGTTAAAAGGGGATCTAAGGTTATCTATCTGAAAG
4349 CaTSNP7322 TATGTCCAAAAAGTCGGTTGTTACAGTCTTCTTCCAACGTTCTTTGGCGCACTGGTGG [A/G] TTCCTCACCAACAGTTACAGCCCTAAGAAGTTTCGTTCTCGCAACAAGAGGCTTTGTTTC
4350 CaTSNP7323 TGTGGTTGATGCCAGTGGAAGCATGGCATTGAACAGGATGCAGAATGCAAAAGGTGCAGC [A/G] CTTAAGCTTCTGGCAGAAAGTTACACAAGCAGGGATCAGGTATCTATAATTCATTCCGT
4351 CaTSNP7324 CTCTTAGCAAATGCAGGGAGATATGCACAGCTTTGGGGACAGCAAATAACACTACTGAT [A/G] CAATTGACACAGCTATCAAATGGGAGCATAAAAGTAATAGAAAGCATCTTCTTTCTCT
4352 CaTSNP7325 CACTGCAAGCATCTTGTGACTCTATCAGCAATTTCTTCAGTTGGTGGTATTCTTGGAGA [G/A] TGAATGTCATAAACTCCAGGTCCAATTCAGCTCCATACTTAACTCCATCACGGAACACC
4353 CaTSNP7326 TCGATGTGTTGTCAGACGCGGTTACAATGATGCCGTTGAGGAGCCTTTCAGTTTGGATC [C/G] CAATTGATACAAAATCTCAAGAGATTCATTCAACAAGAGAATTTTATGATCGATGTTAAT
4354 CaTSNP7327 CAAACCAAAGCTAGGAAAATGTCAAATCCACATGAATCCCCAATACCACTGAAGAACCA [C/T] TTAAAGCAACTCCAGCAGAACTTATGCTTAAATATTTTCCAAGTTGCCGAACCTGGTTC
4355 CaTSNP7328 TCTTCTATGTGATGATGAAAAGCAAGGAAAGTGAGTGGTGAATAAGGCTTTATTACTAGT [G/C] AGAGGAAGGGACCCCATTTTCGTATTGCTATCATCAACCGAATTTCAATTCACCTTCTT
4356 CaTSNP7329 TCATTTGCAAGACCTGTGATTCTACTACCTGTAACATTGTTAAGTTCCCCATACATGA [T/C] CAGAGGCTTCTCCAAGAATTTATGTCTCCATCAACAAACAAACCTATGGAAGTGCTCA
4357 CaTSNP7330 GAAACAGAAATAACTTAAGTACCTCACAAACCTAGCCACCCAAATAGGAAAATTTGGTTT [C/A] AAAGTTCTTCTATAGATCTTAAAGTTCTTCAGAGAAGATAGGTGTATCCAAAAACCAAC
4358 CaTSNP7331 ATCATGTAAGGTTTCAGAGTCATCAAAGCTTCTTCTACCCCGGATAGGTTGATACAGAGAA [C/T] TAGACTCATATGCATTGGAGGCTGGCATCTCAGGAAGAAGTTCAGTGTCAAATGAATGCA
4359 CaTSNP7332 TTTTATATAGAATTTTTTGGCAAATCAATCAACAATTCATCGATGAATCAACATATAT [A/G] ATGATCGGGTAGTTTTTCAGCGCTACAAATCGATTGCATGGGTTTAGAGAATGCCGGTGC
4360 CaTSNP7333 TGGCAGGCTTTGACTCCTTATATGCAATCTTCTGTGGGGACTGCGGTTCAAATAAATCC [A/G] TTGGGAGGCTGCTAGGACCTGCTCTGGGTGATCACAACCAAGGAACTTTTCCATCAATG
4361 CaTSNP7334 AATAGAGTGTACACGCAGTTCATTGATGTTGGAACAATGGTTTCGCCAACTGTCCATGC [G/A] CGTCGCAGCTTGTGTATCTCATCAACGACATGCCTCAGGAAGCAATGAACGATGCGATG
4362 CaTSNP7335 TATTTCTTAATGGCTGATTCAACCTCTTCAGGAAGAATGTGGTGTCCATCCCAGAACG [C/G] CTTCACTGCATGGGGCCATGTTGGCCTTGCAGTTTGGCTATGCTGGTTTCCATGTTGT
4363 CaTSNP7336 TGGAACAGTGTGACTAACACCATCTCCAGAGTCCAGAACAATACCAGTTGTACGGCCACT [G/A] GCATAAAGGGAAAGCAGGCTTGAATGGCAACATACATAGCAGGATTTGAAAGTCTCA
4364 CaTSNP7337 TATTTGTTCACAACATCCAACCTCTTAAGGAATGTTATTTGGAAATGCTTGTGTTT [A/G] CTCACGATCGTACCCTATTTATTTAGCAAACTGACGCATCACACCTTGAACAAAACAA
4365 CaTSNP7338 CATAAAGATAACCATAAGGCACCAACAGATGATTTTCATCATCCAACCCCATGGTGCAA [G/A] CCATCACGAGGATCCTTCTGAGTTTGGACCAATCATTAGAGTAGCCAGAATAGTGAAA
4366 CaTSNP7339 CAACCTTTGCATCTGGTAATCTTTTGGATAAAAGCTCCTTGAATGATTCTATTGTTTCCTT [C/G] TGACTGAACAATGCTTGGCAAGAGGCCCTTTGCTATCCAGATCTCCATTTTTCATCGGCAC
4367 CaTSNP7340 TGATGATGAGGATAAATGGTCTGTGCGATCCTCTGCTGTGTCGATGCGCACTGCAAGATC [G/A] AAGGTAACCTCAGGGTTCCGGCCCTACATTTAGAAGCTCAGAACGTCAGCAAAACGGAGG
4368 CaTSNP7341 AACTGCTCAGAAGATAGCGGATTTGGCTCGTCAGCGAGCACTGGACAAGAACGGCCGTC [A/G] CCGTTTTTCAGCTGCTGCTCTCGAGGCTGGATACCGATATTTATGGAGGAAAACCTGATGAC
4369 CaTSNP7342 TCTTCGTCGGAATTCGCTCTCGAACCACCACATAGGCCGGTTCAACTAGCCGGGTGAACAC [C/G] GTACCGGAAATCAAAAATGGTGGCGGCTCCGGTGGTTCGATTTGAAAGCCAAATGCAGCCGGA
4370 CaTSNP7343 CTACAGAATGGACTATATGGACTTTGTTCAAATCACCGAGAGAGCGGTGCAGATATCAC [G/A] CTTTCTTGCCTGCCAATGGATGACAGCCGTCCTCAGATTTTGGTCTAATGAAGATTGAC
4371 CaTSNP7344 ACCTTATGGTACTTTTGTGGTGTATTATGATGGTCATGGTGGACCTGAGACTTCTAGATT [T/C] GTTTGTGATCACCTCTTCCAACATTTAAAACGATTTGCGACTGAGCAGAAGTCTATGTCT
4372 CaTSNP7345 CGTGATACCTAAACCTTGATTTTATCAAGGAAATGTTGTAATGTTGTGGAGTAACATT [G/T] CATGATCTCATCTGCAATGCTGTTGCGCCTGGTACGGGTCGTGATGCCAATGATGCGTT
4373 CaTSNP7347 TTGATTTCTTGGTGTGAAACAATCGAACCAGAATGTTAGGGTTTTGTATCGAAAATTC [G/A] GAAATGAAGGAGATGGTGAAGAGAGATGGAGCGGAGATGGCCTGGAGATTGAAGCATT
4374 CaTSNP7348 ACAACAGCAACTGCGGTTGAATGGGAATAGCACAACCTCATTGACAACCTGAGATTCAA [G/A] CAAAGCTTTATCAAGAAATTAATGCAATAGTTGGAGACAAAAAGTGAAGAAAAAGATG
4375 CaTSNP7349 TCGAATGCTTTTGTGGAGTTCGCTGTGGCTGAGAGTGCAATGCAGCACTGAGCTGTAG [C/T] GGTGTGATTTTGGGTTCAATGCCTATAAGGGTAAGTCCGTCAAAGACACCAGTCCGAGCT
4376 CaTSNP7350 TCTTTGAACCCTAATCTCCACCCAAAACCCATTTTCCGGGAATATTTTCTCCCGAAAAA [T/G] AAGAAAAAGAAGCTCAAAATGCAGAATCACAGGCTCAAGCAGCAGCAGCAGCAACAACAA

4377 CaTSNP7351 GGAGAATCTCGACTCCACCATGCAACTTCTATTTATGGCTTGCCGTGGTACGTTAAGGG [T/A] GTTGAAGATTTGCTTAACGAAGGCATCGATGTTAATAGCATTGATCTCGATGGAAGAACC
4378 CaTSNP7352 TATTAAGCAAGGATCTTACAACCTTTCTCTTGTACGAACCAATTTCCCTTCCGAAGCAA [T/C] CTTAGGAAAGGCTCGTAAGTATCTTCGTCCGCAAGGGTGTGTGCATGAAACAGTCTTGCT
4379 CaTSNP7353 GTC AATTGCTGCTGCAGTGTGTTGCGCCATCGCCTGTCGGTGGCACCAGGACACCGCGT [G/C] GAGCAGAAGATGTCGTTGACGCTTTTCATGAAGTACGGACTTATGGTGAATGTGCATTCA
4380 CaTSNP7354 GCAGTGACAGCGCAGTAGACTTGAACCACAAATGTAGCTGTAGCAGTTATAGGCAAAATCG [G/C] ACGAACCTGATATGCGTGATGATTGAGCTAAAAGCATTACTATTTTTTTCAAAGCTCAAA
4381 CaTSNP7355 GTACATAGCCGAGCTGGAAGAAATGTAATGCTTTACAGGTAGAAGGGTCTGAAGTGTG [G/A] GCTGAGCTTGAGTTTCTTAACCAGCAGAATCTTATCCTGAGTATGGAGAATAAGCACTC
4382 CaTSNP7356 CTATACTGCTGAGCCACTAGAAGGTATACATAAAGATTGCAACAAAAGCTTGTAAATGG [C/T] GGAGAAGTTGTATGTGGGGTGAGACAGCTGATACATCTGATGTTTCAGCAAACAATTTGG
4383 CaTSNP7357 TGGTTC A AATGCAATTAATGCACCTAATTTGTTACTGAAAACAGCCAAGCCAAAGCACA [G/T] CACAGAAAGAGAAAGCTCTGGATCTAAAGATGACTATGGAGAAAGATAGTAACAAGAACC
4384 CaTSNP7358 AGTAGAAAAGAAAATCTTTGTCTTTGCAGAAAAGCTCATGATACCTTCAACATGTTGCAG [C/T] CGAAGGAAGTCTTTGTGCTGCGCTCTTCTGAATCAATGGCTCGATCTAGAATGCTGTTG
4385 CaTSNP7359 AAACGATGAATGATGCTGGATGGAATCCAAGACTGAATCTTGATCATTTGTGACAAC [A/T] TGGATGGAACCTGAATGTGATAAACTCATCATGGCTTCCGTTAACAAGAATTATGTTGAC
4386 CaTSNP7360 ATTAATTGATACATCGTTCTCTTTTATGTTGATAAAAAGATTGCTACATAATTAATCTTC [C/T] TTGAAATGCCTTTCAATTGATCCGAGAAGAGTGAATTAATATAATCTTGGGGACCGTGA
4387 CaTSNP7361 AGACCACGGCACTTCAAACCTTCTCACTCTCTTACTCATTCTTTCTCACCTAACCTTTCT [C/A] TTCATCTTCACTCTCCATCTCCTCCGATCACACCCTCAGAATCATGGGATTTCCAGAAAAT
4388 CaTSNP7362 GTGGGAAACTTGGTAAGCCAGAGATCTTCTGCCTCAACAGATGCACGCTATTTCCGCA [A/G] TCTTGGATTGCCAGCAATTGGGTTCTCACCTATGGCAAACACTCTGTCTACTCCATGA
4389 CaTSNP7363 TAAAGTTGCAAAAAGTCCCAGTTTTCTTTGGCAACCCCATCGGCACCGCTGGGATTCCT [T/C] AAGAAATCACTGAAGACCAATCGAGCAAAACTTTTTCTGCACAAGCTTGTATAAGGAGAG
4390 CaTSNP7364 AAAGATGAGCTTCACTTGGGATGCAATGAGTGTGAAACCCTGGAATGTTAATCTAGT [G/A] AGTCAGTCCCTCCATATACTCTCTCACTTTTGATGAGTTACAGAACCACCTTGGTGAATTT
4391 CaTSNP7365 TAGGATGGGCTCTTCAATGCGCTGCTCTCTAGTGGCTTGCAAGTTCTCAATGACCCCTTC [T/G] AGATAACCAATGGCAGCTTCTTCTCAGAATACTGTGAGAAACCATCACAGCAAAATGT
4392 CaTSNP7366 AGAGGGACAATTGAAGGGAATCTTGGATACACAGATGAGGATGTTGTCTCTAATGACTT [C/T] GTTGGTGATTCAAGGTGAGTATCTTTGATGCCAAGGCCGGGATGGGCTTAGCAAGTCC
4393 CaTSNP7367 ACCACAAATTAATGGAACCAGAATTAACCAACTAGCAAAAATAAGGGTTATGACATTA [C/T] TATGTGTTGGATGGTGA AAAAGGGAAAAATATCAAACCTGACGCTAAGGTGTTTGATAAA
4394 CaTSNP7368 TGCTGTGTC AAGATTAGAAGCAGCATTGGCATCAACAGACATTAGAACCCCAAGAATACC [G/A] GTCATTTCCAATGTCAATGTCAACCCGCATACAGACCTGACACAATAAAGAAGATATTG
4395 CaTSNP7369 ACGATTTAAATCCAGATCCCAGAGTTTTTCGCAAGCTCGTGACAGATCAGCAAGTTCATC [A/C] TGCGAAGGCTCTATTCTAGCACCAACTTCAACTTCATTGGAGTATTCTTGCTCATCAGAA
4396 CaTSNP7370 AACTGAGGAAGGTAAACCCCTTGTGTTGGATGTAGTGAGGCGAGTTGAACACCAACTATT [C/G] ACCGACGGGTCACGCAACAAGGAATATATTCCAATGTTGGGCTAGCTGATTTTAACAAA
4397 CaTSNP7371 ACAGGATAGAAGAAAACCTGAAGAATGTTATGGATCGTCAATTTGGGAGATAAATATCCAAT [C/T] AAAGTGCACCTCCTGTAGCTAAGCTTGCTTCAAATGTCTAGCACCTGAGCCCAAAATG
4398 CaTSNP7372 GAAAGAAGATGTGCCATATTGAGGTGGCGCAGAGGAATCCTGTGTATATCGTTCTTTCT [C/A] CGAGCGCTCAATATATTAAGTCTAGTGTGCCTTGTACTGGATAGGTATTTCCATCAAG
4399 CaTSNP7373 ATCTAGCCAAGTTGCAGTCACTTGTTCGCCGTGGATTAAGAAGGCACAGCAGCCACA [T/G] CAAAGTGCCAGAGAGCTAGTAAAGGAGGCACTGCGCCTAAATACATCAGATAACCTCACT
4400 CaTSNP7374 ATTTGCAGTTCATGTATCCCATGAACATCCAACCTCCATAATTGGTTCAAGGCCTGGACC [T/C] CTGTTGGCTGGCTGTGGATTTTTCAGAGCCGTAATTAGTGGAAAAAGGCCCTTGCTGCA
4401 CaTSNP7375 AAATAATGGA AACTCTTCTTTTGTG CAGAGTAATGTGTCAGTGGAAAATGGAACAAGCTC [C/T] GATGTCATCGAGACTGAGGCAAAACATTGAGCTGATAATAAGAGAAGCGAAGCGGTGATT
4402 CaTSNP7376 TTCATGTCCTTTTCTATGGACGCAGACAGCTTTCTTTATTGCTGCCAAGCTTGTGGATGA [G/T] GTTATTGTGTAGCCACTGTGATACCAGCAAGCTTTCCATACAGAATCAATCCACAAATC
4403 CaTSNP7377 CCCATAGTTTTAAACTCCAGCAGAAGGATTCAATTC AATGTTCCAAAACGCTTAAAGTTC [A/G] CCCTTAGAAAAGCTTCCATCTCAGTGCATTTTCATAATATACATATAATCAGTAGGTTGA
4404 CaTSNP7378 TGATGGCACC GGGTTCCGGATTACATTCATGTTGTTGATTTAGCAGATGGGCACATTGC [C/T] GCATTGCTTAAACTAGAAGAAGCTGATATAGGTTGTGACGTTTGTAACTTGGGGACAGGA
4405 CaTSNP7379 GATGAAGTTTATGATAAGTTGGCATTGATATGGAACACATTTGATGCTTCTTTGCGCT [G/A] GAATGTTGAGCGGACGGTGA CAATGAACTCGTTGGGGAAGACATTTCTCTTGACTGGAT
4406 CaTSNP7380 GAATAACACCTCCCTCTACTGCTAGAGCTTTATTAAGACCTCTGACAGAAAGTCTAC [G/A] GTAAC TGTCTGTATGGCGATATCAAATTTACAGCAACCACGATGATGCCAAAGTGGCG

4407 CaTSNP7381 AGTAAGAAAGAAGAAGAGTGTGTTGTACGAACTTACAAAAGATTCAAACCTTGACAC [T/A] GTGCGAAATACTCCCCACCTTCTGAATCTACAAATCGACGATGGGTCAAGGAACCTCCCGG
4408 CaTSNP7382 ACCAAGAATTTGGGCCCAACACCAGTAAACCTGGGCCATATTGGGCCAATTCGAAAGG [C/T] GTCAATTGTTTGCGAAACGCAGGATTCTCAACTGAATACATAAAGCAAAGCTCTGTCTC
4409 CaTSNP7383 GCGTGAACGTACCTTCCACTACCGGCTTCATTGTAATAAACATTGATACGCTCGAGCTG [G/A] AGATCGGAATCTCCGCTGTATTTCCAGTGTGATCGATGCCGTGCTCGTCGCATATAACT
4410 CaTSNP7384 CGCGTGAACCGCGTGATTTTCGTAGTTCTCGATTCCGGTCGTCGTACGGCGTCGTTTTAAG [C/T] CGGTGATTTTCGTTCCGTTTGCAAACGTCGTCGTATCGGAGGGTCGGTTTTCCCGCGAGG
4411 CaTSNP7385 GATATAAATACCTCTAAATGTTTGCCTAATTGCCAAATGCTCTAAAGGGCAACCTTTCT [T/G] GGAGGAACAACCACATCTTGTTCAGGAAATGCATTTTCGTGATATGCTTACCAGTGAC
4412 CaTSNP7386 CCTGTCTATTTGGTTCATTGAAGCAGAACATCAAGATCCTACTTCAAACCTCTTCTTTT [G/A] TGGTCAATGGTGGTCTGGTTGTTCATCTATTGCTTTTGGCGAGGCTGAGGAAATTGGC
4413 CaTSNP7387 AATTGACCTCCATTGGACATCACGGTCCCATCAAACACACACCCTGGCCAGATTCTCC [G/T] CCTGAACTCCCATCTAATGAAAAAGTTTCGCTGGCACAGAAGAGCAACCGAACCAAGTAC
4414 CaTSNP7388 GCGACGGAACATGGAATCACCTCCGAGGCTAAGTCAGATTGTGGATAGCAGCATCTTTT [A/G] TTCTGTTAGTAACTCTAAAAATTAGATCAAATTTCTCAACAGCCATAACAGCACAAAT
4415 CaTSNP7389 TGATTGTGATGATTTCAAGGCCAAACTTCTTTGTACCAGGACAAGCCAGCAATTATAAA [T/C] GTGAATATAGGTACAACCTGTGAAAGGAGCTGTGGATGATCTTGATCTGGTCATACAGAAG
4416 CaTSNP7390 AACCGAGAAGATTTGCGTTTGCAGCTGACAACCTGATGGGAGAAATTCACAATTTCCA [T/C] GAAGCATTGACAAAGAGCAAGGATGCATTTGAAACATTTAAACAAGAGATTGAGAAGACG
4417 CaTSNP7391 ACCACCAAACCTTCTAATTTCTCAAGGGAGAGCACCTAATTTGGTTGCTGATGCTGAACA [T/C] TCTCAAAGTGTAGATCAGGGACATGTGAATTGTATACCTCAAATAGAAAGCCTGTCACA
4418 CaTSNP7392 ATTTAAGCTCAATGCACAGCAGTCAGTGGTCAAGTACAGAGAGGGGATCCCAAGTATCG [T/C] GAGGCATGGCAGCAAATTTGCAATATTAGTAGACTGAGTTTAAACAAGGCTCTATGAACGC
4419 CaTSNP7393 ATGTGTTTTACTTTGATTCACATCATGCAGATCTTGAGAAGCAAGAAATAGAAGAGACCCA [C/T] CAAGGAGAAGATGAAGAAAAACAAGAAAGTTTCGAACTTTCTTCATATTCTGAAACGTTG
4420 CaTSNP7394 AGTGACTGTTCTTCTGCTCCAATTGCACATTGGGAAGGGAGGCAGCCTTCTCTCATCCT [C/T] TGAATAAAACGCCCATTTGTGAAAGCTTCTGCCAGCGATATCTGAGTGAACCTTTTCCAAT
4421 CaTSNP7395 GATAAGAAACCTTGACAAAGGATCAAAGTTAATTTGCCTGTCATAGAAATAGGATTTAAT [C/T] GAACCGAATAATCGCGATGAGACAGCGAAAAACAGGTATGTGCTGCAAATCAGGATCATAG
4422 CaTSNP7396 CAATGGCCCTGGAGATCCATCCGCTGTTCCCTTATGCTGTTGAAACAGTGAAGAATATTAT [T/C] GGAAAGGTGCCTGTTTTTGAATTTGCATGGGACATCAATTGCTAGGCCAGGCTTTAGGA
4423 CaTSNP7397 GACATTCCAGAACAATTTCAATCAGCCGAAGGCTTCCGGTGAAGTAGACAGATCCTCGGT [A/G] ACAAAACAGGTTTCTTCAAGGGGGACTGCATCAAAGTTCCGACATCTACAGCTTTGCGG
4424 CaTSNP7398 ACAAGCAAGATAAGCTTTATGTGACCCCAAGTTCAACCTTTTTTCTCGGATACTTTG [C/T] GTTTTAAACATAGGTTTCATATCAAACCTGTTAATCGTGAAGGGGATCAAGGTTGATAGTCA
4425 CaTSNP7399 GCTTACTGTAGGCCTTTGTCTAGCCAAAACCTTTTCAAAATCTGTTCTCGTAATAGGGGG [T/A] GGAAGGATCTTAGAAGCAAGTCTTTTGTAGCAAGATCCTGCATTGTAGTTTGAACCTGCC
4426 CaTSNP7400 ATACATTGATCTCACTTGACTTTGCTGTAGATATGGATGTTTCTAAAGAGTCTTTGCTCA [G/A] ATAAATCTGGCAGCCAGAAGTGTGTTGCTCACTGAAATTTGAGGAGCCGAACCTTGGCATTG
4427 CaTSNP7401 AGATTGGACGGCAAAAAGAGAAGATGCACAGCCACTATGTTTTGAGGTGACTGAACGAAC [T/C] GATAGAGGGTTTGCAGGTTGGTGGGGACGAGAGAAAGACGGGTCTATGCCTAACTTTTTTA
4428 CaTSNP7402 CCTGTTGAAGTTACCTTTGAAATACCTATAACCCCAAGAGTTATTAGCCACTGAAAGGCT [A/C] GTGCAGTCTTTTGGTTCATCCCTATATCAAATCTCTATAATTCACATAGTTTCCCTT
4429 CaTSNP7403 GACCGAGGAGTATTGCGATGGAACCTCGCTGGAAGAACGGAAGGTTTTCTCTCAGGT [G/C] GCCCTCACAAATCTTTCCAGCGCCGTCGTCGTTTTAAATCTGCAGTCACTTCTCCCC
4430 CaTSNP7404 CATCACAAGCATCCTATGGCTAACTAAATCATTCTCACAACCTCGAACCTTTTCTCAAAC [C/T] CTCCACGCCAAACACGGCCCTATCATCACTCTCCGTATCGGTTACGTCCTTCCGTTTTT
4431 CaTSNP7405 ATTTTCGATAGATATGGCTGAATCACAACCGGTCGCCAGTGATGAGAACAACACTACACAT [T/C] GAATAGAGCCACATACATTTGGTGTGGTGTGGACCTGGCTCAGGTATTGTTAGATTCA
4432 CaTSNP7406 CAGCTGCTAACTATGTGAAAGCCGTCGACGAAGAAAGTTTCAATCCTGTTGAGCTTAACA [A/G] TTTTAAACGGGACAGTCAAATCTCCACCTAATGGAAACACATTATAGAATGGCATAATGC
4433 CaTSNP7407 CTAAAGAGATGCTCTCCCGCATCCCGATCCAAGTCTAAAGCAAAAAGGCTAAACAAGGAAG [C/T] TCAAAGGCTTCTGCAAAATCCACAGGATCTGGTAATGCAGCAGCGGGTATTCCAGCCAG
4434 CaTSNP7408 GAGAGATGCTTTGCCTGATTTGCAGGATATGGTTTCGGATGAGTTTGTGATCACTGAGGC [G/A] AAGGTGTGCTTCGTGGACTTGGTGAAGGCTGCGAAAGGGACGTTTACTGAATTTGAGAAC
4435 CaTSNP7409 TTGGTTTTTAGTGATAGAATCGCGGCCATTTGAACATTTCTATTATCTGATTTTACTAC [A/G] GTTTCTAATCCACTACTTGCTTTAAGAATGTCTCAAGTTCAATTGGAAGTTTTGCATCA
4436 CaTSNP7410 CAGGTTCAATCTTAGTAGATCTGCTTCAAATTTGCTCTCTTTGATATCAACACACCTAC [T/C] GAGGGACGCGAGGATAGTTCACGCGCATACACCCTCTCTCCGTACCGCTTTGTTTGA

4437 CaTSNP7411 AGCTGTAACGATCTTTCTCGGATGCCAAACATATCATTCACTATCGGAGACAAACCCCTC [G/T] TCCTCACACCAGAACAGTATGTTCTAAGAACTGGAGAAGGCATTACAGAGGTCTGCCTTA
4438 CaTSNP7412 TCCAAGCTGGAATCACCCCTCGATATCCCTTCTGCCCCCTTCTGAGTTGAAAGAAAGACA [G/T] ATTAAGAGACAGACTACAAGAAACACCTTTTTTATAAAAAACCTGAGATGAATTTAGGTAT
4439 CaTSNP7413 GCCCAAAACAACCTTTAGTTTCGGAACCTCAATATACGTTGAGCATCTCCAATGTAGTAAT [A/G] TTGTGTATACCAGGTCCAGTCTTCTTCTTAATCCACGTCACTATAGTCTTTTGTCTA
4440 CaTSNP7414 CATCGCTTCCAAGGTTACCTCTATTGCGTGAAAGAAAATGAGCTGAACATGGTGATAC [T/C] CCTGGACATGCTGATTTTGGCGGTGAGGTTGAACGTGTAGTTGGTATGGTGAAGGAGCA
4441 CaTSNP7415 AACCTTATGTTCTTCGCTGTCAGAATGCATCATCTAATGTTCTTCCGATATATCCCATAG [T/G] TAATAACTCTAAGGATAAGACCAAAAGGTCTCCAAAATCTAGTTGTTGCAAGAACCATAA
4442 CaTSNP7416 AACCAACTATATTTTGTGGTGTTCCTAGAGTTTTTGACCGTATTTGTGCTGGTATCAAAA [G/T] CAAAATTTTCATCTGCTGGATCACTGCAAAGTGCATTTGTTCAATATGCATACAACATAA
4443 CaTSNP7417 ACACATGGATCATCAAAATGAACCTGGCACAGAAAAGATGGGGTGTAGTGTGCTGCATC [A/C] AATCCTTCCAATATGTTAACTATGTCACAGTCCATGCAAGCAATCTCTCCATTTGTTAAA
4444 CaTSNP7418 TTCTCCTATCCATAAAATTTGAGGCTCATAAAGCTGCTGTTCTTTGTGTTCACTGGTCTCC [T/A] GACAAATCATCTGTATTTGGAAGTTCAGCAGAAGATGGTCTGTTGAACATTTGGGATTAT
4445 CaTSNP7419 AATTC AACCATTTCTGCAACGGTTTTCTGTATTTCCGTTGCCTGGTTTTTTCCGTTGCA [G/A] AGAAATGGCATCTTCAGTACTCTCCGTAGCTTCATACACTATCTCTCCCTCTGCTTCACT
4446 CaTSNP7420 TATCAGTGAGTTGTCCATGTCTGACTTTGAATTAACAGTTGTAGAAGAATCTGGGGTAC [G/A] TTAGGTTGATCTTCTTGCCCTGTGGGCATCAACTCCACAATATCACTTTTCTTGTAGTC
4447 CaTSNP7421 ATTAGTGAATAGGAATCCAAAGTGGTCAAAGAAGTTGAATAATGATGAAGAAGTGGATA [T/C] AACAAATTTGAAGAGGAAAATGTTCAAGTTGTGGAAGCTAGTCAAATGGTGAATCACTT
4448 CaTSNP7422 ACCCTACATACTCCAACATTTTAATCAGAAGGGCTATTAGAGTCTTTCAATTTGCTGATA [A/G] ACACAGAGGATCTTACAGCAATGCATTGAAGCCCTTTGTGTGTCCTTCTATTGTTCTTA
4449 CaTSNP7423 GTCACCTACACTATGGCACGCTCATCAAAACGACGCCGCTGCGGTTCCGAAAGCTTCTTCA [T/G] GAAGATCCTTCGCTTGTCAATGCTACAGATTACGATAACCGCACTCCGCTTCCAGTCCGCT
4450 CaTSNP7424 CGAATACTTGGACAAGATTACAGGTGAGCTTGTTCAAGGCTGGTAAAG [A/G] GCAGGGCATGCAATATGTGGTGGACATATAAATGGGATGTTTGGGTTTTTCTTCCACAGAA
4451 CaTSNP7425 ACCTGAAATATTAATAATCAGTGTCTTAATCTGAGGTTAAATTCGTCTGCAAAATCAAG [A/G] ATGACTCCTAAAGAGTGGTCAATTTCTAATCGGTTGTCAATGTTGAATTTTCCAGCTCTA
4452 CaTSNP7426 TTTATTTCTCATTGGCATATGATGATTAACATGTGTAGTAGGGTTATGAGTGATTATA [C/G] TAGGGTTATGAGTGATTGTAGTAGGGTTATGAGTGATTGTAGTTGATATATTATGCTCCA
4453 CaTSNP7427 TTCAAGGCCATTTGCCACTTGGTTTAGAAAATCCAAAGTAAACATGTGTAAGCAAACGTT [A/G] CTCCAACAAAATCGAAGACGGCCAGTTGCTTGATTGACTGTGGAAGCTAGTGTAGGGTCC
4454 CaTSNP7428 GAAATACAGAAGCACATACCCAGTACTCCAATCATCCGCCCGCTTTGCTCAATGCC [A/G] AGATGAGTATGTCAGCTTGCCATACCGTGCAGTCCCTGTTAAGTTTTTGTCTCCCTGTAG
4455 CaTSNP7429 CGTGGGGCACGTGCAGGTGGAATCCAGACATAATCCCTGAAGACCAAGATGGCAAAAT [T/C] GGCTATCTTACACTCCGCGCATCTCGAAGACTGCTTGAGCAAACTAATTCCTCTACTG
4456 CaTSNP7430 ACCGACCAGTTCTTCTCCCTTGTCAAGATGCTATGTCATCAAGGGCCAGTCTCGGCCCT [C/G] GCATTTCACTCAAATGGCCACTTAATGGCCACTGCTGGGAAAGATAAAAAATTAAGCTT
4457 CaTSNP7431 TGGTAATCAAACACAGGATCTTACAGTAGTCTTGATTGGATCATCCAAGGGGCTATTC [C/T] CGTCAGCTTCATAAGTGCATTTGTTGCTCATTCACAGGGACAAGCAGTTTTTGACGGAAAC
4458 CaTSNP7432 GTTACCTAAAGCTATTTCTCGCATAGATTCCAATTTTAAGCATGTTAAGGATATGTCT [C/T] TCTGCTCAACATGTTTTGGAGATTTCTGAGGGGAAGATAGTTGAAGTTCCTTTGGCACAG
4459 CaTSNP7433 AAGTGATGGTCATGATGATCATTTTACCATCATGGTCACAGTCAAGGACATGATCACCT [C/T] GGTGAAGATCACATTCATGAAGCGGTTATATGGATGCATATGGGCTTGGTCATGGAGCT
4460 CaTSNP7434 TACCGGCCTTAATTTCTTGTTCACAACCGAAAAGCAGCCTGGATTGGAGTCATTTCTCT [A/G] TATGGAATGTTCCGGTCAACATTTCCATAACATAAGCCCAAACTGTAGACGTCAACC
4461 CaTSNP7435 CCTTCAAGGAAAGCCCAACAAGATGACCTTACTTACCAATATGCTCCAAATGTGCTG [C/G] TATCCGAGAGATCTCCATAATAGACAACCTCCCAATATATACCCATAAAATTTGCCAAG
4462 CaTSNP7436 AACTTGGCAATGAGATGGATAAGTCTGTTGAAGAATCACGAGTTGTTGAGAAAGTGAAG [T/C] TGTACAAGAGATGGGTAGTGGAAATGAGGTAATTAAGTGAAGGCTGGTGTGATAAAAC
4463 CaTSNP7437 GTTGGTTGGTCATACTCAAATACATCTTCCGATTATAACTCCGCGATGCTCCACAGCC [G/A] ATGATATGGTTTTGTTCTTGTGAAATGGTATGAGAAGTTTCTTCAACAAATCAAGGG
4464 CaTSNP7438 CTACTTAAAGAACCCTAAAGCTAATGAAGAGTCCTTTGTCTAATGGATGGTTTCATTTCTGG [C/T] GATCTTGTGTTAAAGCATCCAGATGGATACATAGAAATTAAGACAGATCAAAGGACATC
4465 CaTSNP7439 AACAGAATCTCAAATATGCGAGTAAATATATTTCTTAGAATCTGATACCATAAATGG [T/G] TACCCTTTTGTTCGGGCTTGAATATTGCGGCGTGATTTACGATATTTTATTGAGCAAC
4466 CaTSNP7440 GTACGTGGCTAGATTTACCGAGCATTCGGACTTCATGTGCAAGCACAGGAATGAAGCAAT [A/G] CTTGATGGCAGCGACGTTAATGGGAGGCGGGTGAAGCAAAGCTTTAGTGTGAAGTGAAC

4467 CaTSNP7441 GGTGGTCGAGGAGAGTAGGGAGACGGAGACGGATGAGACGGAGATGGTGACGTGGCCTTT [A/G] TGTGTGAAACCGAATTTTTCGAAGAGGATCATGGGGCGGGTGTCCGAGTTTATTGTGAGG
4468 CaTSNP7442 ATGGTGACCTAGTGAAGATTGCAGTTGAGGTGGATTTCCGGATGAATGTGGTGGCTGCAG [T/C] TGAGGTAGATGAGGTGCAGGCTGAGAGTACTGAGGATGAGGAGTCTGCTGATATTGTTGA
4469 CaTSNP7443 TCAATCTAGAATCATGATTGACCTCAATCTCAGTGTGGCTCAGTTTTCAATGTTTGGTTC [G/A] ATATTGACAATTTGGTGTATGATTGGTGCCATTGTGAGTGGTACAATAGCAGATTATGTT
4470 CaTSNP7444 CACTCTATCTCCAAATTCGGTGAAACAAAGATCCGCATAATCTCGAAAATCATCGATTAT [C/G] TGAGAACTTAAGAAACCACCGTACTCATCTTCTAAAGCTTGAGGAAGATCCCAATGAAAA
4471 CaTSNP7445 TATGCTGGAGCAAGGAAGCGTGGGGACTATGCATTCCGTGACAAGGATTTAAGACAGC [C/T] GTCGATAACTATTTCCAGTTCATTGATGTGGGAACGATGGTCTCGCCTACAGTTTTTGCA
4472 CaTSNP7446 GTTTAGTTGAAAACCAAGACAATCATGAAGCTCGGGAGGAACATTACAAGGGCGATGATG [T/C] GTCTAGTGTGTGGCTCATGAAACACATGCAACTAGCACTGAAACTGAAACAATTAATTT
4473 CaTSNP7447 TTTGGCTGAGAACGGTTCGCTCGGACCGGACCCATTCATTTTCGGTTCGTATGCGGTTCCG [A/T] GTGGTAAAGAATGAATTGCAACCGGTTCTTCAATTCTCTGTTTTTCGATTCTACACTTGT
4474 CaTSNP7448 TGTCGATGTATGAATAATTGATTGATAGAATTGATTGTAAGAAAGGGATCGTGGAAACTC [C/T] AAATGATTGAGAATTGCGAGATTTTGCTTTTGTAAAGGATATCAAATAAGTATATTATC
4475 CaTSNP7449 TTGTTCAAAGGCTAGAGGAAACAATTTGCAAAGTCTAGGCAATAGCCAATATGCACCTG [A/G] TTCGTAGACTTCATGAAATTGACTAAGATTATATGATCATTTAGACTTCTTTCCTTGT
4476 CaTSNP7450 CTCTTCTTCCCTTTGACTTTGCGGGGGCCACTGGTGTGAGAGCCTTCTACTCCCATCTC [A/C] GCTCTCAGGTCAGTGTGCTCTGCTCCAACTCATTATACGATTTCCCATATCATCAATC
4477 CaTSNP7451 TAGAAAAGATAGAAAAAGAGAAAACTCAAATCGCATCGATGTGAGATGAGAAGAGAAC [A/G] ATTCTGACGCCCTGAGGAATTCACAGCTGAACAGGGTGTAAACTAGACGAAGAGATTC
4478 CaTSNP7452 GCTGAGCTGGTTGTGAGTAAATCAAGGTAGATGATGATGAAAGTGCCCGTGTACGGC [C/T] AAGATCGTACACACAAGAAAGAATGCAGAGAGGCTGCTTCTCGTTGTTCCCATGTTTGAG
4479 CaTSNP7453 ATTACCTCACAATATGTTTTGGTTTTGCAAGTGATAAACTGAACTAAATGGTAATGAG [T/C] TTATGACGAGATGCATATCTTAGTCTCTCCAAAAGCATATATATTACACAATCAGCAA
4480 CaTSNP7454 AGAGATTCACAAGGAACCACCATCAAAAGAACCCGATCCACCGTGTGCGCGCAACTA [T/C] CGTACCGGAAAAGTATCTCCGGCGATCGACCCACCATCTCCTAACTTTCCGCTTGTGGA
4481 CaTSNP7455 CACCAAAAGCCTCATTTCTAATGGCACCAGAAAAGATGGATCAACCAAAAAACCAATGAA [T/C] AGAGGAGCATGGACTCCAGTGGAAAGATCAAAGCTAGCTCAATGCATTCAAACCTCATGGT
4482 CaTSNP7456 AACAACTAAGTACATCAGCTATGGTGCCTTCAGAGGAACACTGTCCCTGTTCGTCG [C/T] GGTGCTTCTTACTACAATTGCCGACCCGGTGTCTCAGGCCAACCTTACTCTCGTGGATGC
4483 CaTSNP7457 CGGCACATACGTTATTGGAGGATCCGCTTTTGGATGGAATTTTCATCACTTTTCCAGCCGC [A/G] CATCTGTCTATTATGGTAGGACAAAGGAACAATTTGATCAGAAAAAGTGACCGAGTAA
4484 CaTSNP7458 ACATTGGCTCCATTTGGCGCTTTGCATTTATAGCAGCTTGGGGTAGCTTGTTTTTCTGA [C/T] GACTTCACTGTTTTGGTTTTGTGATGCTACAATATCTATAGAATGTTTGTTAATAAGCAGT
4485 CaTSNP7459 AAGAGCGATATCGTTGGTCTCACCTCTTCAATCTGCTCAGGAATCTGTAAGTAGAGTT [G/A] ATGAGGTGATGAAGAAGCAATGTATGGTCAATTTGTATGGAACGCTTTTCCATTGAAGA
4486 CaTSNP7460 CATACTTTGTGAACGGCACCGTTAACCTAATGTCAACATAGTCACCGATATGATAAGT [C/T] CTGAGGTAGGTGGTTAGGGCAATGGTTCCTTCTTACGGAATGGGCGAGAGAATGAATCT
4487 CaTSNP7461 CTGGCAAGCAATTTCTTTGGCTAGTTATTATCAATTAATCCTTGACAGACAAAAGATATTG [G/A] AAGATGATTTCTTCTTAAACAATAACAATATGTTACATTTAACGTTACATGTACCCTTTT
4488 CaTSNP7462 CCATTTCTCTGCTACAGTTAAAGGATTAGGGTTTTTCTGCAAATAACGATGTAGAGTG [C/A] AGTGTGAGGGTTTTTAATACGGTACTAGAAGCAGTGGTCTGGATGGGAATGGAAGGTT
4489 CaTSNP7463 GATCTATATGATGTTGTTGATTGTAATCCATTGCTGCCACATTAAGAGGAGTTGAT [G/A] CAAGATATGGTTGTGGATGGCAATGTGTGGTAGGTTCAAGTTTTGGGTGTTTTTCACTC
4490 CaTSNP7464 TTCATAACCTTGGTACTATAGTGTCTTATTGAATTTCCATATGGAAACAAGGTCATGTA [G/T] CTGTGAGATTAATGATGGTGTGATGAAGATGAAGACATGGAACCTATTATATAATAATT
4491 CaTSNP7465 TTGTAATAGTCCCAACCAATATTCTGAGGGTGTACAAATGTATGTTGCTCTTACGTTG [T/C] TCGCACTTTGACCACTCACTAACATCGTTCCCATTAGAAAACAACAACCAACAACTCA
4492 CaTSNP7466 CTGTCGCTCCGATACTCCGGACGGCGGATATTGAGCTTCGCGACGCTTTTCGATCTGTA [C/T] GACCACGACAAAACGGCTCATCTCGACTGAGGAACTTCACTTGGCGCTTAACCGCCTC
4493 CaTSNP7467 ATTCACAAAATAAGAAATAACTCTGTGCATAAAATTTCCACCAGCCATGTTTTAACCTTA [T/G] CTTCAAACCTTGAGGGGATAATTAAGATTGGAATGGGGATTGTGATGTGAGAGAAAATTG
4494 CaTSNP7468 AGTATAATAAGATCTTCCAGAACGTGGTGGACACGGGATTTCTGTTAGCAGAGAGTGCACC [G/A] TAAGATATGTAGTACTTCACTCTACTCCAGAATAAGGATCTTCTACTCAAATCACCACCG
4495 CaTSNP7469 AAAGAGCCGAAAGGCACATTTACAGCACCATCAAGCGTCCGCCGCTTGTGATGAGCGC [A/G] CCTCTCTCCGGCGATCTCCGATCCAAATACAACGTCGATCCTTACCAGTCCGAAAGGAC
4496 CaTSNP7470 AAATTTGAAAATAAATGCTTAAGCTGCAGTCTTCTCAGCTTAGCAAGTCTTGCCTAAC [G/A] ACAGCAGCCCTTAACTCTTTGCCAACATAATCTTGAACCTATCAAATCATTGAGGGCT

4497 CaTSNP7471 ATTACTATGATAATCAAGGTGATTATGATGATGATGGTGTGTTGTGAATCATCATGGTA [A/G] TCAAGATGAAGAAGAGGAAGATGATGAGTATAATACTAAGTTACCACCACATGAATTTAT
4498 CaTSNP7472 AGCAACACCAGATGCAAGTCCAATTGCGAACGCTCTCAACATAACCGGGCTTAGTATCAAG [C/T] TTCATGTCAAGTATAGTGAGTCTATTGTTCACTGAATCCATTTTTCTTGAAGATTCATTC
4499 CaTSNP7473 TCAAAGGTAAACCGCTCCTCCTCGCCGCCATTATGAAACTCACTCTCTCTTTGCTCACAG [C/G] ACAACGAAGAAATGAAAAGCGGTGAAGTTAGATATATGCCACCAAACTAAACCTTGTCT
4500 CaTSNP7474 TCAACTTTTAGTACAATTTAGATACACTCAGTCTAACAACATTTACAAGTCTTGAAGTAA [A/T] TATTACCATTTCATCTGCTACATTTGTGCTCCAAGAACAATTGCAATTTGTGCAACAACA
4501 CaTSNP7475 AGTGATCGTTGGCGGTAGTGCAAGAAGTTTACCCTAACAACAGAAATTTATCGCTTACG [G/C] GTTAGGTCTTCTATGGTTGATTCCTCTTCTCCTCCGATTTTCATTAAGCGCGTGGAGCAA
4502 CaTSNP7476 CCAGGAGGAGCAAGACATTAAGGTTTCTAGTACAAAGGAAGATAGTGCATGAGACATTGA [T/G] ATTATATTGCAATTAGACATGTCTTAATAAAAATTTGACCATGGCGTTATGCTATGCATTT
4503 CaTSNP7477 CATCCATCAGGGTATTACATGCTGTGAGAACCTTTGTTTACAAACCTGTCAATGTTCCA [C/A] CTTATGTCATCTGATATGTACCTGCTTTTGTCTGAATCTATTAGTGTGTTGCTTGGTT
4504 CaTSNP7478 TCAAAGTGGCCTTTAACTCTTCCCTCAGATACAAACCTTTTCATCCTTCCCTGGTTCTAATA [A/G] TACATAAGTATCTGTTCTCTCATTGCTCTTCTCCTTAATGCAAAAACCTTTGTTTT
4505 CaTSNP7479 CAACGATGAAACAGACTCAGTTCAAGCACCACAGATGAACAACCAGTTGAACTAAGGAT [A/C] CGGAGAAGATCGCGAAGACAAGCCAGACGACAGAGAGAATGGAGCTGTTTCAAATGGT
4506 CaTSNP7480 TGCATGTAAAAGGGTCTGAACCAAACCGACCGCAACAGGGTTCGAACCGGGTTTAAATGAA [G/C] CGGGTACGGGAAAGTAAATTCGATGAGTACGGACATGAAGAAAACAAGAATCAAGGCCAAT
4507 CaTSNP7481 AGCAGCTCCCCAAGAGGAAGTGCAGCAGCTACTGCAAGCATGAGGAGAAGGAAGACAGC [T/C] GGTGGCGGGGCTCTGGAGGAGCTGCAGGGACTATGCTTCAGTTTTACTGATGATGCC
4508 CaTSNP7482 AAGCTATCCATTAATAATGCGATAGAGTTGAGAATGACCAATCTTGATAATCGATTCCC [A/G] AGTGCAAAGTGTTGTCTTAGCTTCAAACAGTGATTGAAATGGAATTTCTCCTTGATAT
4509 CaTSNP7484 TGCACATCCAGCGCACTATAGTTCCCGCGGCGCACTCAAACCTAAACAGTCCACGTCACA [T/C] TCCGGCGCCGGCGCAACCGATTTAACATTAACGGCGGCGTAACGCGTAGAGAAATGCGA
4510 CaTSNP7485 TTTATCATTGTTGTATACCTTTTCTCTTAAGTTTTTCATCTTTGTTATTTGGATCAACAT [C/T] GTTAGTTTTTGTAGTCTATTTGGCGGGTTTAAATTTGAGTTAATAATTTCTAGAGAAAAT
4511 CaTSNP7486 TCATAAATTCATATAATACGAAACTGCTTTCCAATACTACACAGTTCAAGGTGACAGCAA [G/C] GACAGTAAAGTTTTTCACATTTGTTGTAGATCAGTTCAAGACTATTTATTTACTACTAAT
4512 CaTSNP7487 TGAGGGAGATACCGATCCCGCCCTTGACACCCAAATTGAATATATATGCCTTGACTTGGC [C/T] GAGCCAGCTGTCTGCAAATATTGTGGCCTACGTTATCTTCAAGATCACCACCATTAGGAT
4513 CaTSNP7490 TAAAAATGCTCATAGCAAAATCTGGCAATAGACGGAAAAGATAAACATCGGGAATGTTTC [A/G] AGACAGCCTAGATACTTCTCCTCAACCTAAACACATTACATGAATAGATTGGGCTTTTTGG
4514 CaTSNP7491 TGATGGAACAACAACAACGAGTTGACTTGCAATTACATTTGGTTTTTCTATCGGGTTTGG [A/G] TCCTCCGTGGCTGATTACTAATTTGAAATTTGGTCCCTCAAATCTATGTTTATAGATCCATATA
4515 CaTSNP7492 TCCGCAAATTCCTTAAATTTGTTCTGACTTCTGAAGCAACCACATGTAATCTAGATCCT [C/G] AACCAATATCTCAACATTCATTGATAAACTTGAAGGCTTTCAGTCTAACCTACTTCAT
4516 CaTSNP7493 AAACCTCATGTTTTCTTAAGATCACAATGCAAAGTGAACAGGCATGACAATAACCACG [G/A] ACTTCAGGTAAAGTACTAAATTAAGAACCAATTGCAAATTTGCTACAAGGAAAAACACA
4517 CaTSNP7494 ACTGGTCGAGAAACGCAACACTGATGAATCTCTGTAGCCTACTTCACACAGTTGAGGAAT [A/G] TAAACAACAAGCTTTCCTGTTTCTTCATTGAATTCATAGTTAGTTGCATCACGAGGAAAG
4518 CaTSNP7495 AAAGAGACCAAAGATATCGGCGTGAGAGATGGCGAGAGAAAAGTTCTGAGCGCTACCG [G/C] GCGCTGTTGAAAGCCACTCGAAAATCATTGCGCGGCGACACTTTGATGCTGAAAGGATCT
4519 CaTSNP7496 AATTCAAACCTCAAACCTAGTCAATACAATATCGAACACAACCTTTAGCCGACCAATTCAA [G/A] CATCTTAAAGCCTCCAATTCAAACATTTTTTTCAGTATAACATAATAATGAAGAAAATAAGA
4520 CaTSNP7497 CTGTAGAACCCCTCTTGCTCTTTCTGAAGATATTGTTTCCAAGTCTTTCCACAGCAGACA [T/C] GGGAAAGCTTATCTCTTTCAGTAAGGTTGTGAATGTTTCTGTTGGAGAAAAAGAGGACAGA
4521 CaTSNP7498 AAGGATTGGAAGTAGGACTCGAATGTGTGATTTGAGGTTACATTTGATGAAGGAGATTTG [G/C] GGTATGCCAACTTCTCTAAATAGGGAAACCCACACACTGCAGCATCTCCTGAGGCAATG
4522 CaTSNP7499 TTCTTCTAAGGAACAATTTGATTTCTTCTACTTTGTTTCAACAGTGCCAGGAGCATACTG [T/C] GACACAAAGCAGAGTTGCTGTTATCCGAAAACCGAAAACCTTCAGCAGATTTTCAGCATT
4523 CaTSNP7500 CTCCCTCGACTGCAGCTGAAGGACCGAGAGAGAACATGATCGGCAAGAGCAAGAGGGGTA [C/T] AACAGAATATGCATCGGTAAGAACTTCTTCCAAATCAAGAAAGAAAACCTTACCATCA
4524 CaTSNP7501 CACAGGAGCTTGAGGACTTATGTCCCTAAAGGCAAGTACCTTATCGTCTTCATAAACGAC [G/A] GTAGAAGGAATCTCCTTGTGATGATCTTGTCAAATATGGTGGGAGAATCAGAATCAGAG
4525 CaTSNP7502 TAAATTACCATGACAAAACATGAAGTAAAAAGCTTTCAGTTAGGCAACAGCTGCTAAGTAA [A/G] GACAGTCTGCATAATATTTAAAAGTTACAAGTGTCTTTCAAACCAACATATATTTGGATTC
4526 CaTSNP7503 TGAAACATGTTGTAATTTTTCTATCCCTTGCTCTGTAATTTCTCTTGGCGTGGATGCAAT [C/T] TCACATGCTCAAATAAAATCTGGTACTTGACGAGCATTTCAAATTTAATTTAGTGGATAT

4557 CaTSNP7536 GATTACTGTACTTTTGTAAAAGAAATCTCGTTTTGTGTTGTCTTAAGTTAATTTTCATG [T/G] TCATGTGTGTTACGGACAGAAAGCATAGCCACGTTATTTAGTACTTTAGCAATATATTTG
4558 CaTSNP7537 TGATAAACCTGCTGCAACGGATGCAGCTGCGGCTCCAGCCGGTTCGACTAAGGGTGTATA [T/C] GTACCTCCCAGGACAGAGCTGGTGCAGAGAGGACTTCTGGGTGAGACATGAGGCGGAGA
4559 CaTSNP7538 AAAAGAATATGGCTTTGTTGTGATAATTCTCGTTCCTATTTGCTTTCTCAATTTCTACAT [G/T] ACCTTTCATGTTGGCAAAGCTCGCAAGAAGTACAACGCTCTTTTATCCAACCCCTTTATGCT
4560 CaTSNP7539 TTCACAACATACCCTAAGGAAGTTTGTCCGCAACAAGAGCTCTCAGATTATGCCATCCGT [C/T] AACAACTTTTTCTCTGATCCAAAATAGACCAAATGCCAACTCTCTGAATCCCTAGAAAA
4561 CaTSNP7540 TTTATCGGAATTCGGATCAATAACAGATAAGAGCGTTGATTTCCCTACTTTCCGATCG [T/C] CTTACGAGGAAGAATGGCAAAGAGTACTTCAAACAAGAGCATGATCTTGAGAAAAGAA
4562 CaTSNP7541 GCAACATGAAGAAAATGAATAAGGTTTTGTGATGAACCTTCTATGTTGAATATGCCTTG [A/G] TCACTTTGTGTACTAACTGTTTAGAAAAGTGTGCAAAAAGTGTGGTGGCTGCCTTATAG
4563 CaTSNP7542 AGGTTGCAACATGTTTCTCAACATGCTATTAAGAGGTGCAAGCACTTTGAGATTGGTGG [T/C] GATAAGAAGGAAAAGGAACGCTCTCTATTTTAGTTGCAGAATTAGAATTTCTGCATTTTCA
4564 CaTSNP7543 GTAACATAAGGCTTAAGGGGAGCTGCTCCCCACAAGAAAGCCTACTATTCAATAAAATAAT [A/T] ATTCAGTTTGCACGGCTTTTGAACACATCAAGACCCATTTTCAGTGGGATCAGTTGCCTGC
4565 CaTSNP7544 GATAAAGTTGATGGTTGTTTCCATGGTTTGGGAGTGGAGAGAGGTGGAGTGAAGAGAGAG [G/A] GAGAGAGAAGGAAAATATCGAAGATGGGTATATGCTTTGGTTGCTTCGGTGGAGGTGACA
4566 CaTSNP7546 TATAATAATTACTCAAGAAAAGAAAAGCATCAGATAAACTGAAAACCAGGTTAAATACT [A/C] ATGTAATGTAACTTCAAGAATTATCTTTAGCTGGTGATTCACCTCAGTTGTTTCCCTTG
4567 CaTSNP7547 ATGGGCCTTCAATGTGAAATGCTTCGAGCTGCAGGATTCCTTGCAGGATCAATAGTACT [T/G] ATGAGAACTATGGTGACCTTATGGCAATCTAAAAGTGAAGACTGTGTTGTCTGTAATG
4568 CaTSNP7548 TGGAATTGGAGGAACATGCACAAGTACATGAAAAAATCTTGCAATAACTGAAGTGTT [T/A] CCTTGGAATCACACTAGTATTTGTGTTTTTTAAAAGTATTTCAATTTCTGTACCTAT
4569 CaTSNP7549 GGGTGGTGTGGTTATAAATCCAGGTTCTGCAACTGGTGCCATATAGCAGCATCACATATGA [T/C] GTAAACCCAAGTTTTGTCTCATGGACATCGATGGTCTGCGTGTGTTGTCTATGTATAT
4570 CaTSNP7550 GTGAAAGATAGACCCATTTTCAACTATTCTTTTCAGATTTGAGAAAAGAAATATTTTTGTG [G/A] TGAATGAGAGGAGATCTCTTCTTCTATTCGTGTGTGGTTGGTTTTGGTGTTCGATAA
4571 CaTSNP7551 GCCACAAGAGCTTTTTTTCGCTACTGGTATGCGTAACTCCAAGGGTTCATTTTTGATTC [A/C] CGCAACTTCGCTTTTTGAACATTAATTAACCTCCGCAAGACCAGCTTAGCTTTATCAAGA
4572 CaTSNP7552 TGTTATTGATCTTGCAAACGAAGTCAGCGTATTATTTTCAAGAACAATGAATTTCTGTG [C/T] TATCAGCACCAGACATTTCTGAGACTTTTTTGAAGCAAGCCCTTTTATTAGAATTCATTGGAA
4573 CaTSNP7553 AGATTCGGGTCAATTGAAAGCGGGTTTTTAAAGGTAACGTAAGCTTTCTTGTAAATCAGGT [T/C] TAGCAAACACGATGCCACCACGTTTCTTCTTCTCCCGTCCATGTTCAATGTTGCAACTT
4574 CaTSNP7554 TCTAAATTATTTATACAAATATCAATAAACTCCATACACAATGCTATTTCTGCCATTGT [A/G] TCGTGGCACTTGAGCTGCTTGGCCTCTGGCACAAGCACAACTTCGGTAACTTAATCTTC
4575 CaTSNP7555 TACCGTCGACAAATTTAAGTTCCATTTGCGATTGCTTTTTAAAATTTGTCAGTACATGCTTG [G/A] GAATCATTTGTATCTGATTATCTGACCGATTGGGGATTCTCTTACTAGAGTAGCCCCAA
4576 CaTSNP7556 TGGCATAATGTAGAGAGGATGGTGTATTTTTGGATTTTGCAGGTCCTAATTTTGTGTTGTG [C/T] GACAAATTTGCATTTGGTGTGCCACTCGCTATCTTCAAATACCCAAAGAAAAGTGTGTC
4577 CaTSNP7557 AACTGCTGTTGGACTGATTGCAGGTGGAATGCGGCAGCCGTGTCTCGTAAAAAGTGACA [G/T] AATTCGTCTATTAACATATGATAACAGCTGATTATGTAAGAGGCAAAATTTGTATGATA
4578 CaTSNP7558 AAGGCTTTGGTGAAGGTGGTGGTGGTTAGGCTTGGGTGATGGTGGACATGAACCATTAG [C/T] CTCAGTCAATGTTGAGTAAGCAAGGAGAGAAAGCACTAAAATAATGGCAGAGAATTTGTT
4579 CaTSNP7559 TGGGCTTTCCTGCGCTGGGCTGGATTCCGGGCACACTGGGTGGGACACTTGTGTGATA [G/A] TATTATTGCTGCTGCTGAAACCTTCAATACTGGAGTTTGGGAGATGAGGAAAAGTGGTAA
4580 CaTSNP7560 CTTTTGTGGAGAAGGATGTTGCCAACCATATTGATGCAGCTGCTTAAAGATTCGGTTGTCC [T/C] TGATTGTAACATGTGTTAAAAAATGACCAAGGCTTTGATACTAAAATGAAGTTTGAGAAA
4581 CaTSNP7561 ACGCATCAAGAAAAGGTGGACTCTTGAATCTCTTGGTTTATTAGAACCTAGACAAAAGTGC [T/C] CTCGAAGAAGATTTTGGAGGGAAGAGGAGAATGAGGATAATGAACAACCTGCTGATGAG
4582 CaTSNP7562 TATTGTTGTTCTTGTGTTGGGAACAAAAGTACCTTGTGATAAGAGGCAAGTCTCCACAGA [A/G] GAAGGGGAAGCGAAGTCTCGGGAGCTAAACGTTATGTTTATTGAAGCTAGTGCCAAAGCC
4583 CaTSNP7563 TGCTTTGGAAGGAACGTTAGTGGTGGTTCAACTATATCTCAGTACTTGATTGAAACTCT [A/T] CCTGGTTGGCAAGTTGATGATTTTCTCGATTCTTCTTCTGTTCCATTTGCTTTCTCTAAG
4584 CaTSNP7564 TGTTCCGCAAAAATCAAAGTAATCCAGGTATAGAACACTAAAAAAGTACAAAGAAAGTGA [T/C] GAGGTAGGTACCTTCAAGGAACCAAGATTACAAAAGATACACATCAATTTCCAATATAC
4585 CaTSNP7565 TTTTCATATATGGTCTGGTCTGTCTTTTTCTTCTTCTCTGTATTCTTGTAGTTGGTTAC [T/C] TGCGGTTTCAAGAACTATCAATTTGTAGGTTCCCTGAGGCATCTGTATACGGAATCCTGC
4586 CaTSNP7566 CAGCCGCTCTGCACTCACACTGTTGCGGGATAGTACTTGCAGCATGCGGAGAAATACG [A/G] ATTCGTTTTCTGTCGGAGCCTTGGAGAGTAATGAATTTGAATAGTTTCAGGTCGGAGAAA

4587 CaTSNP7567 GCATAGTCTAGATTTCCAGATATAGCCAAATCTAAGGCAATACGTTGCCCGTGAATGAT [A/T] AACTAACGAACTCATTGTATGTTCCCATGCCGACACCAGTCTCACGCCAAGATAAGGT
4588 CaTSNP7568 ATATCAAATGAAATGCTAGTTAAAAACAACATTAACAACACCACAAAATTACACAATCAC [A/G] AGACCCCATACATATATAAATACACTATGTCATCTTTAATATACCACACAAGACTAATC
4589 CaTSNP7569 CATGGGTCAGGGTTTAGGGCTTCGTCCTGGAGTTATTGATGGGGCCATCAGTATATCTGC [C/T] GTTCAGTGGTTATGTAATGCTGATAGATCGTCTCACACCCTCGGTTAAGATTGAAGGCT
4590 CaTSNP7570 TTCTCTTCTGTAACATGAAAGTTGATACTTTCTCAAAAACATAGAAAATTGGACCTGAA [G/A] TTAAGGCTGGTCCAAACTTTGAAGATGCCTCAGATACTGCTTTTGATCCAGGAAAATCAA
4591 CaTSNP7571 GGGAGATCCAAGAGAGAAAATTTGTGATGCTGTTGGTGATTTGAAGCTTGATGCTTTGGT [C/T] ATGGGTAGTAGAGGTTTGGGTGCTATACAGAGGTTATTGTTGGGAGTGTGCTAGTTAT
4592 CaTSNP7572 TGATGGTGTCTGGGAACATTTATTGCATTTTTGACAGGCGTGTAAAAGACGAGTTTGA [G/T] GGAGTTTGGGCAGAAGTGATTCCTTCCATCTTTAGCTTGGTGGGAGGTTGGTTATGTATA
4593 CaTSNP7573 ATATTTTACCTGCTACAACCTGTTCTTTGGCTTTCAATACCTTTACAATTCAGAAGAG [T/C] GTTCTCTTTGTTGTTGCTGTTGAACGGCGAAACGAGCGAGGCTTTTCGATCTCAGCAAC
4594 CaTSNP7574 AGTTTCTCGCCGGTTGGCTCTCACTGTGCTTTTTGGTTCTGCTGTTGTTGCCCTCTAAGGT [T/C] TCACCAGCTGATGCAGCCTATGGTGAATCTGCCAATGTGTTGGAAAACCAAAGACAAAC
4595 CaTSNP7575 AACAGTGAATATAAGAACATCAGCTTCACTGTCTGGGATGTCGGGGGTGAGGACAAGAT [T/C] CGTCTCTATGGAGACATTACTTCCAAAATACACAAGGACTTATTTTTGTGGTTGATAGC
4596 CaTSNP7576 TCGGTTTACAGCTCCTGGGATATAAAAAGATCACATTTTCGAATAATCGGAATTTTTCAAG [C/T] AAAGTCTAGATAAAAACCCAGTTGCAGACATCTGCAATGCTATTAGATAGGGTATACAG
4597 CaTSNP7577 CCGCCGCTTGATCTAACTCTGACACCATTTCCGCCACCGGCGTGGTGTGTTTCTTTG [C/G] CTTTTCCGGTATCCCGTCTGTTTTATTTTTTCGACGCGTTTTCGACGCGCTGATACTGCGC
4598 CaTSNP7578 CTTTTTGATGGAACCAGCTGATTGAGTGGCAACGTGGCGTTGAGATCAACGAATCGGAG [T/A] CCGGCAACGCGGATCGAGGATGAGAATGAGAGAGATTAGAAGAAGAAAGGGTTTTGAGG
4599 CaTSNP7579 AAGGTAAAGGGTCCACCAGAAAAGCCATGAATCTTTCTTGTTCATCCGAGCCAATGACTC [T/C] TGGTCAAGGCATTCAAACCTCCAAACACTCTCACCAAGATCATTTGATTTCAATCCACCAT
4600 CaTSNP7580 TGTA AAAAGAAAAGAAAAGAAAAGAAATAATAAAAAGAAGAAATTTGGTAATTGAAGAGTCGA [T/G] TCGAGATGATGGCAGGTC AATTGGCTGCAGCAATGACAACCATTTCTTCTATTCTTCTC
4601 CaTSNP7581 CAATATCACATTTAGCACACAAAGCAGCTTCAATCAGCACAAACAAATCACTGTTGCTGCTG [C/A] TTTCTCACAAACATCACATTGAATTTTCATAACTTATGTGAGAAAATTTTAGATTAAGAA
4602 CaTSNP7582 GTACCCACCCTGCGAGGTTTGGCGTCTTCTGCATTGGTAAGTGAAGATTCTGCTTCATCT [T/G] GAACTTTATCAACGGGTTTCAATGATTTTGGCTTTTCTTCTCCTTGGCAACTTCAGAAG
4603 CaTSNP7583 TATTTAATTATTTTATATTGCGAGGACCAAACCGGCACGGATTTACCGACCCGATCGGA [G/A] ACGTACTCTCCCAAACACAAGGAAAACGACCGGAATTATGCGCCCGGGGACAATTTCA
4604 CaTSNP7584 CTTCATAGAACCCGTGTGGAATCTACCAATATACAAAACCGAAGAAGTATTCTCAAG [A/C] GGTTCCTGTTCCGGAATTTTGCAGCAGGACCACCTTCCAACGGCAAAAATCAGCACCC
4605 CaTSNP7585 CGATTTAACGCCCTCTCAATTGGGAACAAGCACAGAACCTCTCCACGAGACATCGAC [A/G] CGAAGAAAGTATGCGGCATAGGCTCTGGAATGTCAATCGCAAACGAGTGCAGCGCGCGCG
4606 CaTSNP7586 TGAATTCGAGGTTTGGATGGAAGAACCCTGTAATGCAAAGTTCGAAAACGAGGTTCACTA [C/T] GATCCAAACATTAAGGTACCCTTGGTTATGGTCGGATCGGGGAATTATCTGGTATGTCT
4607 CaTSNP7587 TGGCTCGATTTGGCTTGGATGATATGAAGGCTTCAATGAAGCATGGATTATGATTAGAAG [C/T] CTATTGATGAATGGCTCTTGAATTTTCACTCTCTTATTTGGTTGAGTCTTAAAGCTCAAT
4608 CaTSNP7588 AATGTAATCATCTTTTATGATATCCCTTTTTTACACATGACAAATTTGCTGGCGGAAGCGTC [A/G] TCATTGGTAGCTTGTACCGCCGAGTGTACTGTTATCCGCCATGGTTGAATAACGAAGG
4609 CaTSNP7589 CGTGAATCGGTTACCATCAACGGTTATTGACTGCGAAGAAGAGGAAAACGAGGTTTCTGTC [T/A] CCAAACAGCACAGTTTTCAGTGTAGTGGAAAACGAAGCAGAGAGATGACGTGGACAGA
4610 CaTSNP7590 GTCGCTACAAGGAATGACAGCTCTAGTTACGGGTGGAACCCGAGGCATTTGGTTCATGCAAT [A/T] GTGGAGGAGTTAGCGGAATTTGGGCAAGTGTGCATATATGTGCAGGAAATCAAGATGAT
4611 CaTSNP7591 TTGAATAGCAAATGTCGTATCTTTCTTAGGTGGTTAGAGACGCTTTCGTTTTTACGTAAT [C/T] TGTGTGGCTTTCAAAGATTTCTCATACACAAATATTGGTCGCATGCCTCTTCGTTACT
4612 CaTSNP7592 TTTTTGTAGTCCAGGCCGGATAATCGCCTCATATTAACCTACATTTGACTGGAACCTTAG [T/C] TTACAGAGATGTGATGATAAAGGGGAAGGTTTTTGCATTGAGTGGTTCCGTTGGATGTGA
4613 CaTSNP7593 GGGTTTATGATTTGGGTTTTGTGTTTTCTAAGGAAGATAAAGATTCAAATTTGGTTTTCT [C/T] TGATACCTGGATTGCAAAGGCTTGGAAAAGAAGAGATGACGAAGAACAGAAGAAGATTG
4614 CaTSNP7595 AATAAGTGTATGATCTGAACTTCAGGTACTTTGACTCCCTTCAAATTTGACTTTTCAAT [C/T] GCAGTTACTTGGTCTACGAGTTGATCAAGTTGCAGAGACATTTATTGATGGCAGGATTT
4615 CaTSNP7596 GACCATTCTTGCGCCGACGATGGTGCCTTTTCGCAACTAAAACCCGGATACTTCAATTC [G/T] CTCGGCAACGCCAACAGAAAACACTGATACAGTTTATGTTCTTCTCTGTTTATGTATCA
4616 CaTSNP7597 TTCGGAGGAAGGTCGTACCTAGAGGTTCTGTTTTCGGAAAATGGAATGTCAATGGTGC [T/C] GACTTCGCACAAGTAACAAGAGGATTTGCTGAACGGCCCGAGGCTCAAGACAAATCGGCA

4617 CaTSNP7598 AAGGTTAAAGATGACTGCAAAATCAGAGGCCAAAACACTTTCCAATGCCATTAAGAAT [G/A] TTCATAAGAAACCAATTGTTGAGGATGATGAAGTAATAAGGATACTGGCAACAAGAAGCA
4618 CaTSNP7599 GGATTCGGTGGCTGGGTTAGTTGTGCGTAATGGTCTTCAAATTTCTTGAGCCTTTACAA [T/C] ACCTTGATTATTGTGAGGCTTGTCTTACCTGGTTTCCTAACGCCTCCTCCTGCTATTGTT
4619 CaTSNP7600 TTCCACTAATCCGCAGCAGCTGCACCTTTGCGGTGGAGACCCTTCCACCTCCGTGGCCTC [G/T] ACTTCTTTCACAATCTTTCCAGCCATGTGTAAAGCCTATTTAATTGTTCCTAATAAAAAAT
4620 CaTSNP7601 ATTCAACTGATAAAAACTCAGACATCAGAAACCAATAAGTTGGAATAAAAACTAGAAAAC [A/G] CTCAGTCTATTGTAAACTCATTCAATAACGATTTAAGCAGCAATTGCTTGTGGGCTGC
4621 CaTSNP7602 TAAGACCTTCAGAGCTGGAAGTTCGATTGATGAAGCAGATATAGTCAAGGAAACAAAGCA [A/G] TTCACATATAAAGATGGTGATCAGTTTGTCTTCATGGACTTGAGTACATATGAGGAGACT
4622 CaTSNP7603 CCACTGATAGACTGACTCTATACCCGGTACCCTGTTGACACAAGCTGCAAGCTTCTCTGA [G/A] ACAATGCTTTCAGCCAACCTCTTGCTGCTTCTTTGTTGGGAACAGTGACATATACAACG
4623 CaTSNP7604 AGGAGAGATTTAGAACACTAACAAGTCTTATTACCGAGGTGCGCAAGGATCATTATGG [C/T] TTACGATGCTACTCGCGGAGATACATTTACAAATCTCTCTGAAGTATGGGCTAAGGAAAT
4624 CaTSNP7605 AGGTACTTGCTACAATATGTTAGTAACACCTGGCTCGTGAATTGCTCTGGTGTGCCAT [A/G] CTTCTGAAATGGGTGAGTGACATCCTTGAATGAAATGTTATAAATTATTATGATTTTTAA
4625 CaTSNP7606 CTTAGATTGCTCATACTTTAACTTTTCTCTGATTTTTTATGCTCGTTACCCTGAAATTG [A/G] TTCAACGTGAAGAATCAACGACTAACCTAGATGGAGAAATGCTTAGTTTTTGGTGGTGG
4626 CaTSNP7607 TGAATTAGCAACTGAATCATAGTGAGTTGTATCTCTCGTACCACAGCTCCTATGCATAC [G/A] ATTGCATGATATTTGCTGATTTGCCAAGCCTTGTGCAACTGCGCAATTTCAAACAA
4627 CaTSNP7608 TCTCTGGTGTGTGATGCACAAAGGTGATGCCTATGAATTTGTAGTTGGAGGACAAAAGGG [A/T] TGGAGTGTCCAAGTGACCTAATGGCAACCCTTATAATCAATGGGCAGAAAAGAGCAGA
4628 CaTSNP7609 CTCTCCTAATTCTCTCTTAGCACAAAGCACAATGATCCAACCATATCCCCAACACTTGCTT [C/A] GAAATCGGCTCAATATCGTTCCTGATGATCTCGTCCATCCGCTCTCCTCCATCATTTTTCG
4629 CaTSNP7610 GTTAATCCATCCGAGATTCGCTCGTAGTGTGCAATTATCTATTACTTGATCTTCTGAT [C/T] GTGACACACACCTACATGTTATATATAATAATGCGTAAATAGAAGTCAATGTTGGCTCCT
4630 CaTSNP7611 TGCATCAACTGCAACATCGTCTGCTAAGGATTTTTTCATCACTAGGAGAAGAAAGTTGAGT [A/C] AGAAAGAGGCGTTTTCCATGAAGTAAGATCATAAGCAACAGAGAACCATATCGGTTTTCTC
4631 CaTSNP7612 GTCAAGAATTGAAGATGTAAGGGAGGAAATATTAAGGAAAAGAAGAGCTGGTAAATTGCC [T/A] GGTGACACAACCTCAGTCTTAAAGAATTGGTGGCAACAACATGCAAAAGTGGCCTTACCCA
4632 CaTSNP7613 CTCTTCCGCATAAACCTTCTCAACTTTCCGATCCACATCGTGCAGAAACCGTGCCTCAC [A/G] CCGGAACCTTTTCTATTTCTCGCCATGACCGTCATCGAAAATATCGCCGCCATACGACCC
4633 CaTSNP7614 TATGACCAGTTGCTGCTGCCTGCTTGATATTGTCTGAAAACCTGGAGCTGGCAATGTTGCT [A/G] TTTGGTTCAAATTTATGGTGCAATTACTGTTGCACCCTTGAGAGTAACAAAAGCTGCAA
4634 CaTSNP7615 AGCTGAGTGCAATGATGTATACGGATTAGATGATGAGCTTTTGGAAATGGTTCCAAGCC [T/A] GTTCTTGCTGTGCTTTTTCTTTATCCCCCTTACCACCAAGAGTGAAGAAGAGAGTTGCGA
4635 CaTSNP7616 AATCGCGAGCTTTATACGAACATCCGCCATCGTTCTCAACCTTCTCCGTTCTCCTCCAA [T/C] TCCCTTCAATTTTTCCGATCATCCATTGGACCAACCGTTACGGCGTTCGCTCCGCTCA
4636 CaTSNP7617 TTCAGTTTGGCAATAGTGTAGTGAAGATGGTGGAAACAAGACAAGAGAACTTGAAAC [C/T] TAATGTCCAGGATAAGAGGCTCTTTAGTTATATCCTAGATCGTCACATTCTGTTAAAGT
4637 CaTSNP7618 TTGTGGCGGAGATTTTGGGGGAAGAGGAGAATCGGAGAGGTTTGGGGTGGAGGCGGTTGA [A/G] TTTGAGGGGGAGGGTAAAAATGGAAGAGAGGGTTTTGGTTTTGGGGGATAAGAGTGATGT
4638 CaTSNP7619 TGGATGACGACTCATATTTGTTGAGAGAAGCAGCTCTAAAACCTAGATTTCTAACTGTC [A/G] ATAGAAACAGAAACAGAAACACCCTCTAAGTACAGCACAGGTGTAACCTCGTTTCGTAT
4639 CaTSNP7620 AACCAAGCATTCAATTTTATAACATGAAATTAAGTGAAGCATATCACTCCCATGAAACAGG [A/T] ATTCAACATCTAAACCATTATCAGCTGCTCAACGATAGCTACTTAAAGGGTCACTGTTTT
4640 CaTSNP7621 AAGGGCATTAAATTCACACAAAACTAGAGGAACCTTACAATCTTCTTCTTTAGTCCC [G/A] CCAACTGTTTCTGCCATCAAGCTTCCACATGATTTGAACCGACACCAAAAGGTATTACCTT
4641 CaTSNP7622 CAGATAAATGCCAACGAATGCTGGATAGTTGAGTCTCATGCTCAGGCAGTGACTCCTTCT [G/C] CTGTTTCATCAATAACTACAACCTGTAATGTCAGCTCCATACTTTTTAGCTAAGGCACTGGT
4642 CaTSNP7623 TGCTGCTTTCTACAACCGTTTCCCTTACAAATCTTTCCAATTTGTACAGTGAAGATTGCA [G/A] TACATAGATTGAGAGGATGAAAGACAGCAAGAGCCCTGAACCAAGAGAACAAAAATCC
4643 CaTSNP7624 CCAGTGGTTAAGGTTTTCAAAGATTTTCATGACATTTACATCATAAAACAAGGACACAGCA [G/A] TCTGCACCTCGGTAGAAAGCAACGCCAAGACTTTGAAACCTCTCCTGACCAGCAGTATCC
4644 CaTSNP7625 GCAGATTGGTCGAATGTGGGATCAGTTGAATGAATTGTACGTCAAGCATAAGGCAAC [A/G] CTTGATGTTATTCAAAAATATATAGACAGGATTATTTTCATGACAGCTCAAGAGGCGAAG
4645 CaTSNP7626 GACCTTAAACGTGCTTAATGCGGCTAAGGAAGTTGGGGTGAAGCGCTGGTTGTCACTTC [T/C] TCTATCTCTGCGATTACTCCTAGCCCTAATTGGCCTTCTGATGTTGTCAAGAGAGAGGAT
4646 CaTSNP7627 CACATTCAATCTTGATTCAATATTAGTCAGAAACTACTTATCACACATAAAATTAATAG [A/G] CACATTGAAAACATTAAGCACAAGTCAAGTCAAGTCAATCATCATACAAGTAATT

4677 CaTSNP7659 AGCATTGGTCTTCTGAGTCTTGTGAATACAAGCTTCTCAAAGTTTCCTTTGCACTATT [G/T] GTAGGCCAATCATCCGAGAAATACTTAACTGCCACACGTTTCCCATCAGAATCCAGAAGA
4678 CaTSNP7660 AACTGTCAGCAGGCTAACATTGTGTTTCAGCACAAAGAGCTTTGACAAGTTAACATAGTC [T/C] GGCTGGTCACAATCTTCTGCAAGAACACAGAGTTGTCCTGCATGTTTCTCAATTACTTTT
4679 CaTSNP7661 TGTTCAATCCGGTGGCTGCTTCTTCACTTTCTGTGATGCTTTCGTAGCTTCTTCCACC [G/T] GCCGAGAATCGCACGGCTCCATCGTGTCTTCTTCTTTAGCTGTAGAGGCGAGGACTCGATC
4680 CaTSNP7662 TGATGATGTTGATGATGATGATGGTGATTTGGATGATGAGCTTGTTCATGGGATATTGG [G/A] AACAGTTAGGGAGACAGAGGATGAGGAAATTGGGGAAAAGGGAATTTACAAAGATGAAT
4681 CaTSNP7663 ATTTGTACTTTTTCTGAGGATGTTAAGTTGGAGGAGCCTAAACTCAATGAATTTGATGA [G/C] AGTATGAAAATGTTGCTTAGGAAAGGACACACGTATGACACTTATATGAAAGTGTCTCCT
4682 CaTSNP7664 ATTTGGATTGCTCCAAACATAAGCTTGAACCGGCAAGTTTTGAGAATTGGGCTCCAAAA [G/C] GAAACCTGAACGTCAGTTCTAATATATTCAACATCTTCAAATTCATCTAAAATATGGAGT
4683 CaTSNP7665 CATTGTTCAACAAGTATTTAAGGAAAATCCAGACTATTACAACCTCTGCATACAATAC [T/C] AGATATGGAATTTACTCTGAGAAATGTGGACTTAACAATGTGATGATGTCATGGGGACAT
4684 CaTSNP7666 AACATAAACATTCCACAGGTTATATAATAATCGCAAATTAATAAACAACCTTTAATTCA [A/T] AGATCTCAATAGAAACGGTCCAAACAAAATTTGAAAAACCGGATATAAACCTTAAAGTTGT
4685 CaTSNP7667 AATATTTGGGACTGAAAGGAGCCTTTCGTACAGGTATGTACCCAGTTCCACCTCATACTC [G/A] TGTATGGCTTGCAATCCCAATCCAGATAAGTAATCAATTGCAGCTCCTAATCCAATTGCT
4686 CaTSNP7668 GTGTCGTCGTATTATTTCTGATAGCGAGATTATGAAGGAAGATGATAACAACCTGGCCAGA [G/A] CCAGACCCGGTAGGGCGCCAGGAGCTTGAGATTGTGATGGGGAATGAGCATATCTCCTTC
4687 CaTSNP7669 TTTTGGATAGGAGGATTAGGATAACTGAGTTGGTTTTGAGGTGTGTCATCCTTTGTTTAG [C/G] TCTTCTGCAAGTTTTCTTGTGGTCACTGATTCAAGTTAGAGTTTTTTTACCATTGA
4688 CaTSNP7670 ACAAATCAAACATTCTGCTGCTGCAAGACAAGGAGGAGAGTTGTAAGAGCAGAGAGTGT [C/G] ATAGAGAACTTGGCATCAAGATTGAGAGAAACCTCCTCACTCCAAACTCACTCAACTT
4689 CaTSNP7671 CGTGTAATTTGGTTAAATCCATTGTCCTGTCATGTTTCCAACACCTTCCAGTGCCAAATG [T/C] TGTTGCAGAAGGAAATGAGTTCCTTATTTTTCATCCTCCAAAATCTTGCCATTTCTCTTG
4690 CaTSNP7672 AAAATCTCCTCCCTGACACATAAATCTGGAATAAATTCGATGAAAACCGAACCTTTGAA [G/A] TGTAAAGGTTTCCCAAAATTTCCAATCCCTTTTACCAGTGCATAGAGCCCTAAAGTTT
4691 CaTSNP7673 GCAGCCTTGGAAAGAAAGAAAGAAAGCCGGCTTATATCATCGTGACAATGATGCTGGAC [T/G] TGGTGGCAATGATAAATGGGAGGAGGAGTGGAGGAGGATAGCCATCGTTGAAATAGCCT
4692 CaTSNP7674 CAGACCTACCATAGGTTCCACCGCCGTTGATAACGGTGTGTTGAAGCTCCTCCCTCTGA [C/T] GATCCTCCTTCTTCTTCCCAACCCAGAGGATGCACCTGACACCGGCAAGATCGAGACA
4693 CaTSNP7675 TTGGGACAAAAGTTGGCTTGCTTTCTATAGTTTTGCAGTTGTTGACATTCAATGAATTTCT [G/A] AAGAAATGTGATGCTTAATATGCTTTAGATTCTTATCCATGTTTCGATGTTTATTTTGT
4694 CaTSNP7676 TTCGGTGGTGGAGGATCTCCTTTTTGTATCTCTGAAACATCAACCTCAAATGGCCAAAT [G/A] TATTTGTCTGTGTTATCTGCTCTGGCCAAGCTCCAGTTCGTATATCTTCTTTCTTCTGCG
4695 CaTSNP7677 CTTTCGTTCCCATTTGATTACAAAGAGACACACATAAAGAGAATAATTGCATTACCTGG [T/C] GAGTGGTTTTGTTAATCGTCAAAGCCATGACGTACTAAAGATTCCGGAAGGACACTGTTGG
4696 CaTSNP7678 TACTTCCTTTGAGATCTTCTTCTCTGCTTTGGGTTTCTTCTCAGCAGGGGCTTTCTCTGC [T/A] ACTGGTTTCTTCTCTGCTGGCTTTTTTCTCTGCCTTTGGCGGAGCCATTGATGGGGATGGT
4697 CaTSNP7679 TCCTTGTCAGGCTGGCATTGTAAGAAGGAGAATATCAAGCTTCATGGTTTCTAAGACT [C/G] TAATCAACAGTGCAATTTAGCTACATGTTAAATATTTAGCATGCAGACTATAGTTCAATA
4698 CaTSNP7680 ACTATACTCTTCTTCCAATAACAACCTCAATTCATTCAACAACAAAATGGCTAGTATT [C/A] AGGTTGTTGCAATTTCTGGTTCTCTCCGAAAAGCTTCTAACAGCACTGGTCTCATCCGTT
4699 CaTSNP7681 CGAGGTCGACAAGATTCTTCCGCTGGAATCACGGGGTGTCTCAAAGCAAAGGGGAT [A/C] ATCTATTTGTCAAATAAAGAATGGTTTTTGTGTTGCTAAAATCTCTGTTGATGGCCTTATT
4700 CaTSNP7682 CGCCGCTAACAAAGACAAAGACAAGAAAAACCCACTTCCCGTTCGTCTCGTGCCGGAAT [T/C] CAGTTTCTGTGGGTAGGATTCACAGACAGCTGAAACAAAGAGTCCAGGCCAATGGACGT
4701 CaTSNP7683 TTGTGCAAGGAATTGAGACGGATTAAAGTGGCCTGTCTGAAAGGGGAACAAAAGTGGCG [C/A] GGCCATGGTGGGCACCGGCATGCCTATCTACAGTGTCTTAAAGTTGCAAAAATCCAACA
4702 CaTSNP7686 CCTCCGACCCGATCCGAACACCTCACTCGTTCTCTTTCCAACCTCAGCAACGCGCTCCT [A/C] TTCTCCACCTCTACTCACCCCAACGATAAAGCTGTTAGGGAACAAATACAGTCGCCG
4703 CaTSNP7687 TCTTTTGTTCCTTCTTCTTTGTCTTTCACTGTCAAACTTCTTCTACCTTCTCAGCTTCA [T/A] CCAATGGCTTGGTTTCTTACAGTGAAGATTCAACAACAGTTTCTTTTTCTTTGGTTTCTG
4704 CaTSNP7688 AGCATTGGGAATGTCTAGCCTTGAAGCTGCGAAAATCTTTTTGTGATTATTGATGAGACA [G/T] ATTCCAACGTTCTGCGGTAACCTTCGGGAGGAGCTTCCATCGGAGCAGGTGAAGAACGC
4705 CaTSNP7689 AACTGTAGTATGGCTACTGTGATTGGTCTTTGTTTGGAGGTTAAGCTAAAGCACTACTT [C/T] CCTCCTCATTAACAAGTGGACATTAAGTGTCTCCAGGATCTCATGCCTCTGAAGAATCA
4706 CaTSNP7690 AATTTCTATGATCTACTATCCATATAACAGATTTGCATTAATCAAATTAATGACTCTGA [T/A] ATGCTTTGTAAGAGGGTCCGAGATTTTGCCTTTGAACAGCAGCAAGATTTGTGGAC

4707 CaTSNP7691 TAGCGTGAAAGCGCAGTTTCCCACCGTAAAGAAGAACAATTCATGGCGGAGTCCACCGC [G/A] CCTAAGTGGGCCAGAAAACCATCTCTCTACCTCCTTACAGACGCGGTTGCCACCTCGTT
4708 CaTSNP7692 ATAAGCGCGTGAAAAAATGAGAGCACCAAAAAACCAATGGTTAAAGCTACAGCCAT [T/G] ATTGGTACAGAGTTTGAAGATGGTGAAGTGAAGTGAAGTACTTGAAACTTGCAAGTC
4709 CaTSNP7693 ATTTGGATGTGAAATTGATGAAGAAACATCTACTAAGCTGGAAGGGTTGCTGGAGTTCT [G/C] TTTGTCTCCAGATTCATATGTTGATCCTGAACACAAGGACTACGGTGTGAGTTATTT
4710 CaTSNP7694 CTAGTCCCGAGGAACGCGCAAATGCCACACAAGTGCAGGGTTCATACTTGCCCATGTGA [C/G] GGAGAAGCCATCTGTTGAGCTTGTAAAGTTACAGATGAAATGAAGGCATTCAAAGCGTA
4711 CaTSNP7695 AAAAGAATGGATTATAAAAAACAGGAATAAGTGGATCTAAAACGCAATGTCAGTGAAGAA [T/G] TGAAGTCTGAAAACCCTATGGAAGCAAGGAAGATGAGGAAGACGACTTGTCTAAGCTGTT
4712 CaTSNP7696 AGTATCCATGTGACAAAACCATAGCTTCAACCTTATCACCATTATCACCACCAAGTGA [G/T] ACTCTATATATCCTATTCTCACTTCTTGGACTATGGCAATAGAAAACAGCATAAGGGTAT
4713 CaTSNP7697 TTCGATGTCAGTGACATCATAAACAATAAATTCATGTCCTCTATAATAACTGCT [A/C] GTTATAGTCTGAATCGCTCCTGTCCAGCCGATCCCAAATCTGCAGCTTGACGGTTTTTC
4714 CaTSNP7698 AGCTATTGCATAAACTGCCAGAAGACTAGCTGGACCCTCCAAAACGTCAGTTAGTCCCTC [A/G] ACAGTGACGACCGCTGCATCCCTTCTGCATACCTTGAATCCCTTTGTATACTCCTTC
4715 CaTSNP7699 TGAGCGTTGATCAACATGCTTAATCCATCTATTGGAAATAGCATGTCCCTTATGATTCAT [C/A] GCTGAAACAGAGTTATCACAACCGCTAGCCGAAAAGTGCGCCATATGAATCCCTTCCCC
4716 CaTSNP7700 TTTGCTGTGTTAAAAAATGACTGATTGAACTTTAGTTAATGCACATCTTTCGAATCATA [C/T] CATTGTTGTAAGTGTAAAAAGTGTGAGTAAATCATAAGACGCTCTTATAAGTTATGATA
4717 CaTSNP7701 CAACAGTCTTATTAGTTTCTTTTTAGTCAAATAAATCATCTAACAACTTTAGTCCAC [A/G] TTCAGGACCTTTGGAAGTTAATGTAAGGTCCTCATAGCTTGGAAACAGAAGCGATGATG
4718 CaTSNP7702 ATCTGTAGAGCCATCCATGAGAATTTGCTCTATCTGAAGGGAAGGGAAGCGGAGATGAG [A/G] ACCGTGAGTGAAGAACAATGGAAGAGTGGCATGGTTTTAGTATTATGTCATTAGGCATC
4719 CaTSNP7703 TTTCTTCAATGGATCCTTACTTGACCCTCTCCTTCCGAAGCACTACGAAAACAACAAA [G/A] TCACTCAATTTCCACCTCCTCGAACCTTCAATTTGTTGATTTTCTCTTTGATG
4720 CaTSNP7704 TCGAAGAAGCGATGAAGTTTTTCTGTTTTTACTTGCAGAAGAAATTTATCAGGGAAAGA [G/A] TTTTTGAATGCATTTAGACTTGTTTTTCCATAATTTATATATTTGTCAATTTCTTTACAA
4721 CaTSNP7705 CGGACTTCGCTCTCTCCATATTCGGTCTTTATCTTCAGAATTTAACGGCTTTGATCA [T/C] GGTTCACAATTTATGACAAATGGCGCCGAGTCTATGCTATGAGACACGGAAGACGAGTG
4722 CaTSNP7706 TAGAGGTTCTTCTCAGTTTGTTCATAACACAAATGGGAATTTATACACATGTAAGTGGAAA [G/T] ATAACAGGGTTGTCCCAGGTTTTCATGGATTTTCATATTCATGCTCTCGGTGACACCACC
4723 CaTSNP7707 GTCCTTAACAGCTGGACCCAAAGTCAAGTTTCTTCCCTTTGGCTCCCTAACCTTCCCTCT [A/C] GACGACATGGTTGATTTGAAATTCGCAAAAAGATATATGAGATTCGAAGAAGTTAGGGTAA
4724 CaTSNP7708 TGTC AACGATATATGATGAAGGTGTTGCAGAGCTTGTCCCTGGGGTCTATTTATTGA [T/C] GAGGTGCATATGCTTGATATGGAATGTTTTTCCATCTTAAATCGTGTCTTAGAGAGCTCC
4725 CaTSNP7709 TTATATAGATACAGATCCAAAGTCCAACAAGAGTCCGTGAGTGTGACTAATATCTCCA [C/A] TTCCCTATATAGTTAAAAATCTCTATCATATATATTTCTCTCACAGCACAGCACAGCACAC
4726 CaTSNP7710 GATGTGATATATACTGTGTTAAAGGCAGTGTGATTGTTGCTGCTGATTTGAAAAACAAA [T/C] GTGGTTGATCTCTCTGCCTGAGCAGCATGTATGCTGTGGTTGAGAATAACAATACCCTGT
4727 CaTSNP7711 TTTTTGTTTTTGAAGGATGGTGCTCCATTGGAGAAGCTAGTTGGTGCCAAATCCAGAAGAG [A/G] TTAAGAAAAGGATAGATGGATTTGTTTCACTCCATGCTTCAATGCTTAGTACAAGC
4728 CaTSNP7712 TGCTCGTGCCTCAACTTTGTGTAATAGATGCTTAGTTTTTTGTTTGGGTTGCGTGTGT [G/C] AAATTGAGGACCATGTTGTAGTGTAGTGTGTTGTTTGTGTAATCGAATTTGTGTTAGTTTG
4729 CaTSNP7713 AATTATGGGATGAATCATACGGCAAGGACCACACCATGGAGCCCAGAATTCGACCAACAC [A/G] GGAACATCAGATTCGAGGACAAGGATTCGAATTTGCATCAATAATAGAAACCACTTCA
4730 CaTSNP7714 AGCGATATCGGCACCGGTAACGTTGTTGGGTGAAATGGCGAATCAGGGTCTAAGAAACG [C/A] AAGGATGAAAACGCTCGTCACATGGCTAGGCTCCGCCGCATCATCATCGCTTGCAACGTT
4731 CaTSNP7715 TCAATGATTCAACATCCCTTGAACCTTGATATTTAGCAACTTCTTCCCGTCATAGAAAA [T/C] CTTAAAGGTAGGATATGAGTGAATATCAACTTTAGAACAAACAGCTTTGTGCGGTGCCGCA
4732 CaTSNP7716 TTCCCTTAAGTTCATGACATAAGATAACGCTGTCCAGTGAATATAGTTAACACTCAGCAC [G/A] AATAATCCATAGACAAACAGAGTACATAGCATAGATAAATCTACATTGAGGATTTTTGG
4733 CaTSNP7717 GAGGTTGATCCGGAGGAGTTCATCATGATGATGAACAGGACAGGCTTCCGTCACTAGTTA [C/T] TATATCTACATGGAGTAGTTACCTTTTGTTTGGGTTGACTATATGAAAATCAGAAGAAGC
4734 CaTSNP7718 TGATGAACCTTACTACTCAAAATGATAGCACGGTAGCAACCATGTTGGTGGGAAATAAGTG [T/C] GATTTGGAGAATATCAGAGAAGTGAACACAGAGGAGGGAAAAACTCTTGCAAGAAGAA
4735 CaTSNP7719 AATTTGTGTTTCATAGAAGACTGGAATGCCAATCCCAACAGCAACACTCAAGACCAAC [A/G] GTTATAGCCACTACCGTGTTTTGTATCAAGTTCAATAGCTTAATACGTGGATAAAATGTG
4736 CaTSNP7720 AGCGGAGGAACGAGAAGAGAGTGAAGGAGACAATGACGATGATGTAGACACTGATTACGA [C/T] GAGGATGAAGATGAGGATGATGTTGAAGGTGATGAAGACGGTGATAATCAGGTTGTACCT

4737 CaTSNP7721 GGTTACAATTTTGTGAAAGCAAGGAAATTTGGGGTCAAGAAACACAAATACAGAAAACACT [A/G] CACTAAGACATGCCTTGCCTGGCAGTAAATATAATCCAAACACATGAATTGAAATCAAAC
4738 CaTSNP7723 AACCGATAATGCTGTGAAGAATCATTTGGAATTCGACGCTTAAGCGTAAGGCGAGTGGTCT [C/T] GGTGGTGATGTTCTGTTGTGGTTGCCGGAAATGTAACCTGCTAGTAATGAGGGGGGAAGT
4739 CaTSNP7724 CCTAACATGTACCAAAAACACGACCATCTATTATCTGAGTTAAGATAAAATTACAACCAA [A/C] CCTATGAAGACAACATTTCCGAGAAGGATGAAAACCATCCATGAAGGCATGAAGGAAGCA
4740 CaTSNP7725 ATGGATATTGGTATTCTGCTATTGCCTTTGCCGCTGAACCAACAGCTTTGCCCTGCCATAA [A/C] CCCTTTTGTCTTCTCTGGACAGATGTTCTAAAAGCTTCTCGCTACCTTCCCTCCGACGAC
4741 CaTSNP7726 TCTGGATCATCCTTACTAATCTAGCAAATAAACAAGATATTAAGGCGCCCTTTGCCCC [A/G] CAGAAATAGCTAAGGTGTTGAACCTGGAAGCTATGGATAAATCTCGGCATTGGATGATAG
4742 CaTSNP7727 CAGAATTGCGTTCGAAGGCAATGGAAGAGAACCAGAAGCATCGACATTAGCAGGATAGCC [A/G] ATCAAGCTGTGTTGCAAATGTGGAGGAACCTCGGGTGGATCATGTGCCTCATCTTCATTC
4743 CaTSNP7728 AAGTATGAATCAACAACCTGCCAGCACCCCTGGTTGCTTAGAGGATGCGCTGATTTTCATGT [G/T] ATGCTACTTTGTAGTACCATCTGTAGTTTTTTTTGGTTGTCTAGATAGTTTATGTGGTACC
4744 CaTSNP7729 CTGACCTTGGAAATCAATGACAAACTCATCATCACCTCTGCACCACCCTGCATTGA [C/A] TGAGGATAGTAAGAATGAGGCTAGTTCAATTCTACAAGGAAGATCCCTTTGGTTGGTCTT
4745 CaTSNP7730 ACCAATGGGCATTTGAATGATTATATGTTACAATATTAGATACTCAGTGAAGGGTCTGTC [G/A] TGTGGGTTTATGTTATGCTTATTTAGCGCATCAAAGGCCAATATAGATTTATCTATGC
4746 CaTSNP7731 GGTGAGTATGAGGTGGGTTGAGGCCATCTGGGTCATAGTCAATCCTTGACAGAGAGACAC [T/C] AAGAGTGTGAGTCTGGGATTTTCTGAACATTGGCTCCAGTCAACACTGAGCCAAATGT
4747 CaTSNP7732 CATCACTTCTGTAACACACCCCAATCTAAAGTTTCCCAATAACAACGGAAACTTCTTTCT [C/G] TTACCCTCTCCCTCTCCAATCATCACCGTCCCTTAAACCCATTTACAGCCATCATCAAC
4748 CaTSNP7733 CTCAAAACCCACCCTACCATCTCGGCCGCCACGTATCAGATCGACCTCTCCATC [C/T] GTTGTGGTCAATTTtCATCTTtAAGTTTTGTTCCAGGGTCAATTTGAATTTGAGTATGA
4749 CaTSNP7734 GGAACATAATGCCACCTCACCTCATTAATAAGTCCCACGTAGATTTTGTAGCTAAACC [C/T] GAAGCCGTTGAGAGTGTAGCCAATTTCTGCGTGGCTTCCAACGGCTTCAACAAGTTTCTTT
4750 CaTSNP7735 ACACCCTTCTTTCTCAGAATGAACCCAAGAAGGAAATCCATCAGAATCCAAAGAAGCAA [T/C] TGGTGAAGTATAGATTTATCTGACAACAACATACGGCCACGTCCAAATGTCTGCATTGTAGA
4751 CaTSNP7737 AAaGGAAAAACTCATGGCAAGATGGTACATTTGGGAACCCCAATGTCCCATTCACCAGGAA [C/G] CAACTACACGTACAAATTTCCAAGTTAAGGATCAAATTTGGTAGTTACTTTTACTACCCAAC
4752 CaTSNP7738 CGGCCTGGATCGCCGTCGATGACGTGCGAAGAATCGGTGACGACGACGGTGTGTTGGAG [G/A] CTGGGATCGGAGATCCATGGACTCACGGCGGTGATCGGAAAGTTCTCAACCTTTTCATAT
4753 CaTSNP7739 ATCAACACAGGAACCAGGCCAAGCAGGTGGAGGCACTGGATCAGTTAACAACCTGGGGCT [G/C] GAGATGTTATCAAGTATGTTTGGTGGACTTGGAGCTGGTAGCTAGCTAATCCAAACAGA
4754 CaTSNP7740 GTTTCAGATTTACCTCCGAAAACCGACATGAACAGAGTATTGTGGTGAAGTATTACGC [C/T] CAAATGGATAGGATTTTGAAGGAAGAGAGGAGTTATATTTAGGTATGATTAAGAAGATT
4755 CaTSNP7741 GTCCAAACATCAGCTTGAAATCTTTCTGGAGGAAGAAGTGTGGTGAACGTAACACATCA [C/T] GAGCTTGTGCCAGAACATCAAGTGTCTACCAGCAATGAGAAGAAAGCCTTGCTCCAGAAA
4756 CaTSNP7742 CTGTAACACACAGAATAAAACCTCCTATTGTGCCTTCATTACAAATGTCAACATTGGAAG [C/T] GGATCCATCCATGAGCATTCTGATAAAGAGGAAACAGGTGAGAAAGCCAAAGTTTATCA
4757 CaTSNP7743 TCCAGGAATTGGAACATATGAAGCAAGTGAAGTTTATGGGCCTCTTCAGCTTGGGCTCT [T/C] AGAAAATCATCAAACCTCAGCAATCCAGCCTCAAGGCATGGAATAGTAATGGTGAAGTA
4758 CaTSNP7744 GTTTGCTGGAGTAGATCCACTACAAGCTGGAATGTGGTTCAACTTGTGCTGGTTTTGGG [C/T] CTCACAGTTGGATGGATCTCAACATATATCTTCAGAGTTTCAACAAGGAAATGACATAT
4759 CaTSNP7745 TTCTGCTCTACTTTTTAAGAGATATATATGCGGTGTTTATCACATAACATTTATAGCATCC [G/A] AATAACAGGCAAGCACAAGTCTGTCAATAAGCAAGTTCTTGACCCTTTACTTTTTAATG
4760 CaTSNP7746 TCGGTTACTCGAAAGGCTTTTTTCGATTAAGGAAGCGTGTCTGGATTCTAAAGCTCGAAAC [T/A] TTCGGTCTTTGGAAGTTAAGGCTACAGAAGATAGTAGTAAAGGCACAAAAGCAAGGAGCA
4761 CaTSNP7747 GCAGCACTTTTGAGGGAGTAACTGATCTCAGATTTGGAATAGAAGTGAATACGGATTG [T/C] TAACAGTGACCTTAGCCAAATACCTCGACACACTCGCGGGTACCGCTTGAAATCAACGT
4762 CaTSNP7748 CTTGAACCTTCCATTACTCAAATATGACCATGATCTCCAAGATTGACAaCAAAAAGCTCC [C/A] TCAACAGGCTGTACAGTAATCCAAGTTTGGCATTATCTTTTGTAGCTTGAAGCCACCC
4763 CaTSNP7749 TTCTTCCAAGAAGCCAAAGCGCTTCGAGATCAAGAAGTGAATGCTGTTTCTCTCGGGC [A/T] TGGGATATCGTTGTCGATAATTGTGCTATTGTCAGGAATCATATCATGGATCTGTGATT
4764 CaTSNP7750 TCAGAAACTCGTTCTCAATATTTCCGTTGGTGAAGTGGAGATCGTCTCACCAGAGCCGC [C/T] AAGGTTCTTGAACAGCTTAGTGGTCAAACCCCTGTTTTCTCAAAGCTAGGTACTGCTGTC
4765 CaTSNP7751 ATTTGTCACACTCTTCACCTGGTATATAACTTTCTCCCTGTCAACAACCTCTGTCCCA [A/G] CTCTTCTCTAACAACCTTGTAATGGATAAGACCTACACTCCTTAATCTGTTTGGAAAT
4766 CaTSNP7752 TCTGCTAGGGTTTGTTCGATGCGCGAAGAAGCACAGTATACCCTAAAGCGCAAATACGA [C/T] GACCAACCCACCACCAGACATAGAAGTCAAGTTCGCAACGCCAAATTCGAGCTCAA

4767 CaTSNP7753 TTCAATCCTATATAAAATTAAGCGGTCCTCATAAGTGATCAAATTCACCGCTAAACCAAG [G/C] TGGCCAAACCTCCCTGAACGACCAACCCCTGTGCAAATAAGTTCCGAGTTCTTGGGAAAA
 4768 CaTSNP7754 ATGGAGGCTCAGGGAAGTGGTCAACTCTTGACTACTCTTTACCAATCCTCAGGTCCTCGCC [G/A] TGAACCAACAAGGGTTTCATTAAGGTTGCCCTTATTGGTGAAGGCGAGATCGCTTTTGGCT
 4769 CaTSNP7755 CTTTTTGCTTTGTAAAATGATTCCTTCAGTATTCAGTTCGCAAGAGATCCATGCACGATA [A/G] CTGATATTCTTCAAGAACCTTTCGTAGTTCATTCAAATTAAGTACTACGTGAAATCACAATTTT
 4770 CaTSNP7756 GTATTGTTATAGAAGACGCACTAGCTGGAGTGCAAGCTGCCAAAGCTGCACAAATGAGAT [G/C] CATAGCAGTAAGGACCACATTATCAGATGAAGCTTTGGAGTCTGCTGGCCCAACTTTTAT
 4771 CaTSNP7757 CCGATCTTCTTCATCGGATTCAGTGTGCTGCTGTGCTGCTATACTTTTTtATTCTTTCTTC [C/G] GATTGCTATGCCTCCTACTCTTCTCCGCTTAGGATCCTCTTTTTCTCCGAATCACTA
 4772 CaTSNP7758 GCTGATGCATCGACGGCTCCTGTTGCTCCTCCGCCTCCCACTCCTTCTCCTTAGCCATAT [G/A] CTTCACTCGGTTCCGGTACCTTTTTtGTAAGTCTATGTTGTTATGTTCTGTTTATTTGGACG
 4773 CaTSNP7759 AGATGCGTCAAAGTTACCATCAACAAACCCCTCCATTACCATGACCATTAACAGTACCCT [G/A] TTATTTATAGTGCAGCCATGGTAATGTTGTTGGTGCAGTGTCTGTTCCGGTCAACAGAA
 4774 CaTSNP7760 ACTCTGATGAAACTTCATTTACAACCTAGCAAAGCTGCAGCGGCTGGTTTTTCAACTAGC [G/A] TAGTATTGCTACTCAAATGTTGATTGGTTTCAGATTCTTCAGAGACGAAGCACTTTACC
 4775 CaTSNP7761 AAGGCCGGGTCAGCCTGGTCAAGCACCTCGCCCTGCTGTAGCTGGAGCTGCTCCTGTCCG [T/A] GTCTGAAAGAAAATATCAAGATTTTTTAGTCTGTTGGATCAGTTTTATGTGCCAAACCCG
 4776 CaTSNP7762 ACTATGCAATTTGTCAACAATGTCAATATTTCATGGTCTTACATAAGAAACATCAAGGCT [C/A] GATCTGGTGGTATGATTTCGAGACTCTTATAATCATGTTGGACTAAGAACAAGAAGTGACG
 4777 CaTSNP7763 ACTCTCCACTTCTCTGCTCTTTtACGTTGATAATTAATGTTCCGGGTGCATACAAGTT [C/T] GAGAACTGATAGCCTCAAGCATATCACGTGCATACACAATAAACTGTGGCTTAATGCT
 4778 CaTSNP7764 GTCTAATGTCGTTCCGTGCTGTTCTGGACATTTGCATATGACATTGCTCATATATTTTGAC [T/C] GCCGGAATGTGCAATGCTTCTAGAGAAGACAACTTTTCTTCCACCATTGGGGCTATTGA
 4779 CaTSNP7765 TTCTCAAAGGCAGAGGGTCTGGATCTACCGGCAGCAGCTCCTTAAGAGCCCTAGCTTTA [A/G] TAGGAGCTGGTGTTCAGGCTTTTTtGGGTTTTGCAACAACAGCATCAGCTGACGAAGCTG
 4780 CaTSNP7766 GCACCGTTTTCCGGCAACACGGCACCGTTCATTCAATTCATTCGATTAGTTTTGAT [C/A] ATTTTGGATTGACAATCTTAGGAACATAGAAGTAAAGAAAGATTGGATATGGCAACTAGAC
 4781 CaTSNP7767 CCCAATTGATGAACTCATTGAGAAGGCTGATGGATTTGCTGGAGTCTTCCCTGAACACAA [G/A] TACGAAATTTGTAAGAGGTTGCAAGATAGAAAaCACATTTGTGGTATGACTGGAGATGGT
 4782 CaTSNP7768 ATCAAACTCTTGGACTTATCTTTCTTGAGAGTATTTGTGCACGAACATAATCCTGTGCG [G/A] TCTAGGCACAATCGAACTTGTTCAGAATGAATGCAATTTTCTCAGTTTTTCCATTGCA
 4783 CaTSNP7769 TCACCCAAAATTCATTTCTGACACCAAATCAGCAATATCTGATGCATATAATCATACCGA [T/C] TCTGAATATCTGAAATCAGAAAAGAATCATCACAAAGATGCAGGATCTACTGCATCTACT
 4784 CaTSNP7770 CCATGGTAAATCAAATGAAGGATCTTTCTTTTGCCATCTTAACAAATCACTAAGTCTTTC [C/T] AGCAAATCATTGGACATATGCAGTAATCTTACAATCACAAGCTCACCGAAGATGGA
 4785 CaTSNP7771 CCTTATACCAAGCAGGCTGTTTTGAAGGTCAATAGGAACCAATTTGATCTTCTCTTGTA [A/G] CCCCTGTAGTTCCTAGTATCCATACAGGTTGTGCAAAAAGGGCAACTATAACTGGTATA
 4786 CaTSNP7772 ATCCACGTAATTATAAGGAAATTCAGGTGCTTTTCCCATTCGTTCCATTTAGGCTCGCT [T/C] TGCACCTCGCTTGCAAACTCCGGCGACACCACGTTCTGAAACAGCTCGAGTCCGTGTGC
 4787 CaTSNP7773 TTGCATTTGCAATTTGTGGTTGTTAGTAATATTACTCTAGATTTTCCCATTTCTGTC [A/G] TAAACTGTTTAGGAATGTGACTTACTGTGGTATTCCCTCTCTATTGGCTATTCCATT
 4788 CaTSNP7774 GTTTTCGATTGTTGATTTTGTAGAAGCATCTGTTGTTCCCTCAATCGAATATCACCGTA [A/G] CATTTGGAGCAGAGATTCATGGTGGCGGACTACCAGGAATCCACAGTTGTTAGCACAG
 4789 CaTSNP7775 AAAGGAAGCACTGAGTAAGGTGCTTGTACCATTTTATCCAATGGCTGGTCTTCTGTCG [C/T] GACGAAGATGGCCGTTGAAATGACTGTAATGGTCAAGGAGTCTCTTTATCGAGGCC
 4790 CaTSNP7776 AAATAGTTTTACACATAAGTACTCCAACCATTTTACTCATAAATCATAAACACTAACAAT [G/T] AAACAAGCTTTTTGGAAAACACAAGACCCCTTATTCTAGCTAAAAAAaCAACAATATCAT
 4791 CaTSNP7778 ATTCACAATTCACCCACATAGAAGCTTTCTCCAATGACTTAACCAAAACACCAACTC [C/T] TCCTTTCTAATAGGACCAACATCTCAACTTTGGAAGGACTGAGAAGTTTCAAAGTGCAC
 4792 CaTSNP7779 GCAGATTACAATATTCAGAAAGAATCTACCTGCACCTTGTCTTTCGCTCCGTTGGTGGC [T/C] TCTAAGTGTGCTCTTTTAGCATATTTCTCTGTCTGAAATTTGTGTTACTCGTATTACTCT
 4793 CaTSNP7780 TGGACTCAATCTGGTATCAACTGTTCAATTTATATCACATACGAGTAAATGAAGGTGATT [C/T] AATCCACAATCTAGTAATACAGAACAATTTGATTGCAAGCCTTTATTTATCACAGGGGC
 4794 CaTSNP7781 AGGCTTTATTTAAGCACAATAGACATGTTCTTACATCAACTTTGTATGGTTGTTAAATG [C/T] TGTGACAATTTCAATTTGTTGGATTGTGTTAAAAGTTTTtGATTAGTTGAATGGATAT
 4795 CaTSNP7782 AGAGAAAaAAAAaGAATCACTTTTTtGTTATTCAATTAACATCCCACTCACAATCCGAA [G/T] TTTCCGGTTCAGGAATCTTGTTCAGTCAACCCTCCCAAAAATCACAGAGCCACCAC
 4796 CaTSNP7783 TACGATTTACTGAAAAGGGTGAGATTAGTGTATCGCAGAGGAAGTAAAAATGACAT [C/T] GATATGTGCCTATGCTCTCCATATATAGGCTCTTTTGTTTATCGCTATATTCAATTTGGCT

4797 CaTSNP7784 AACTTCAAAAAGCCTCTGCAACATCTTCACAATATAAATAACTCCTCACATTCGAACCATC [C/T] CCGTGAATCGGAAGAACTTTTCCTTGCATTGCCAAGAGGATGAACTTTGGAATTAACTTT
4798 CaTSNP7785 AATCATACCATAAAGCATCTCTGCTGCCGATTTCGATTAACCTCGTTTTGTTCCTCATGGGA [T/G] GACTCAACATCCAAAATCAAATCAAGAGCATAATCATAGTACGGCACTTGACTGCTTAAT
4799 CaTSNP7786 TAGAGTATAATCTCCATCTTTAATAACTGGAACAGCTCCAAGGGCTGTAATTTGAGGTA [C/G] TCAGGATCCTTATGTTCTCCCTTAAAGACATCAACAGGGACAACCTCAAATTCAAATTTCC
4800 CaTSNP7787 GAAATGGGAGGCTCAAGTTGAACAAGACCTCGATAAGATGCTCGAAAAAGCTAAGGCTGC [A/G] AACGAAAGACGTTACATAGATGGAGATGACGATTAGTGATGTCTTCAAGGATTGCTACA
4801 CaTSNP7788 CTCCAACTTCTTCAATAGCATAACGAATGAATAAAAGGAAGAAGAGGAGAGAAAATACAGGT [T/C] TGGACAAATGGTTGTCAAATTTTTTAGACGACATAGCAAATCACAAATATCGAACAGGCCCT
4802 CaTSNP7789 TTATCGCTTCTTATGCCGACTATCGCCCGCGTCAACGGCCACGCATCCGCGCCGGATT [A/T] TGCTTGCGATTTTCCATGATTATGTTTTGATGAGGAGTGATCGAGGTGTGTTGTATATGC
4803 CaTSNP7790 TCAATTGGCTTATGAGAGAAAGAAGCAGCTCAGTAAATGAGGGCAAAGGCAGAGAAGAT [T/C] GTTGACGAGAAGCTTGTCCCAACTTGAAGTCTTGCTCCTGTAAAGTACTGAGTAGTA
4804 CaTSNP7791 GCACTAATGAAGAATCCAAGAGTGATGCAGAAAGTACAAGACGAAATTCGTAAAGCGTAC [G/A] AAGGGAAGGTTTTATAGAAGAAGAAGATGCTAAAAAGCTTCCATATCTAAATGCAGTTA
4805 CaTSNP7792 CATAGTATCTTCAATTATCATCTTCCACACACCAGTTCAGCCCGTCAATGCTCTTGGAGC [T/C] GCAATTGCTGTCTTCGGGACCTTCTTATACTCACAGTCAAAACAATAGAGTTGTGGAACA
4806 CaTSNP7793 CTCCATTGCCAGTAAGACCTCGGCTACATAAAATTTTACTGCCTGCTCAGGAAAGTGCTT [T/C] CCTGGTTGTTTCTGCCTAAGCGTATGAAGGTCTCCACCAGGACAGAATCCATCACCAAG
4807 CaTSNP7794 GAGTAAAGCTCGTGCAGTCTCACAATGGGTGCAAGAAGAATCCTCAAAACCTGAACT [G/A] TGGCTAGCAGCTGTAGAGCAGAGTTGAAGCATGGATATAAGAAAAGAGCTGATATTTTTA
4808 CaTSNP7795 AGTATGTTTCATACATCATCAGCAAAGTTCATCATCTAACATTCTTACCTTTAATCCACTG [C/A] TAAATGGAAGGTTACCTTAAAGCTTCTGAACAACTAACAAGCTGATGGTGGTTGAATT
4809 CaTSNP7796 ATCATCAATGGACATATGATTTACTACTGAGTTGCCTCACTAATCATCATCTCCATGGCG [T/G] CGTCTCCTCTTTTCTGATTTTTTGACATCCCTACCAATCCTTGAATCTTTAAATCCATCA
4810 CaTSNP7797 GGTGGGAGGGAAAGTTGTGGAAGTTGTCTTCGTAAGGGTTTTGGAAGAGGAGGATCGC [A/G] GTTGAACATGAGGAAGTAGCGGCCCCATTTTTtGtGAGTGAAGAGTTGAGAAAGTGAAA
4811 CaTSNP7798 TTCCCATGATGTGTCTGCCCTCTGTGAATTTTCTCCAACCTTTGGTCTCATCCAGTTA [T/G] TACATGTAAAAATTTTCATGGAAGGAAACAAaTCATCCACATCAaaTCcAcCtGACAAaTtC
4812 CaTSNP7799 ATCGGTGAAGAGGGAGTGTAAGTGTTCCTTTGTGATGAAATTATCAAGCTTTGGTTT [C/G] CACATGCAATGTTGAAGAATAGGCATGCACATACTTTGACATGGGGCTTTGTATTTTGCT
4813 CaTSNP7800 CTCTCTATCTCTACGAAACGAATCTCAGGGCTCAACTAAGCTCTCTCTCACGGATCTCG [A/T] TGTGCTTGCAATCAAAATTAGGAATTAGGGTTAGGGATTGAAATTAATGTGTGTGTTT
4814 CaTSNP7801 CTCCCACTAAGATCATAACATGTATCCAAAAGAGAAAGCGCCGAAGCAGGTGGATACTT [G/A] ACATGCCTTTTTTGAAGGCATCTCGAAGTACAGAGTAAGCGGTTGGCGGCAACCGTGTA
4815 CaTSNP7802 GCTCTGTACTTGACTGCTTCGCCAGATGTCATCATCTTCTTCTTAACAGTGTGAT [C/T] GGGTAAGATGCTAGACCTGCACCATTGGTGATGAGCCATCCAAGTCCGAAGCTAGCAAAG
4816 CaTSNP7803 ATCCATAACTTGTATCCCACTAGTACCTCTACTAGGGTAGCGATCCCAAACCGACC [A/G] GACGGACACTCATATGCCAAGTGACCACGACCTCCACAATGTGACAAATCATCAATGGC
4817 CaTSNP7804 CATCACATCCAAAATACCATCACATCCTATGATGAGGAATTCGTATCCTCTGTTAGAAC [T/C] ACTTGGTGGAACTCAGGCTCTGCTATCAAAGGTGAGGGAGTACCTTAGGTAACCTCATG
4818 CaTSNP7805 GTTGATGTGCGATTTGTTAGGATCATTTTTGTGTGTATATCTGCGCTTAGATCTTTCTTTT [A/G] TAATAGAATGATTTAATGCGTTTGAACAATGTAATTTTGATTCACTGTCTCCATTTAGT
4819 CaTSNP7806 ATCTTTGCCACTTGCTTGTGTTTTGATATTGTAACAAAAGTGTACATGTGTGCTAATCCT [G/C] TTGGACCCGAAATAGATTTTTGGAACAAACATTACCATAAAGATAAATTTGGTCTGTGATCC
4820 CaTSNP7807 AAGCCGATAGACAATACAGCTTCTGGAGATATACCATCAACTTCTTTGTCAATGGCATTG [G/A] CTGGCTGGTCAAGGTAGTTATCAAACGCTCCGCCTTTACGTTTCACTGGTAAACCTGCTC
4821 CaTSNP7808 CATGAGGATTGGACCAGCCACTAATAAAAAATCCTGCCGCCACCCTCAGCAGCCGAAAGC [C/T] TCATATCAGAAGTCTCAAGGTGCACAAAGCGAGAATGATCCAAAATAATACAACATTTTT
4822 CaTSNP7809 ACAGCACGCCCTACAGGATCAGAAGAAGCTTCCAGAACATAAAGGAGATATAATATTA [A/G] CAACAATGAAATTTGAAATCGTAGTCCATCAAATATTTATGATGAGAAGAACAAGAAGA
4823 CaTSNP7810 CCAACAACAACAAAAATCAACCAAGAAACTAGGATCATATCCATTGCTAGAAGTAGC [T/C] AAGATATAATAAGCAACAATATGACCTATAGAACCCCAAGCCAACACATCAACAAGGTTA
4824 CaTSNP7811 TCTGTTTAGCAATAGACTCCTGAAGGATATGAGAAATTAAGCTTGAGTTGAGTAAGTTGAT [T/C] CGTTTCCGCTCAACGATCCAAAGATAAGAAGCGGATAAAGCTAATAATAAGGTTGCCAG
4825 CaTSNP7812 GAAAAGTTTATTAATTCATTTCAGAGAAATCAAGGTTGAATGTACTATACCTAAAGACGA [C/T] GGCACGTTGCAATCTTATGTTGGATTTCAGAGTTCAACATGATAATGCTAGAGGTCCTATG
4826 CaTSNP7813 TGTAGCAATCCTTGAAGACATGCACATAATCGTCATCTCCATCTATGTAACGCTTTTCGTT [C/T] GCAGCCTTAGCTTTTTTCGAGCATCTTATCGAGGCTTGTTCACCTTGAGCCTCCCATTTT

4827 CaTSNP7814 GTCCATCTCAAGAAGAAATGTCTTCTATGTTACATTTGTCTCTCGTACAGACTAAAGAGACC [G/A] TGGCTATGAATGAGGTCGTATGTCTCTCGGATATGTGGAGAAACCTTCACACCAATCATGA
4828 CaTSNP7815 TTCCGATGGCAAGATCCGTTACGAAGATTTTCATCGCTAGAATGGTCGCTAAGTGAAGCTA [G/C] ATCATGCAAAATCGAATCGGTTTAAATGCTTTTTCTTCTTTCTCTAGTGTTCGTTAT
4829 CaTSNP7816 AAAGAAACTTAGGCTTACCAACAACAATCTTTACTTCTCGAAGAAAGTTTCAAACCTACA [C/T] AGCACACTCAATCCTAAACAAAACAAGCTTTAGCGAGGCAATGAATCTACGGCCTCGA
4830 CaTSNP7817 GGTATGCGGTTTAAACGGCGTTGGATGCGGATGCAACGAGAATGAATACTATGCTACTGT [A/G] GCAGAGCCTATGTGTGAACCAATACGCCAAGTCTGGGCTTGGTTATTGTGATGTTGTT
4831 CaTSNP7818 GGATTTTCATATTTCTATTGGGGACATAGGATATTGCACACAAAATGGTTATACAAGCATGT [C/A] CACAGTGTACATCATGAGTATGCTACACCAATTTGGACTTACATCGGAATATGCCACCCT
4832 CaTSNP7819 TTCCCGCTAACCAATGAAGGACTGCGGTTTTTGAAGCCTTTAAAGAATCTATGCACTCT [A/T] TCCTTGGAGTCTTGCAAGGTAACCTGCAGCTGAAATTAAGAAGCTCCATTCAGCTGATCTT
4833 CaTSNP7820 ATCTGATAATATCACCGGTGTTAAAAGATACCGAGACGATGATGTTAAACCATTTTCTGC [C/A] GCTGAAATTAAGAATGAAACAGGAGGCCAGCAGCTAATGCTCCTTTGGCTCATCAGATG
4834 CaTSNP7821 ATCAACCAAAACACTTAGTTATGCTAGGGAGTTGGAGAGGATTGTCTGAAAAGAAATGCAC [A/G] GGATGGTTTTATGTGTTTTCCCAAATGCTGATATTGCTGTTTTGAAATGTTTACTTCTGA
4835 CaTSNP7822 AAGGCCGGGTCAGCCTGGTCAAGCACCTCGCCCTGCTGTAGCTGGAGCTGCTCCTGTCCG [T/A] GTCTGAAAGAAAATATCAAGATTTTTAGTCGTGTTGGATCAGTTTTATGTGCCAAAACCCG
4836 CaTSNP7823 TACATGTGTGGATGGATTTGATAACACTACTACCGAAGCTGGTGCAAAGATGAAAGAGTT [A/G] TTGACATCAAGCATGCACATGGGTAGCAATGCTCTTGCCATTATTTAGATTTTGTCTGAC
4837 CaTSNP7824 GGAGGGTGAAGATGAAACTAAAGGTGTATACATTGCCAAACTTGAAGAGCTTGAAGAAGC [A/T] AGGTGACCCCATGAAAGAGCGTTACAAAGAATTCACGGAGAGGGGTACAATAATTGAACA
4838 CaTSNP7825 GCTAAAACCTTAGAATTTTCACATCAGACTTACACCACCACGAAATCGCTTCTTCATCAC [A/C] AACTGTGGAACAGAAAATGAAGCTAGCTAGTAGCAATGGACTTCGACGAGTACGAGTAC
4839 CaTSNP7826 CTAACCGTCAACCTGGAAGAGCCTTTTTGAATGCCAGTCTAATGCTTAGGCTTGTCTGT [T/C] ATGTTGAAATATTAGAGTTTGTATCACATTGGTTTTCCAAGAGTGAATTTGAATTTGTTA
4840 CaTSNP7827 TTTGCGGCATATGGTTTTGTCTTGATTGTAATTTGCGAGCCAAAGCCATCAAAGAAGGTT [G/A] ATGATACCACCACGAAGCCTGAGAACAAGATGAAGTGTGACTCCTTCTGGATGTTGTAA
4841 CaTSNP7828 TGTGGAGCCATAAGTCAAAGATGGAGCTTCCAACAATTCTATCTACCAAAGATGCCTTAG [C/G] TTTCCGGTCAATTTAGCTAATGTACCATGTCAGCTTAACTTCTGTAACCTCTGTATAGGC
4842 CaTSNP7829 ACTCTCTCCTTTGCCCAAACAACTAATCCCTCTAACTTCATGCTTTTCTGCAAACC [C/G] ATTTTCGACCTCGTGTCTGTTTTCATCACCGTCCAAATGTTTCTGTCTATGTTGCCTTT
4843 CaTSNP7830 AAGCTATCCATTAATAATGCGATAGAGTTGAGAATGACCAATCTTGATAATCGATTCCC [G/A] AGTGCAAAGTGTGTTCTTAGCTTCAAACAGTGAATGAAATGGAATTTCTCCTTGATAT
4844 CaTSNP7831 AAAGGAAGCACTGAGTAAGTGTCTGTACCATTTTATCCAATGGCTGGTGTCTTCTGTCG [T/C] GACGAAGATGGCCGTGTTGAAATGACTGTAATGGTCAAGGAGTGTCTTTATCGAGGCC
4845 CaTSNP7832 TAGTTCATCTGCTGCAGTTGGTAGCACAGGGAGTTCCATTTTTGGGTTGAGCTCTCAGC [G/A] ATGACAACTGTAACAGCCAGTCTCAAAGTCTTTTGGTCTGGCAGTGGTCTTTGTTT
4846 CaTSNP7833 CTTGACTATTGGCAATGGCAATTGTGTTTACAAAAGTATATGTTTGTATTGGTTTTCTGAC [G/A] ATATTCTTGATTTCAACTTCGAAATTTTGTGATTCTGGATATCGATCAATCTCCCTTAA
4847 CaTSNP7834 GTGGCTTTGATGCAAGGTGAGCTCAGACATCATAGGTTTATCCCAATATTTTTTATC [C/T] TCACTACTACTACAATTTTTAGCATTATTTGTTGATGTCAGTCCACTGGACATTCACAA
4848 CaTSNP7835 TTTTACATGGATATGCTAGCAGAATGCAGAAAGAACTCTGGATCCTCATTGAGTATGTAA [C/T] TGCCCTTTGTCATGTTTGGATGGTTACAACCTGCAAAATGTGAGATCGGAAGAGCGTCTG
4849 CaTSNP7837 GCAGATTACAATATTCAGAAAGAATCTACCCTGCACCTTGTCTTCGCTCCGTTGGTGGC [T/C] TCTAAGTGTGTCCTTTTAGCATATTTCTCTGTCTTGAATTTGTGTTACTCGTATTACTCT
4850 CaTSNP7838 GTCTTATCATCAAAGGGGTTGCCATCAAACCAAAGGAATAAGAAATATATATTTATGTAA [C/T] GTAATGTGGGAAGAAAGCTTACTTTTATTATATAATAAATAGAACAAATAAATCACCAC
4851 CaTSNP7839 TCTCCGTTCCCTTTTTCCGTTACTGTACCCGTTAAATAACGGTTCTCAGCGCTGAAGGCTT [C/A] TATCAATTTTTCAATCGGCAGCGCCGCTTAATTAGGCTGAGATGTGAAGCCGCCGCTGGT
4852 CaTSNP7840 ACACCGAATGATCCATTGGCAGATTAATCTCTCTAGGTGCAGCTGATTTTTGTGGAGTGA [C/T] AAAACCATCAAGTCCCAATAATTTCTTAAGTCTCTCATAACACTCCTCAAGATGTGCATT
4853 CaTSNP7841 ACCCATGCAACAACCTTTCGATCTTCCATGCTCCAAACTTGAACATAATCATCTTCTCC [A/T] CCCGTCAAAATATATTTTCCATCCATGCTCCAAGCACAACATAATAAAGCACCATAATAA
4854 CaTSNP7842 TTGCACTTCTTAGTATTGATGCTGTTTCTGATAAACTACTTTCCAACCTCATCCTTGTAGCT [G/T] CTCTACTTCACTGGAGGATCCAATTTGTCTACCAGTAATGACTTCAAGTAGAATAACACC
4855 CaTSNP7843 AGCTAGATTGGTCAAGAACTTGCAGATTAAGGAAGAAACAAGGCTTATAGCCGAGGC [C/T] GCTGATTTGATGCAAGAAATGCGGTGGAACCTTTGGCGCAATGGCAAAAACCTGAGAAA
4856 CaTSNP7844 ATCATATTCTCAGACTCTAGATCACCTCTTCTCCAGATTCTGCATTATCATCATCAGA [T/C] TCATAGTCTGATGATTGATCATCATCAATATCATAAGGAGCAAGGATGCTGCTGTCAAGC

4857 CaTSNP7845 ATTAAGCAGTCAAGTGCCGTACTATGATTATGCTCTTGATTTGATTTTGGATGTTGAGTC [A/C] TCCCATGGTGACATGTTACAGAGGAACAAAACGAGTTAATCGAATCGGCAGCAGAGATG
4858 CaTSNP7846 ACACCCATGGCACAAGATCTTCCACAAAAAGATGCCTCCAGAAGCTATTGATCTTGCTTC [T/C] CGGCTTTTGCAGTACTCCCCAAGTCTGCGTTGCACTGCGCTTGAAGCATGTGCACATCCC
4859 CaTSNP7847 TGAACCTCAGTGGTGTGATTCAGGAACTACATATACACTGAGAGTTGCACTTGCATCTGC [A/T] ACATTAGCTGAATTGCAGATTCGAGTCAATGACCCCAATGCAAGGCGGCCACTATTTACC
4860 CaTSNP7848 AAGACTCATAATTTAATTCAAAAACAGTACCATCAAAATCAAACAACCCAAAAATAAG [G/T] TCGACCATCGCCGATCAAGAACCCAGTTTTTGCAAGTTTGGCTGCATAAAAAACGGCAAAAT
4861 CaTSNP7849 GAAGTTCCAAATCCAGTTAGATTTCTCTTCGCCATTTCTATTGAGATAGGAAGAAGTTC [G/A] TCTAAGATAGTCATCGAGTTTGAATATCGACAACCTTCTCGTATCGAGTGTCTTTGTG
4862 CaTSNP7850 TCCAATAACACCTAGATTTGTACACGTGAGCTCAGCGGGAGTTACCAGACCGGAAAGGCC [C/T] GGACTTGATCTCAGCAAACAGCCTCCTGCAGTTCGATTGAACAAGGAACTGGATTATATC
4863 CaTSNP7851 AATAAGAAGAATAGAGAGAGAGAGAGAAAAATAAGATTTACGTAATCGGAAGAATGGG [C/T] TGTTCCTCTGTGTTTATGAAAAGAGTGTCCACAGAGTGTCAATTCCTCAGCGAACACC
4864 CaTSNP7852 TTCTGGAATAAATGATTGCAGTCAGGTCTGGGCAGGTCTTTATCAGGAAGCCGTTTGGC [C/G] GTTGTCTGTGGAATCGATGCTCAAAGTTGCGACTATAACAGCTTCATGGGAAGCACTT
4865 CaTSNP7853 CCAGTTCTCCTTAACAATTTTCGACTTTTCGAGGATGAATTTTCTTCTTGTACTTCTG [A/G] GATGCCTCGTAAGCTCTTTCGTATTTCCAACCCAGCACTTCCCGCAATCACCAGTAA
4866 CaTSNP7854 TGGTGTAGACACAACTTCACTGTACAGCAAAGCAGCAGATGATGCTGAATTTGGTGA [C/T] TTGTATCTCTCAAATGGACTACACTTCTCATTCCACCAACAACCTCTTATAATCTTAAAC
4867 CaTSNP7855 TGGCTTGGGTTAGTGGTAAAGACATTGAAACAGAAGCAGAACCCATTAATAATTATTATT [T/G] GTTTGATTTGGTTTGTCTTTGTTTCAATGTCTTTACCCTAACCAAGCCACCCACAAAA
4868 CaTSNP7856 AATGCTAATATCAAAATCCACTTTAGGCTGAATGATGAAGTTTCTTCTCTTATAGGCTC [G/A] CGTATCAGTAATGCAAATCGCCTTCACATATTTCGACCCGAATACAATCACTATCTGTG
4869 CaTSNP7857 CTTCTCGAGGAGGACTTCCACGATCTTATCAATTGCTTCACGGTTGTCTTTATATGTGT [C/T] AATGCAATTTTATATGCTTCATCTGATAACCTCTTGACAGCGGTATCAATGTCTTCTGCA
4870 CaTSNP7858 GAGGAACCTGACAAAAGAGCTGGAGACCTATCATGCTGAGGCTATGAATATCTCATAATAT [T/C] CGAATCAGCAAGTTTTTAGTCTAAATTAACATATTGGCTTCTTGTACAGAAGCTGTTTTT
4871 CaTSNP7859 TGTTATTTTGACTTTCACTTGTGTTTGTGATGCAGCTGAATTTGTGAAAAGATTAGGTTGCC [T/C] ATTAATCCCTCCTATTGGCTGAAATATGGAGTCTTGTATCAACATATCTTGTGATGGAGT
4872 CaTSNP7860 ACAAGCTCTTGAACCTCAAAGTAGGAGTTAATGAGTTTGCACCTTCTTACATCAAGAA [A/G] CAGCAACACCAACGCGCACTTTCGCGCGAAGTCCAATTCCTTCTCCGACTCACTCTCCT
4873 CaTSNP7861 TGGCTTTATTGAGTTTACTAGTCGTGCTGGTGCTGAAAGAGTGCCTCAAACATTTAATGG [C/T] ACTATTATGCCAAATGGTGGGCAGAACTTCAGATTGAACTGGGCAACATTTAGTTCTGGT
4874 CaTSNP7862 TCTTGTAACGGAACCGCTGTTGGTTCGGTTTAGCTTCGATCGTCTGTGTCGAAGCTAA [C/T] GTGCTAGCCCTTTTGTCTGAAGTTATGTCAGCAATATTGCTGAAGTTATGCAAGGAAAA
4875 CaTSNP7863 ACAATCTCAAACAACCTACAGGGATAGGGCAGCTGAGAGAAGAAGTTGTATGGCTCGTC [G/A] TCTTCGGTTGGCAATGATTTGGCTGACCTTGAATTTGGGATTCAACTCGAGATTTTTCA
4876 CaTSNP7864 AAAATGGAAAGCTCTAAACAGGAAGCGAGCAAACGATGTTTATTTGTTTACAGAGTGTC [A/C] AATTGTTATGGTCGAGGAAAGCTTGTCTGTCTGTTTGTGTTAGGAACTGGTTTGCCAAAC
4877 CaTSNP7865 AATCATGTGCTGCTGGTGTATAATCTTCCAAGAATTAGTAATGAAGTAGACATTGTTCT [C/T] GATCAACTCTATTCTGTTATTTCAAACCTTATTGGGATTTCAGCACGTAATTTGGTTGAT
4878 CaTSNP7866 AACCACCACCACCACCACCGCCACTGCATCAGATCCAGATCCTCTTCAAGACCTCTGTGT [C/T] GCAGACCTTCTCCTCCGCGTTAAGGTGAATGGATTTCACATGCAAATTTGGCATCCAATATA
4879 CaTSNP7867 TTGGTCAGCTGCTTGGTACTGGGAAGCCTCCAATGTGATCCAAGTATATTATATCAGATG [T/G] TCTATTTTGCAGTTTGTATCTGTCTGGCTATGACTACAATATTAGTAGTTGCATATGACTA
4880 CaTSNP7868 GCGCTTACGTCTTCTGCCCAAATCCACTGACTCTACAGTGGCAGCACCTGAGTCTGAGTC [T/C] GAACTGTCTTCGCTGCAGACCGACTCTCAACCCACTCAAATTTGTTCAATCTCCTACGTGG
4881 CaTSNP7869 CAAGAAATTCCTTGTTCACAATGTTAGTGTATTTGGAACCTTCTCATGATGCACAACAGGAC [C/A] TACTGTGCTGAGATTGCTCACAATATATCCACAAGTAAGAGAAAGGAAATAGTTGAGAGA
4882 CaTSNP7870 TGCAACTCCGGTACAGCGAGCATGTCGTTTGCAGGAGGAACAGGCCACTGATCGCGCTG [C/T] AATTCATCTAACAGCGAATTAAGAGTGTATTCACCCTCAGATGCAGGCAACAAAAAGCGC
4883 CaTSNP7871 ACGTTGATTTCAAGCGCTGACCCGCGAGTGTGTGAGTATTTGGCTAAGGTCACTGTTA [A/G] CAATCCGATTTCCACTTCTATTCCAATCTGTGAGATCAGTTACTCCCTCAAAGTGTCTG
4884 CaTSNP7872 CTCCAACCTCTTCAATAGCATAACGAATGAATAAAAGGAAGAAGAGGAGAGAAATACAGGT [T/C] TGGACAAATGGTTGTCAAATTTTTTAGACGACATAGCAAATCACAATATCGAACAGGCCCT
4885 CaTSNP7873 CACATATTGGAATACCCCTTCTAAACTTGATCCAATTTCCATCAAATAATTTATTTCTCTT [G/A] TAACATCATATAATCATTAATCATGGCTCTTCTGGGTTATTTTGTGCTTTTCTAGCCC
4886 CaTSNP7874 TTTAAAATTCCTGAAAAGGCAATTTGCTTAGCCATTTGCTTTGATGAACCTAAACGATTC [A/G] TCTTGCACCAAGGCAAGTTGTGATATTGTTGCACCATCTCTCCTCAAATTGAACATA

4887 CaTSNP7875 TGAATAAACTACAGGATGCAATTCCTCCAGAAATGGGGAGCTTAAAAGTTTGACGCAT [C/T] TGTACCTAAGCTTCAATAGTTTCAAGGGTCAAATCCCCAAGGAGCTAGCAAATCTTCCTG
4888 CaTSNP7876 TGTATGACGTGTAGAAAAGCGCTGGGGCTCACGGGTTTAAAGTGAAGTGCGGGTTGATG [C/T] TGTGTGGGACCCACCCTTACCCGGAGCAGCACGCGTGCAGTTTGTATTTAAGGGGTTGG
4889 CaTSNP7877 GTCTGATACTAGTTGGTTGTATACGCTGTTGGCAATGATCGGAGAACAATTTGATCACGG [A/T] GATGAAATCTGTGGAGCAGTTGTGAATGTTAGGAATAGGCAAGAGAAAATTTCTATTTGG
4890 CaTSNP7878 TGCCATGGAAGGTGGAACCCACCATCATTACCAACGCCGAGGGTCAGAGAACCACTCC [C/A] TCCGTTGTTGCATACACCAAGAACGGCGACAGGCTGGTTGGTCAAATTGCCAAGCGCCAG
4891 CaTSNP7879 CAAACAACGGTTCCCTCCAGGCAGGATTAATTAATTTGTGAAGTAAATAGTACTAGATTA [A/G] AGAGAAAGAAGATGGGGCAATGATGTCGAGGTTTGGTTCATGTTATCCCTGCAAAAG
4892 CaTSNP7880 TTTCTGAACCTCCCTAAGCTGAACCTGAGTTTCAAAGCAGTGAAAGAAAACAAAATGAGG [C/G] AATCTCTCATACCAAGTATCTTGCATTTTCGTGAGTGTCCCACTGTTCCCGCTACTGCTC
4893 CaTSNP7881 GGGCACTGAAAGTGATCCAGAGTTCAAAGGGTACCACAATGGCAATTTCTGATCCTCGTGG [C/G] TTTGGACACATTGGCATAACTGTTGATGACACCTACAAAGCATGTGAAAGATTTCAGAAT
4894 CaTSNP7882 CTTCCCCGTAAATGCAACAACCGGTTTCATCAACATCATTCTCATCCTTCTCATCATCTTC [G/A] TTATCATCATCAATTACATCAAAGCCGATGCACTGAACACACTACCTCCTCCACCTCCT
4895 CaTSNP7883 ACTGTCATCGGACCAGCAAACACTCTCTCGCCGGAATGCTGCGCTGGCAATTCGTTTTCC [A/G] GTTTGGAGAAGAACCATTGCATCTTCCATTAGTCTAAATGGCAGCATGCTTCACCCAGA
4896 CaTSNP7884 TCAAGGGAAAGAATTTACTGTTTTCCAACCTAGTCACTATTTGTGTCTTTGGCGTCTGGC [T/C] GGTATAGTTGGTGGATTGCTCGGACTCGGAGGAGGTTTCGTTATGGGTCCACTTTTTCTG
4897 CaTSNP7885 CCTTCTCAAACCTACTACCCATGTTCCCTCCACCTCTGATGTAGGTAATTCATAAGTGC [T/C] CTCGTTGAAACACAAAATCCAACGTTAAACAAGCTGTTTCCAACCTCACTGGAACTC
4898 CaTSNP7886 TTTGTATGGTTCTTCTCATGAAGAGAACCAGCAGTAATGTTCTGATCAGACAGAACACC [G/A] TTTCCCAATAATCTCAACTTTTGGCTAAATAAGTCAGACAGTGAAGTTGAGAATAGACTA
4899 CaTSNP7887 GCCAGAACTTCTCCAAATGGACCAACAAGAGTGGAGTGACCCCAAGCCACATAACCAGAT [G/C] CAGCATCCCAGCAGGTGAACAGGTTGCCACATATAACTGATTATCTGTAGCCCTGGCCC
4900 CaTSNP7888 AGAGGAATCTTCAGGAACAACAATAATGTTGATGAAAAATCTAGGGCTAAAAGTGATAG [A/G] TCCAAGACTCTCATTTCCGGAGAGAAGGAGGAGAGGTAGAATGAAGGATAAGCTTTATGCA
4901 CaTSNP7889 TATGATTCTACTGCATATGTGACTTTTAAGGAAGCTTATGCCCTGGACACTGCATTATTG [C/T] TGAATGGATCAATGATTTTAGACCAATACATTTCCATTTCCGCGTGGGGAGCTTATACTG
4902 CaTSNP7890 TTCTTATTCCTCTCCACCACCACCCTAGTACCAGTCTACTCACCACCACCGTCACCGGT [C/T] TACTCACCACCACCATCACCAATCTACTCACCACCACCAGTTTACTCACCACCTCCACTA
4903 CaTSNP7891 TACATAGAGCATTCCCTTGCTACTCTCACCAGCAAATGCTATAGACAACATTTCAAGCTG [A/C] TCAGCATACATTCGGATGTAAGGAAGACCTGGTCACTCAACTCCCTGAGAGTGATAAC
4904 CaTSNP7892 TTACTTATCCTATTTCAGAGAACCCTTCCATTGCTGCCGTAACCTTACCATTTTCGCTA [C/G] TGTACTACCTTCTGTTAAATCCATTTTCACAGATAATTGAATCGCTGATTAATGGTGTGGA
4905 CaTSNP7893 TATATCATCAGTTTCAAGGATACCAACAATGTCATCATCCTTCAATAAGATGCTTTTC [G/A] CCATTGAAATCCACCTCAGTACCTGCATACTTCGAATACACAACCTGTGCACCCGGCTTC
4906 CaTSNP7894 TAAGTTGGCTGTTGGAGCTGATTTTCATTGTTTCAAATATAAAATGAACCTAAATGGGA [G/A] GACCCCATTTGTTCTAATGGTGGAAAATGGACTATGACTTTTTCAGAAGGAAAGTCTGAT
4907 CaTSNP7895 AATCAAGACTGTTGATGCTATGCGTGTCTTATGGAGATGATTACTATATTTGCAGATT [C/T] CAGGAACCTGGCAAGATGGAAGCTCAAATGGCTGAGGTTGGCACTGCATATGTGTTGAAA
4908 CaTSNP7896 TTGCCTAGGAACTAAAAGTTGACTCCCTTTGGATGCGAGTTGAAGTTCAGCAATATCCTG [A/G] CCAGAATTTGAGTTTCTGATAATTGACACTTTTGTCTTGCAGAAATTCATCTTTTCAA
4909 CaTSNP7897 TATCTTGAGTGGAAATCTGCCTCTGGCTTTGATTTCGAGTACTTGCCGAGTGTATTATGT [C/T] GGCAACATTCATCCTCAGGTTACAGAACCCTTCTTCAAGAGCTTTTTTCAAGTGTGCTGGC
4910 CaTSNP7898 AGCGTCGAATGTGTTCTCCAAAAATATTTATTAACCGATATTGGATCTCCAAGTCGGC [A/G] TATATAAATGAAGCCTTCTGGTTCTGGAAATAAGTCTTGAAGAACCCTGATGGCACCC
4911 CaTSNP7899 CAGCAGAGGATGTCCCTAGACTGAGAAAAGGAAAGAGAGGATGGACTGTTCAAACCGGATC [C/A] GCGATTCCAAGAGGCAAGAAGTTTATTAGGAGTGAGGTTTGGAAAGCTATGACTACAA
4912 CaTSNP7900 CACATGACTGATCCAAGATCTGATGGACTTGGTGTGTCTACATGCATCCAGAGCAGCCTT [A/G] TAGATGCTGGTGTGTCCCTGAGGAGGTCAACTACATAAATGCACACGCAACTTCCACTC
4913 CaTSNP7901 CGTAGCAAAAACATACAGATCCATGCAAGTCCAGCTGTGTGCCTCCCCTGTCTTGAGATA [G/A] AGAATGGCCCCACCAAGCGGAAGCATCTGCGTCTCCAGCAGTGAACCTCAAGTTTGGCT
4914 CaTSNP7902 CTTCTGACCAACAGTTCTATAATCAAAGGGCAATCATGTTTATCAGAGTAGCGGTGCAT [T/C] GAACAAAAGAGGTTGCCACATTTGCAGCTGAAACCAGTTAATCCAACACGTTTCCGGCAA
4915 CaTSNP7903 GGAGTTTTTGGCGGAGAGGTTTGTGGGAGTGATGGAGAAAATCTGTTGAAACACGTGTT [C/G] TGGTCCAATGGACGTGAGACTGATGAGCCTACAGCTGATAATAAAATGTGTCCCGCTAAG
4916 CaTSNP7904 GCAACAAGGTTACCAACACAAGAAGGGCACACTTCCAACATGGATCGCAAGGAGATTC [G/A] TCCCAAACTTCCAACCCTCTACTGTTGCCAGCAAGGTTATGCTACCAACCAACAAGGA

4917 CaTSNP7905 TAAAAAGTGACATGGGTTAATCATATTGACACTGTTTCTCTCTGCTGTTTCAAAGA [C/T] GAGTCTTAAATTTACTCTGCTTCATGGGACAGAACATTCAAATTTGGAGAGTTTCTGAT
4918 CaTSNP7906 GATATATGAGTACATGGAGAACGGAAGCTCTCAAGAGTCACTGTATGGTTTCGGAATTTCCC [G/A] AGCTTAAAGTTGGAAGGAGAGACTCGAGATATGCATTGGATCTGCTAGAGGACTTCATTAC
4919 CaTSNP7907 GAAGGGGAGTGTCTAAGTTTAACTTTTGTATTCCGAGTTTTGTGCCGTTTCTTCTATCC [C/T] ATTCTTCGTGGATTTGACCTGATGTGTGGCTTTTGTGAGACGGCAGTGTGAAGAAGATCA
4920 CaTSNP7908 TGGGAAGCGTTTGGCATCAATTGGATTGGATAATACTGAGGTCAATCGACAGGCTTACAG [A/G] CAACTTTTGTGACCACACCTGGTCTTGGTGAATACATCTCCGGTGCCATTCTTTTTGAG
4921 CaTSNP7909 GAACCACGACTATGTTCTGTTTCACTATCCAGGAAGTCCAGTCCAAATGTAGCATCTACTC [G/A] GAATCCTGCATATTTGAGTAGGAGCCTCTGAGCCCTTAGTGAGTGATAGCTTGGTTGGA
4922 CaTSNP7910 CTTCCCAATAGCCTGTAGACCTTCATTACCAATATTAGGACACGAGTCTATCGATAACTC [A/G] ATCAGTTTTCAGGCAGTTTTTTGCTACTGCAACTAAAGCCTTGTGAGAAATTTGGGCAAC
4923 CaTSNP7911 TGTTTTAGCCCTCATAATGATTGGTGTGAAGGACCAGAATGATAGACGTGATTCATGGCA [C/T] CATGGTGGATGGACTGTAAAGACAGTGATATGGCTTTTGTCTAATTGTCCTTGTCTTCTTC
4924 CaTSNP7912 CACCAAAGTAAATCCATCAGATAGTCTGTAATGTTAACTGAGGAACCAACCACAAACC [T/C] GACATCGATGAAATAGCGCCTTTTCTCGGGTTCGATTCCGATAGGATTATTAATAGCCAT
4925 CaTSNP7913 TTCTGGGTTTGGATATCACGAAGACTATTTGGTCCATTCCACATAGCTTGCAACCTGA [C/T] GAAGAGCTGCGCAAGGAAATGGGGTTTGTCTAATACCGATTGAAATAAGGTTTAAAAAGA
4926 CaTSNP7914 GATGAAGCTGGGAAAATTTAGCAGACACACTTGATAATTTTGTGGAAGCCACTGATAACC [C/T] CTGGAAGTGAAGGATCTTTGCTTAAATGAAGTGAAGAGAAATCAAAGAGCTGAGAGAG
4927 CaTSNP7915 TCTTTACTGTTGGCCTTGCAATTTACAAATGGCTTCATTTAAAACAGTGTCTATTCGGA [A/G] TACGAAGAACAGCAGAAGCCGCAATGTCCGGTCTGCAAAATCAGAACTCTCTCAATCCTCC
4928 CaTSNP7916 AGCACCATCAACAGGCTTCCGGATTACCGACCTCATAGGCTCATGCCGAGACAGCTCT [C/T] GGACATCGAAGTCTTCTCCCATGGGCTTCTCCAAAGTTGATGATGTTGCTTTAATTGAT
4929 CaTSNP7917 CGACTCGGCGTGGCTTAGGGCAAATGAGAGGCTCCTTGTGATCAGTAATGGTAACTGAGC [C/T] TCTCATCTCTTCACAAGCTGCAAGGGCTTCTGCTGAAGACTGTAACAGTTCATCTTCAA
4930 CaTSNP7918 ATTGAAAGAACGCAATTACCTTGGATTGTCCGATTGCTCATCGGTGGACAGTTTCTACTGT [A/C] CCGAGCTTGTCCGATGAGAAAAAGAGAATCTAAATTTGAAAGCTACGGAGTTGAGGCTA
4931 CaTSNP7919 ACAAGTACTGTCCTTATTTATTTGGTAGTAGTATATATACGCACACATAAAGTATATATGA [T/G] GTTCTAAAACCTAAGGATGATGAGGGTGGGGCTTCTCTAAGTCTCAAGGCTGGAAGGGC
4932 CaTSNP7920 GCTAAGCAAACCACCAGATTCAACAACCTTCAATAGTGCCATTGAAGAAGTGCTTTGATA [C/T] GGATGCTCGTCTATCTCATAACAATAGTGCCACAAGATCGAAACTTCCAGGCTGCAGG
4933 CaTSNP7921 CTGCTGCGGCTGTCTCTTCAACCTAATCTTCAAACCTAATCCTCACCGTCATAAATCCT [C/T] GGCATCGCAGTCTTCTATTTCTGGCTCATAGTCCGTCCCAACGTAATCAAAGTCCACGTC
4934 CaTSNP7922 ACTGAAAGATAGAGGAGTTCTTGCCAAGGCAACACATGACACAATTTATTCGTTTCACTCC [G/A] CCACCTTGCATAAGTGACGATGAGATCCGCAAGGTTCTAAGGCACTGGCTGATGTGCTT
4935 CaTSNP7923 TATTGAGAAAATTAAGAAATGTGTTGGTGATCCTGAAGCGGATGTGGAGAATGAAGTTCT [T/A] AAGATTGAACAAACAGCACAGATTGGAGGAGGATCTCGCGCGATGTCCACATTTTGCCA
4936 CaTSNP7924 GGGGTCGACACAAGTGAATATCAGTTGAGTGGCCATGGCTGAGTTGATAAAGAACCCA [A/C] GAGTGTGCAAAAGGCACAAGAGGAGCTAGACAAGGTCATTGGTTTTGAAAGGTTATGA
4937 CaTSNP7925 GATGATTCAGGCTTTTCATAAGGAAGGAACTTGAAGGCTTCTGTAATGTCAAGCAGCT [T/C] GATCGCGTGGTGTAGACTTATTAGTAGCGATCACCTTTGATTTCTGTTGAGCTTGTGA
4938 CaTSNP7926 AGCTAACACTGCTGCTGAAGTGGCCTTGGAGCTTGTAAAGCCAGGAAAGAACAAGGA [T/C] GTAAGTATGCAATTCAGAAAGTGTCTGCTGCTTATGATTGTAATAATGTCGAGGGTGTG
4939 CaTSNP7927 TGGTCACATGCCCCATGGGAAATTCAGCATGGCAAGTTCAGCATGGAAAATTCGGCAA [G/A] CATGGGAAATTTAAGCACGGAAAGTTGGCAAGCATGGTATGTTTCAAGGAGTGAAGTGA
4940 CaTSNP7928 TTTCTCTTTGTTAACGGTCTCAATTTTCAAGATTCAAGAGATTGATCTTCTTTGACATTT [G/A] AGACTTTCTTCTTAGCCGCAAGAAGACAACGCTCCGAATCCTCAAGATCTTCTTTTGC
4941 CaTSNP7929 GGTTAGCATAATCGCGATCTCCTCAGCACGCGCACCAAGACGCGTGAGAACTAATTTCTAG [C/G] TCTTACGCGAAACGACGCCGCTGTTGTACCGTCAATTAACCGGAAAGCCTGAGAAAGC
4942 CaTSNP7930 ACGCTGCTGGATGGAATATCTTTTGAAGCTTCAACTCCTGCCGGTTTGGATTAACATTTG [A/G] CAGGGACTTCTGTTGTTCTTCAACTATTTCTGTCACCTGCTTGTCTAGAAATACCTCTT
4943 CaTSNP7931 CACCTTTTCAAGAGTTTCTTCAATTGCTTCACTCAATTTCTCACTTCTCTTTCTT [G/A] AGAATGTTATCACAAAAAGTGGCAAGAAGTTCAGCACTAGAGTTTCCAGCAACACCTTTG
4944 CaTSNP7932 CATCTTCTTCTGACGTATCATATCAACCACAAGGCCACATGCTTCTTTCCTCAGCTTG [T/C] CCCACAAATCCAGATGCAAAAGGCAATGCTTTTCCACTGACCTCGAGACCTAGGCCTTTT
4945 CaTSNP7933 TGCAATGTCCACACCATGGTGCATAAACTCAACCAAGACATCTTTGGTTTTCATCCAAGA [C/T] AACTTCGTTGAAGTTTTTCAAGGTTAGCACCACCTACACTAGATGGCGCAGTAGCAATTTT
4946 CaTSNP7934 CTCTTGCAATTTCTTACACCTTTATTAAGACCCTCCTCACGCTGCTTCAAACCCCTTG [C/T] ACACCAAACAACCCCTCCGTTTCAACCTCGGTAGTCTTCTCAACGACGCAACATCATTA

4947 CaTSNP7935 AGCTCCGCATGCGCTTCCGGGGATAACAGCAATTCCTGCCTATTAGCTAGCCAGCGAAC [G/C] ACATCAAATCATTTGTAACCGTGCCCGGTTGGGATCTTACCCCAAAGGTATATAGCTCCT
4948 CaTSNP7936 TTTGGGTTTAGTTGGAGATGCTAAACGAGTTTTGGAGATTCTAAATAAAGAGATTAAGGA [C/T] GATCCTTTTTGTTTTGGGAGCAATCATCCATGGGTGGAAGCTATTTGTAATAAAGCAAAG
4949 CaTSNP7937 CGTGAACATGGAGGTTCAAGCGGAGTTTATGGAAAGCGCTATGGCTGGATCGACCTCTCT [A/G] TCTACACCGGAAGGAGAGGTTAACAGTTTGTATGCAACAGGTTGCCGATGATTACGGACTT
4950 CaTSNP7938 TGCTGCCGTCGATCATGGAGGCAATTTTGAAGAGGAAGTTATCGGGGAACCACGAAGATA [C/G] CGATGACGAGTTGATGGATGAACCTCGCAATGCAACCTATCGATGATGTGGATGATAGAGA
4951 CaTSNP7939 AGAGCAAATTTTCTTGGTGGAGATGAGACATGTGATTTCTTCTCAGATGAACAACCACC [G/C] ACTCTTCAGTGGTATTTGTTCCGACGATTGGAATTAAGAGAAAAGAGTTTTAAACTTGGGG
4952 CaTSNP7940 TTCATTTAATTCCTTGGAAATTCGACCTTTCTCTCCTCTCTTAAACCATGCCCGGTATGC [C/T] GATTCCATTATATCCGCTGATTCCTGCACCTCTTCTGCTGCAGAGAAAAAACGCTTTTT
4953 CaTSNP7941 CAAATCTGCTAGCTTTCTTCTCTCAGCAAGATCTTTCATCTTAGATATCAAGGAAGTCTT [G/A] GACCAGTTCTCATGCATAAATAACAATGATTTGTGCTGAGCACTTCTGACCCTGCATGCA
4954 CaTSNP7942 TATGCAACTTAAGCTTGTTCCAGGAAACTCAGCTGGCACTGTCTACTGCCTATTATTTATC [C/T] TCAAAAGGAGCAACTGGGATGAGATAGACTATGAATTTCTAGGAAATGTAAGTGGTGAA
4955 CaTSNP7943 CACCTGGTGGACTGGCTGTTCTAAATCCAAAATTAACGATTGTGAGAAAGCTGTCTGTC [A/C] TGCAGCTAACACTACATCCAATGGGAACGGACCTTCAGAAACAGCAGATGATGACTTGCC
4956 CaTSNP7944 AAAACTCGTTTAAAAGCTGTGCCGTCATATCTTTCAATCGTGGACAACCTGAATAGAGTG [C/T] CTTCTGGGGATCCCAACCAATTTCTCTCATCAGATGCCCTGATGGATATCAAACCAATGAGG
4957 CaTSNP7945 CTGCAACTGAGAATATGAGATCCGAATTACTGAGCCAGAAAGTGAGGTGGCATGCTTGCA [C/G] ACAAGGGCTTCAGTAGCCTGCTCCTCAGTATCAAACCTGAACAAGACCTTGTTCCTCCCA
4958 CaTSNP7946 GTATAGGCAAGCTATTACTGCTGCTGGCACTGGGTGTATGGCGGCTTTGGATGCAGAACA [C/T] TTCCTGCAAGGGATGGTTTACAACAGGATAAGAGTGATTGACTAGATACTAGAGGGTGT
4959 CaTSNP7947 CAGGGTCTAGTTATGGAAGTGGATTTGGTAATGGATACAATGGAGGAGAGATTGATGAGC [C/A] CGAGAAGCAAGTGGTTACTGAATATCCTAGTGGATATGGATTGGAACTTTGGATATATG
4960 CaTSNP7948 AAGACCGCCGTTACCGGAGAACACAAAGTCAAACGCTGTTATTACCAAACGGAATCTGGTG [T/A] CCTTCGCGGATTTACCAACGGCTTCAACGCCCTCTTCGAAATTCACAACAGCGTCCACA
4961 CaTSNP7949 CAATGCTGATGAGCTTCTTGAAAGTTTCTTGAAAGTTTCCCGAAGAACCTGCCTAGT [T/C] CAACTACAGTTGCTGACAGCTACTGTCAAGCTTTTCTTAAAGAAGCCAACCGAGGGCCCA
4962 CaTSNP7950 GCTTGATCTTTGCAAACTTGGTTCGCTTACTTTTAAAGCTCCTGACAACGTTAAGTATCC [G/A] TCCATGAATCTTGCCTATGCTGCTGGCCGTGCTGGAGGCACCATGACAGGAGTTCTTAGT
4963 CaTSNP7951 TGAAGGATGAGTATGATGAAGATTTGTTTGACTACTATGCGACCTCTCAGCTTGTTTTAG [C/T] ATCTTTGGATGGTACTATAAAGGATTTTGGACCACCAGCTGTTTATACCTCTATGGACCC
4964 CaTSNP7952 CTTTTCAAAAAGTGTCTGGTTCATAAACTTCAACAAGTAGCATTTTCATGTAATCCATCCTC [A/G] ACTACAAAGTCAAATGTTTGATTCCAAACAGGATTCAGCTGTTGTTTCAACACCTGGT
4965 CaTSNP7953 TGTGATGGTAAGAGCTTCTTGTTTACATATGGGGTTTTAAAGACATCTCAAAGCTTCTT [T/C] ATTGGATTGCTTCGAAGTATCCTCCATGCACCTATGTCATTTCTCGATACAACCTCTTCT
4966 CaTSNP7954 TGAATATGGAATTATTGACGGGTAATCGATAGCGATATGATTATTCCTCTCATGCCAGT [A/G] CCAGAACAGGTGGAAGCAACACTAAACACCGATGATAAGGATTTCTTAACCCCAATATC
4967 CaTSNP7955 TTCTCTTTCAAATATTCAATGGCTCTCATCGTTAATCTTCTTATTTGGAATCCACCTCAA [C/G] TTCAACAATGGTGTGGACACAGGAAGCCAACCTCTCGTGGATTGAGTGCACAAAAAAG
4968 CaTSNP7956 TTCTAGACTTCGAATGAGTTCAGGAATGTCATCAGAGTAAAATACTCATGAATTATAGT [C/T] ACAACTTCCTTTTTGTACTTCTCCTACTTTCTCATCTTCAACTTGGTAATCCCATCTTCA
4969 CaTSNP7957 TCCTAACTATGAAAGCAGTGTGAGCGAGAAGATACAAAGAACCATTTAGTGAGGTATC [A/G] ATGTTTAAAGAAGAAATACGACCATCTTCCAAAGGATACATACTTTGGTATGTACAAAGAT
4970 CaTSNP7958 TAATGGGAAAGTTGTGCCCCGAGCTTCAACAGGTTGAGTTGACTGGACTTAAGGGAGTGA [A/C] CGATGCTGGGTTGCTTCCACTGCTTGAGAGCTCTGAGGCTGGTCTGATTAAGTTAATCT
4971 CaTSNP7959 CGTTAAAGGTAGCTTCTTCTTGAGTTTCTCGATATCGGCCTTCTTGTAGATTGTGCGGG [C/T] AACGGCAGGTCGGTTACGGCGTTGGTACAGTGTGTAATACTTAATGTGCTATACGGTTTC
4972 CaTSNP7960 AGGAGGATTACTCATTTGAATTTCTTTAGCTCGTGCAAAATACACTACCTGCATATGATA [T/C] GTGTCGTGAGCATTTTTTTACCACATAAATTTCAAATATGGTGTTCGGTAGATGCTGTG
4973 CaTSNP7961 AGCAAGATCAGCTTTCTCTTTCGCCAACTCTGTGCTCTTTCAATTCGCCACAACCTCTT [T/C] ACCAACGCAATGGCTTCATCGAGTGAACCGATCTCACTAAACTCAGATTTCGATGATATCC
4974 CaTSNP7962 CGGTTGGAATTTTGCTAAAGAGACCGGTTTCGATGTGGTGTGATTAACCCTGGTACAGC [A/T] TTGGGCCCTTTGATTCCACCAAGAATGAATTAAGCATGGCTGTACTTGTGGTGTCTC
4975 CaTSNP7963 GCTAAACATTTTACTTCTTCTACTTGTGGATGCTCACAAGATTCATTGATTTACTATG [C/A] TTCCATCTGGATTTAATTCACCTCCATTATTAGAGCTGCTTTATCCAAGAACCTGAATT
4976 CaTSNP7964 TTGATGATCATCTTGATGACATAAGCAAGGATTGGCTAAACCCAGGGCTCTCAACTGAT [C/T] GTGGCCCTTATTGTATCCATTTAATCGAGTTTACTTAGCAAGTGGATGATGTTTCATGCA

4977 CaTSNP7965 CAGATCATCAAATTTTTTCAGGATCTGGTTTTTCACCAGTTTCATTGACAGGGGTGGTACT [C/G] TCGCTATTGCAAACATCCAGTTTAGGCTTTTTATCCTCCTTTTCCTTGCCTCCCTCGGGT
4978 CaTSNP7966 CCTTCAGTATGCTGATCAGATAATGGGACTATTTGTCAGGGTCTTTGCTTGTAGAAAATGC [A/C] ACTGCCCATGAGGAGGCCATGCTAGCTATCGGAGCCCTTGCCATGCACTAGGCCCTGAT
4979 CaTSNP7967 ACCAGTGTTCGACAGTGTAAAACATTTCTGGGGATGCTTGGAGTCTCAACAGAGTTTGC [A/T] ATGAACATTACTTTCAATCGGGAGAGAATACAGAAGGCTTTACCCGCTGGTTATCTCGAT
4980 CaTSNP7968 AACAAATGAGCAACTGCTTCTATTTTCTCTCTCTTTTGAAAGATGAGTTTCTGATGT [T/C] AGGCTAAATATTATCAGCAAGCTTGATCAAGTGAACCAGTTATTTGGTATTGACCTGTTA
4981 CaTSNP7969 AGTTCGAGTTGCCGTGACACAGCTTCTTTGGAGACCCAGGGTTTTGTTGGTGGATCAGTT [C/T] GATTCCAAGGAAGATCTCATCAATGCAGTTTTTACTTCTTCTTTATTCAGGATATCTT
4982 CaTSNP7970 GACATGCGAACCCCTTGAGCGTGAAAATGTTGCAACCAACGATGCTTTGGAATCCGAGGT [A/T] GGAGCTGGATCCTCCAAGAAGAATCGGACAACCTCCGCTAATGCCAGTGTCTTGAAGCTT
4983 CaTSNP7971 CCGATGAGAAGGAGATTGAGAGGATGGTGTTCAGAAAGAAGAAGACAGACCTGTTGAATA [G/A] GTATGTTAGTGAGGTTCTCATGGAGGAGCAGACGGAAGCCAAGGACATGCTTAACATTCA
4984 CaTSNP7972 TTATCCCCTCAAAGAATTTATCCCCTTTATCTCCTCTTCTATTTTCTCTATTGCTTCT [C/T] TGGCTTGCTTTAGAGCTATTTCTGGTCTTCCCCTGGTACACATAGCAACCCATGCTA
4985 CaTSNP7973 ACAAGGTGCTGTAGAGGATGGAGCACAGCCTGAAGAGGAAGAGGAGGTCGATGAAACTGG [T/C] GTGGAAGCCCACGACATTGATCTTGTAAATGACACAGGCAGGAGTGTGAGAAGCAAGGCT
4986 CaTSNP7974 CAGACCTAAGGTCGACGAGATCTCACTCCTCACCGTTAATTCCTCCTCCTTCGTTGCGGA [C/T] TCGTATGGCTATATGGTTGCATTTGCTGGTCGGAATATGCGACAAAGTCCCCTCCGGCT
4987 CaTSNP7975 CCATCCAGATGTTAAAAGAAGGCTTCTTTTTGTTTCCCAGAAGTAGTAGTATATGAGGC [C/T] TCTATCTTCGATGGAGCTTTTCCCATAACCGAGCCTTTTCCATTTGTCTACGAAACTCT
4988 CaTSNP7976 GTGATGAGCATTAGGCTTTTGGCCGTTATCTGTTTACTTTCTGTAGAGATGTACATC [G/A] TACAGAAGAGGATCCCAAAATGGAGTAGGAAATGGATTGTTCTGGAAATGATGAGTTCTT
4989 CaTSNP7977 CAACCTTCCAATTTCTTCTCATCGACGCCCTCCTCCTTCTCCTTCTTAATGATGCGGC [C/G] ATGGGGCTGGTCTTGTAGTGTGCTACGGGTAGAGGATGGACAACAGGTTTCCAGGATGGAA
4990 CaTSNP7978 GTTCCAGGTTAACTCTAACAAGCATCCACGCGACTCTGGCTCAGGGCCACTAATTTGTCCC [G/A] GTTCCAAGGAGATCGCCTGGCCTCAGGTTGCAACCATTGATTGTGTGGTGGAGCAAGTTGT
4991 CaTSNP7979 CATCGAGTTCCTTGGAAGTTTGCCTCAACAGTGGGCTTGATTGGAAGTTGTGGCTTGC [T/A] TCTATTTGTATTGGCCTTGTGAGTGGCCTTGTGCTATAGCTGGAAAATTCATTTCCAGTT
4992 CaTSNP7980 CTGTCCAGACCAGTGGAGTTAAAAGATTGATGATGAAGAGGAAATAAATTCCTGTAAGAC [G/T] ACTCAATTATCTTTGTAAAAAAATGGGTTGTTTGGTTGGTTTGTGGTTCTCATCTTGGAC
4993 CaTSNP7981 TACATCCTGAAATCCGTCCGTACACGTTTCTTTCATCAGTAAGCGCCGCGCTCATCCACGT [C/T] TGTACGTTACTCATCTGAAAGAGGAACAGTTCGGTTCCAGAGCCGGCGCTCCTAACTGA
4994 CaTSNP7982 TATGTTGATATATTACTATCTTTCTGTATGTTCTCTGGAATTTTTTGGGGCTTAAGGCT [C/G] GGAAAAGTTGAATGTTTCTTATATGTTAATGCTTCTTATGTATCTGGGATGAAAAAACA
4995 CaTSNP7983 AAAGTAACCGTACATCACTGATGCTGCATAGACCTGCCCTACCCTCAGTTTGGCTGATTTG [A/T] GCAACAGATGTTAAATCTCCTGCTCTGTTACCCAGAATGAGAGCCAAGTATTTGGATC
4996 CaTSNP7984 GCATATTGGCAAGGTAATCTTCGTGCCGGAACAAACAGAATAGCTCTGCTCAGTGTTC [C/T] ATTGGACTTCTAATGTGGGAGAACATTTTGGAGCATGGAACACAGGAATCCTAGGTCCG
4997 CaTSNP7985 ACACACCGTGAAAGATATTCACATGGATAATTTCACTATCTCTGTTGGTGGCCATGATCT [C/A] ATTGTTGATGGTTCTGTACACTCTCTTTTGGAAAGACATTATGGGCTTGTGGTAGAAAC
4998 CaTSNP7986 CCCTGTTGATTTTCTTATAGAACAGCTGATGGAAGATATAATGACCCTTTAATGATGG [C/T] GCTGGAAGCCAAGGAACTTTCTTCGGTAGAAATGTTCTTCCCCTCGATCAAAGAAAAG
4999 CaTSNP7987 CGTCAAAGTACTTTTCTTCTGGGTAATAATTTCTTGGAGTTGTTCCGGAAGGGTGATAACCT [T/C] GATTTCTCTGTTGGGGTCGCTTCTGCGTCTTTTCTTTAGATAATTTCTTTGTTTCTCCA
5000 CaTSNP7988 CTCAGAGTCTGAGACTTAGCAATATCAACTAGGATTTTAGCAGCGGGATGAACGATATC [A/G] AGAAGTTTCATAATGGTGGCGCCGTCATTAGAAATGGTGACGGAGCCTTTATCGTCTGG
5001 CaTSNP7989 AATCTTTGCTCTGGCCGTGTTTTACGATCCAGAAGAAATGCAGGAACAGCTCCTTCCTG [A/G] ACATTATCATCAGCCTTACGCCCTAGATGTCGACTCTTCATGCATGGCCAAAGTCTTCTTC
5002 CaTSNP7990 AACACTTGCTCCTGACTTTCATCAAAGGAGTAGAGCCATGAGATCAGTCTTTGATCTCCT [G/C] GACCGTCGTAAGTACTGAGATCGAACCAGATGATCAAGATGCTACTCCTGTACCTGACCGTCTT
5003 CaTSNP7991 AAACAACCTCATATCAATTTCTACTGCCGTCCGCAAGAACTAAGCCAAAATTTGTTGAAG [A/G] TTACAATGAGACTGATATGGATATGAGAGATCATTTCCAATGATTTTGGCAATACATTTTT
5004 CaTSNP7992 AGAAGAAGAAATGTAACACAGTCACATGTTATGCAACAAGAACTGGTGGAGGTGCTTGT [G/A] TTGAATTAGGAGAGTATGGTCTTGAAGGTGAGATTGAAAGGTTGAGAAGAGACAGGACTT
5005 CaTSNP7993 CTTCTCTTCTCCTCAAGTTTACTCTGAATATTTACCCTCTTCTCAACATACTGTTCTCG [G/A] GTGACGAGACCAACAGTTTCTTTCTTAAAGCAGTCTCAAGAATCTCGGAAGTGTGGAG
5006 CaTSNP7994 TGTCACGATCTTACAAAACCTAACATCAGTGGATGTTGAGATTTAGTGATAATGCTCTG [A/G] CTTACCTTGGCGGTTTCTGTAGAAAACCTCAAAGTTCTTAATCTCTGTGGATGTGTTAGAG

5007 CaTSNP7995 CTTCTTGGATTCTGAAGGGAGAGTCACAAATTCGGAAGCTTTGAGAAAGAGAATATTTTA [C/T] GGAGGCCTTGACCACAAATTACGAAATGAGGTTTGGGGTTTGCTTTTGGGATACTATCCA
5008 CaTSNP7996 TTTTGCATTACATCTCTAAGAGAATTTAAATCAGGCATGCCCCGTGTTCAAGTATTAGCA [T/C] CAAGAATCTGACTCAAAGTTTGGGGTTGGAAAGCATACTTTGCATCATTGTGAGATAG
5009 CaTSNP7997 AGCTAATCGGTATAAACTGTCCCTTATGCACAATTTGGTTCTAATATCCAACCTGATCCAA [T/C] GCCTGTTGGAGGTGGCAAAAGCTGTTTGCCTCAAGCGAGTTTGGTTTCCAGAGCAGAGCTT
5010 CaTSNP7998 GGGCTAGGAAAAGCACAATAACCCAGAAGGCCATGATTAATGATTATGATGATGTTA [T/C] AAGAGAAATAAATTTATTTGATGGAATTTGGATCAAGTTTAGAAGGGTATTCCAATATGTG
5011 CaTSNP7999 GCATAACACATCCTTCAGGAACAACCTACCCTGCACGTTTATTGCCAAATATTGTCCACA [G/A] ATAAAGCACAGTGAATGCTGTTAATGCTCCACATCCAGTACCAAATATCATTGCAGCAAG
5012 CaTSNP8000 GCATCACTTAGTTTTGGTTTTATTATCTCTTGCTTTGACTAAGGTTGTTGATCAGATAGG [T/C] GAGGGCTTTTTAGTTTTATTTTTAGAATTTTCTGGCAGCAACAAATAAGAAGGGTAGATT
5013 CaTSNP8001 TCAGCTAGTTTTCTTACCACAGCCCTACAACCTCAGTCTCCGTCGTAACCTCCAGCGG [C/A] CTCGACGCCCGCTCATCGCTCGCTCCCTTGTTCTTCTACGATCCGAATACTCATCCG
5014 CaTSNP8002 CTCCAAAACAACACTAGGATATTTCCAAGTAATCGCGGCCAGTCTCCACCTGGGTCCA [T/C] GATATCTTCGACCTCGCACCAGCACACACCTCTCTTAGTCACAAAATTATATATCCCA
5015 CaTSNP8003 TGGCAATTCATATCGGTTCTTTCTCCGTGATATATATGAGGATGTGATTCAGAATTTGGT [G/A] GATTTGTCAGCTGCGGATAATATTTTCATTTACAACCTGCCGAGACAACACATTGTAC
5016 CaTSNP8004 TGTTTACTTGACGGCCAGATCGATGGGTCCGGATGCCAATATCAACTCGAATTACAACCT [G/A] ACTTGATATTTCTCAATTGATTCTGGGTTTTCTTATCTTGTGAGACTTCACTTTTGTGAG
5017 CaTSNP8005 GCTGTTTTCTCACAGCCCCGTCCAGGTGCTATTTCAAGTGCAGCTGACCTGGTCGGTCTAAAA [C/T] ACTAACTCCGTCAAATCTTGACGATCTATTTTGTGCTGAAATTTCTTCGCTCCTCGGTA
5018 CaTSNP8006 CTCTCATCTGCTGCTGCCAACACAAGAAGCCTTTTAACTGGAAAAATACATTAGAT [G/A] ATCAAGTTACATGGTGGTCCAGAATTAAGAAATGAAGAAGAAGAGTTAATGGCAGAGAAA
5019 CaTSNP8007 GTTCAACCCGTGCTGTTTCTTGGCCTGCAAAGCCAGCACCACCTTCTGACATTTCACT [C/A] CGCAAATAGGAAAACCTGGAGGATCCTCTGAGAATGTTGCAAAGAGCTCTCCTATTCAACC
5020 CaTSNP8008 ATTTCTGTACATGAGTATCTCGTGTGACCTATGGGCCAATTGACCAAAATCATCATCTGA [C/T] TCATCATCTTCATGGTTTACATTTACAAGTGGCAGAACCTGGAGTTTCTACTTCTCTTGCA
5021 CaTSNP8009 GCAAATTTGTTGATATGCTCCCTACTAGCTCTCCATTGCTACAACAAATATTTGGAATG [C/T] TAGACTGCCATTGACAAATGAAGCTATTTGATTCCTACTCAGGTTAATTATGTTGGGAA
5022 CaTSNP8010 GCTCAACTATTTACATATAAGGCTGTGAGGACTGTTCTTACGCAACTGTATGAGATGAA [C/T] CCACCTAAATATACATGGTTTTATAATTTGTTGCAACAAACAACCAGCAGATGGAAAA
5023 CaTSNP8011 AGAGGCAATGGCTGAAAGCGGTGCCATAGAGGCTCTCTTGGAGCTCCTAAGATCTCATCA [G/A] TGTGAGGAACACTGCTGCAAGACTCTTAGAAGTATTGCTGAACAATGTAAAGATTAGAGA
5024 CaTSNP8012 TAAAGAATCAAATTTGTTGCTGTCAACAACTGTGGAAGAATGTGGAACCTGTAAGTTT [G/A] ATTTTTTTGTTTTCTGTTTAGCGAGTTGAGGAACCCGGTTTGGAGATTCGAGAAAGCCGAG
5025 CaTSNP8013 GCAATCTTAGCTACGGACGGGGCTTAAACCCTTACTTTATCGGCAACTCCAATAGGTTTG [G/C] AAGTCTGTTGGATATGAAAGTGGTAACGGAGGAAACAGTTCTTTCTCAGTTCGGTGAC
5026 CaTSNP8014 TCTACCAAATAAATATTTCTTTCTTGGATTGGAAGCCAGAACCAGATGTTTTATCTAAAGA [A/C] AGAGATAGAAGTTGACCACCGTTGAATATCTTAGCACGTTGATCACCCCATGTTAGATCA
5027 CaTSNP8015 AACCTTGGGTGTTTAAATATGTACTTAATTATGTTGCGGATGTACTCTCTGAAATCAA [G/C] AAGAAGGAGAAGTACATTTGGGTATTTGCAACAATGGTTTGGAAATTCATTGGTGAATT
5028 CaTSNP8016 GAAATCAATAGCCTTCTTCAATCCATTGTTAGCATCGTGAGAAAACCTTCTCCTCGTTGCG [T/A] ATAGAAGCATTAGGTCCACCGGTCTTCGTTTTAGCATCATAAGTGCCCGCATCGTGCCAC
5029 CaTSNP8017 AATTCTGAAAGTAATTTCTTCCCTATCAAGAGCTTCTCAGAAAACCTCTCTGCTTTCCCA [C/A] GCAAATGGCTCATCCACACCACCTTACGTGCCAATCTAGGAGCAATCAGAGACGATAAA
5030 CaTSNP8018 TAGTGATTGGGTTATGGAGAGTATGAATAACGGCACTGACAGTTACGGTGTACCACCGG [G/T] TTCGGCGCCACGTACACCCGGAGAACCACAGGGTGGTGCTTTGCAAAAAGAGCTCATA
5031 CaTSNP8019 ATTCCCGGAACAGATACTGCCGCAACAACAGCTACCACCGCCGCAACTACCTCAGGCACA [T/G] ATGATGAAACAGCAATATCTCCAGATACCATCGCAGTCAAGGTGACAGCAACTTTTTCAA
5032 CaTSNP8020 GTGGTTGGTTTCAAAGGAGAGTTAATTTGGCTTGAACCTGTCAAATTGACTTTTCACTGCG [G/A] GTAAAAAAGTTTGTGCTTCCATTACCATTCTTACTCGAAAAGAAATGTCCTGTTGT
5033 CaTSNP8021 GGTGTTCTCATCAGGGGAGTCCACAAGACATAGAGTCAAGTCCCAACAGTTTCTGGAGG [G/A] GATATAAAATTTGACGTTAATTTCTGGTTATAAACCTCCAGTGAAGTGAACCATCAAATG
5034 CaTSNP8022 GGTATTCTTCCCGAGGTTAACCAGCACCAACCTAGCACCGATGCTGTCCCAACGAC [A/G] GCGAGGTTCAATTAGGATAATCGGTTGACAGAGCAGGATAATCACAGGAAGAACAGA
5035 CaTSNP8023 AAGTGGGAGAGGGAGAGTGAACGTTCCGTTCCAGATAGGGGAAGTGTGCGGAGTCTG [A/G] GATTTAGTGGCAAGTGCAGGTCAGGATCGAGCCAGAAGACGCTAGGGTTTGGGTCG
5036 CaTSNP8024 AGAAATATAGAGCTTGGTTCAGTTTCTATCGAAGGCGCACGACCACCTTGAAGCAGAGTA [A/C] GCTGCCGAGCCACGGGTTGATCTGCATACAAATCATGCTGCCACGTCGTTCCGGAGCC

5037 CaTSNP8025 AAGACAAACAACATCCAATCTGGGGCATCTGAATAAACCGTCCATTCAAGCATTGATCCA [C/T] GGGTTGAACCGACATTATTATTCATAGCCATCAATTACAGGAAGAATGAACTTGAGGAG
5038 CaTSNP8026 CGTACAGCTCCGCTAGCTTTTCTCTGCATCCTCTTCCTCATTATTATTATTGTGCATCTA [C/T] ACCTTCATCAGTAGCTACATTCTGTAGAGCAGCAACTTCTGTGCGAACTTTAACAAGTTC
5039 CaTSNP8027 GAGAAGATTCTCTTGAAGCCCATAGCATCAAACATATCATAAACCTCATCAGAAGTTCC [A/G] AAGAAGTCCCTCCATCAGCAGCAATTAAGTCATTCAATTTTGTGCATCATATTTTTTTCAGCA
5040 CaTSNP8028 TTACATTTATTTCGCCTAAGAAACCAGATACTGCAGCTGTGAGTATCCAGGTCCCTCTAC [C/T] AATGTGTGGCAGAGTACCTATCATTGTCCCTCAGAAAGAAACAGCACAACCTAAACCA
5041 CaTSNP8029 AATCTCTGCTAGTTTGGTGGAAAGTTGGTGGTGTGAGCATTATAAGGCGTATATTCTGTTC [T/C] CTATCTATCTCTGTAATAGTACATGTCAAAATGGTATGTGCAATTGACAGTTGATTTTCAG
5042 CaTSNP8030 GAATCTACGGCTGCGTCCAGGTGGAGCCAGCTGAGCATTATTATACGGAGGCTGTGTATC [G/A] TAAATTATAAACTTGGTTCAGAGAAAATTAGACCTAAGCTTTCCGATGTAAGTGTACTA
5043 CaTSNP8031 GAGAGCGGGAAATCCTTCTAGAAGTTCGGTGATAGTAAATCGAAGACTTCGCCAGTTTT [G/A] TCAATTGGGCTTATAGTTGTGGGAGGTTTTGTTTCTCATTGGTTACTTGTATAGGGGCTCA
5044 CaTSNP8032 TAGGGTCTGGTGTGGCGTTTCGAGAGCACACTGTTTGAATCAATTCCATTCTTTCTCA [A/T] TCGGATTGCATCACTCTCCGATCTTCAAACCTTAAACAATGGTCAGAGGATTGCTCAA
5045 CaTSNP8033 CATCATATTTCTCTGAGTGTGACAGCAATCCCAAGTGGTTGACCTTCCCTGATCTTGAA [G/A] GTTGAACCGAATTCCTCGCCCAGTCTTAACAGGTCTCTGCCAGTGATCAGTGCTAGA
5046 CaTSNP8034 GAATCGGCTTCCGAAGAAGCCATTCAGGTCGGGACGAGACTTGACTAGTGAACCGGA [T/G] AACGTGGACGACGTGCCTCTGACTAAGATCTCGTACCATGAGCTGCAGGAACCGATTG
5047 CaTSNP8035 GAAGAATGGTTGCTGTAGAGATCTTTGCCAAGCATTGGGTACTGCATGCTGCTTGAAGAG [T/C] GATGAAATGCTTTTGTCTGAGGTTTATGAGCATAAGATTTATCGATATCTTGACATT
5048 CaTSNP8036 GAGGTTTGAATCACACTCTCATTCAAACCACTGCACTTCTTCAACTTGTTCACATT [T/C] GAATTTCCACCATTCTCATTAACAACATTCTTGTACCATCATCGACAATCTCGCCATTC
5049 CaTSNP8037 AAATAATTAATTCACATTACAATGTAGCTCAAACCTTCAGAAAGGTAAGGATCCTGCTGT [G/A] ACCCTCTCTTCTCTCGTGACAGTTAACAAAACCAGCATGACCATAAACAATAACACAAA
5050 CaTSNP8038 AATAGCTCTAGGCCACTCAGCTTCTGGAATGGCAAGTTTTTCACGCATTTCCACTGGAGC [C/A] GTGTGCACACTGAGCCCAATGACGACAATGCTGCTCCTTTCTCTTGTATACCTATCAGCT
5051 CaTSNP8039 CATTACAATTCGAAGTTTCAATTTGAGCACTCCAAGAAGAATTGACATTTTCAATTTTCAA [C/T] GAGTTCAGGAATGGTAATTCAGTGCAGGCTACCATGCCATACAGGATCCACTCCAAATGGG
5052 CaTSNP8040 AAGTGCAGGCTCTCCTACTTTCGTGATTTTCTGAATGTTTTGTGTTGGAGGACACCACC [T/A] CGATATTTCAAGTTTTGCTTTTCCATTTCTATATTCATTTCTGTTCTGTTCTGTTCTGT
5053 CaTSNP8041 CCTGTTGGCATGATACCAGGAATGAAGGAAGAAGGATCGGAAGAAGGAGGAGGAGAGA [T/G] ATAGCAGTTGTATTATGAGGTTTGCAGATAGTATCTGGAATCCTTTTGTTCAAATCTCTA
5054 CaTSNP8042 AACAGGCATGGCTACTGGAAGCAACAGGAAAGGATCGAAATATCATATTCATTTCTCG [T/G] TCTGTTGGAGTAAAAAGACACTAGTTTTCTATGTAGGCAGAGCTCCTAATGGTGGAGCA
5055 CaTSNP8043 AACACCATCTTTGCCACCCTGGCACAGAGAGAACCATCAGGTGAAACAGCAACAGTGT [G/A] ACATAGCCAGAATGGCCAGCGAGTGTGTTTCTCAGCTTGCAATTAGTCAGATTCCAAACC
5056 CaTSNP8044 TGTAACAATTCCCACTCCAACAGATGACCACAAAATAACCAGCCCAAAGGCATCGACTT [C/T] GGATATAAGCCATGTCCAAATTTGATGCAATGAGAAGTTCTACAATACAATGGCGAGG
5057 CaTSNP8045 TCGAAAAGCTGAGGAAGTAGTTGATCCAAAGCTACCTGAGATTCCATCTTCAAAGGCTCT [T/C] AAACGCGCTCTATTAATGTCTTTCGTTGCGTTGATCCTGACGCAACAAGAGGCTTAA
5058 CaTSNP8046 TATAGATGCAAGGTTGGAAGAGCTTTTGTATCGATGGTATTCTTTATGCCTTCCAAGAGCA [G/A] ACCAGTGACGATGCTAATGTGATGCTTAATGGGTTTGGTGCCGTTGTAAACTCGCTTGGG
5059 CaTSNP8047 AGAGGAAGAGCCAAGCGCGATGAGAACAACGAAGACGATGAGTGAAGATTGGATGCCATA [A/G] GAGACTTAGGAAAATCAGATGAGAAGACGATTGCGTAGTTCATCTGGAAGTAACCGAT
5060 CaTSNP8048 TCATGGTGGTAACTTTCAAGGAACACCTATTGGAGTTTCAATGGATAACACACGTTTAGC [T/C] CTTGCATCAATTGGTAAACTCATGTTTGTCTCAATTTCTCTGAACTTGTAAATGATTTTTAC
5061 CaTSNP8049 CAAATGCTTCACTCAAAGATGCAGCCGAAATCCAATATTCAGTCAACCAGACTATAATTTA [G/A] CCCCCAGAAGAAGACTTCCAGAAAGTTTTAACTAAATGTTGGGTGAGCAATGCATTGTAC
5062 CaTSNP8050 ACAATACGGACACCTGTTGCTACCAGCACTCGAAGATCCAGCAGTACAGTGGATCAACT [T/C] CATTGGCATTGATGACCTCTACACCAGACCAAGTGGTAGCTACGTTTATGTCCCAGGAC
5063 CaTSNP8051 TAAATGTTGGCAGATCAGTCCCTTTGTATCTTCTGTCCTTGCATCGCTTCCCTGGGGTTGA [T/C] CCAAATGACTCATCCGTTAAAGATTGTGCGCTTCCATGCAAAGTCAGTCTGACCAGAAG
5064 CaTSNP8052 CGATAAAAGAAACGACACCGCAATTTGGTCGCGCTCTTTCTCAGCTTCTTTCTGCGTTAAA [C/T] GATATTCCTGTTAGTTCAGAAAATACGAAGTTGTTGATCGTTAACGGAGAAGATTATC
5065 CaTSNP8053 ACTTGCTTCCAAGCCTGTTTCCACGGTCACTATTCGGTGGAGGATTTCTGTTGATTTGAA [G/C] AATGTTTCGGATAACTGTTGTAAGTTGAGTTTCGTTTTTCGAGTGAAGGTTCTTCACCA
5066 CaTSNP8054 ACACGGATCAGGGACCAATCCACCAATATTTGCTGAGAAACAGATTTGTGAGGAAGAATC [G/T] TCTGGCGGAGTAGAGACTTAGTCTTGAAGGATACATTGTGATAACTGAATCTAGCAT

5067 CaTSNP8055 CTGTGCATCAACCATGTTTAGTTACATTAATCTTTATGGACATTACCCTCCTGGACTCTT [T/C] GCCAGCGAGTGTCTGTAAGGGAAGTCAGGTCTAGCATGCCCGGCAATGCCGCCATCTGTG
5068 CaTSNP8056 TCACGTCGAGGAGAGAAAGCGAGTGAAGAAGATAAGAGGAAACGGTTATTGTGGAATCGA [C/G] TGGAGATTGAAGAGGGAGAGTGAAGTGGCGATGATGACGATGAGAGAAGGAAGTCCAG
5069 CaTSNP8057 TTTCTCAACACCATACTCAGTGTCTTTCTTTGCGACATATCCATCGCATACCCTTGGCAAT [C/T] GTTGCAACTGCGTCCGCAAAATAACTTGACTCTCGAATTATAGCGTGTCCGCCTGGTCTT
5070 CaTSNP8058 CACTGTCAACCTTGTCTCGTCATCCACGGACAACACTTTGAAGCTTTGGGATTTGTCTAC [A/G] TGCACGTCTCGAGTTATAGACTCGCCAATACAATCGTTTACAGGTCACATGAATGTTAAG
5071 CaTSNP8059 TACAATTGTTGGTGATGCATATATTCATCCATCTGCCAAAGTTCATCCATCTGCAAAGAT [T/C] GGTCTAATGTTTCTATCTCGGCAAAATGTTCTGTGTTGGTGTGGTGTGTCAGGTTAATCAGT
5072 CaTSNP8060 TATTTCCATCACCTTCTTCTCCTCTTCTCAATGCTCTCATCCAATTTGGAAAGTGGG [T/C] TGCACCATGCCCGCTTCCAAATCCAGGCTGAAAGGTTGATCTGGCAAGAGGACCATCCA
5073 CaTSNP8061 AGGGCAGACTGATATTCCTTCAATTTGCCGAGTGTCTAGTCTAGACAGTGGCCTCTAAT [A/T] TCAAAATATAGGGCATGTGTTGCGACACAGTCTGCAAAGTTGAAATGATAGATAATTTG
5074 CaTSNP8062 ACTCTTAACAGTCCAATAAGCCATTTTGTCCAAAAACGTTGTCTGCGTGCCTGATGTTTATT [C/T] AGATCAATCGTAACGTCGCTTTGTATGTTTCCATGGCTTGAAGCAATTCCACTTCCAT
5075 CaTSNP8063 TAAGGGCAGCGTTCAAACATATTTGGGTCGTCCGTGGAAATGTATTCTAGGGCTGTATA [T/C] ATGTTGTCGTATATGGGTGATCACGTGGACCCACATGGATGGTTGGAATGGAATGGAGAC
5076 CaTSNP8064 TCTTGCCCTAATAAGAAACTGAGGGTGTATTGTATGGTTGCACATACATTGCAGCCACA [T/C] CTTGTTGCTATTGGAACCAATATTGGTGTGTTATCTGCGAGTTTGTATGCTAGATCTCTA
5077 CaTSNP8065 AACCGATATGTTCCGTACTAATTACACTGCTCGAGTTTCTTCTTAAGAACCATGATGC [T/C] GAAAAGGCATTGAACCATTCTCAAAACAAAAACCTTTTGAATCTTCAGAAGTTACTTTTT
5078 CaTSNP8066 CAGTGTACAAAATATGAAAGAATTCTTTTATGTGGTTTGGACGATACCGAGGGTGA [C/T] ATCAGATCCTGAGCAAATTAAGATGTACTTAAACAAAATCTACGACTTCCGAAAGCCG
5079 CaTSNP8067 TTACGCAAGAGTAAGCACCAAGGGTTATATCGGAATGTACCAACAAGTTCCAAACCCGT [G/T] GATGTTGAGAAATCAACAGTTTCCAACAAACGTCGTCGTTTCTTTTGTCCGGTTAGAA
5080 CaTSNP8068 ACCTACTGATGACATAGAAATGGGCAGGAAAGCAGTATGGGAGATGAATGCTGGGATGGA [C/T] GATTGAGATAATCAACTAAACAATGACCGCGTGTCTATAAAAGATGGTGAGTTGTCTCTCT
5081 CaTSNP8069 CGTCTCCCAACACCTTCTTCCGCCAAATACGTCCTTTCAACGCCGATCCATCTTCCAC [C/T] GAATCCTACTCCTTGCAGAAATCGTCTACCGATCTCAATCCGGCGACCTCCTCGACGTC
5082 CaTSNP8070 CCTCCACTCTACGGTCTAGAGTATTCTCACAATAATCGTGCAACGGTTATTCATAGTTT [A/G] GTATGCATAGATTAGATTTTCAAGTTTGTGTTTGTAGTTGTCTCCTGACTAATGCAGTA
5083 CaTSNP8071 CTCTGCAGCTGCAGGAGCTTCAGAAATGGCAGATAACACAACAAGGTACCAAATAAGAT [C/A] GTAATCAAAGCAGTGAAGTTGACAAGTAGAGCCTCAGAACCATATTTGCCAATCCTGAG
5084 CaTSNP8072 ATTTACCTTCAATGAAGGCTGTCTCCCTTCCAGAACCCTTCTTTGCCATGCTCCCAA [T/G] AGATAAAACAACAACATAGAGCAATCACAGCGAAATCGACAAAGGCCCTTCGTGTTTTG
5085 CaTSNP8073 GAATGGAAGGAAGAATTGACACTTTATGTTAAGGATATTAACACACCAATAAACCTGACA [A/G] TTTGCGACAAAGACACTTTCAGTGTGGACGACAAAATGGGCGATGCTGACATAGACATTA
5086 CaTSNP8074 GAGGTTTTCTCATAGACCCTCTGCCATTCTTGTATATCTGGTCACTGGGACACCTCT [G/C] TTCCAACCGTCAACGTTGTACAACAATCAAACCATCTATGACTTCTCTGGCTTCCCA
5087 CaTSNP8075 CACTCTGTGCAGCACTTGCTTGATTTGGTCCCCTTCTTTTATGTTGAGTATCTTGATGGT [T/G] CCAGCTTACCAGTTCCTTCAGTCAACTGAACACTGTCAATAATTGGCACAATTTTGGG
5088 CaTSNP8076 AATCATTGCTGCTTGGTGTATAATCTTCCAAGAATTAGTAATGAAGTAGACATTGTCT [C/T] GATCAACTCTATTCTGTTATTTCAAACCTTATTGGGATTGAGCAGTAAATTTGGTTGAT
5089 CaTSNP8077 TGGAGGATCAGCAGTCTTTGTGGCTCGGAATAGGTTTGTCTGTGCTTGAAAAAGCAGCAA [C/T] CAAGTCTTTTAAAAACCTGAAGAATGAGCTTGTAAAAAGAGCGTGTCCCGATTGCC
5090 CaTSNP8078 GGGATTGACCCATTTTATGATGAGATTCTGCAAGAAGCTGATGGTATTATCCTTTCCCGTGG [G/T] AATTTGGGCATTGATCTTCCACCAGAGAAGGTTTTTCTGTTTCAAAAATCTGCCCTATAC
5091 CaTSNP8079 GGTGTTTTCTTGAATGAGCGACCTCAACCAAGGCTGAAAAAGGTGTCACCAACACTTG [T/C] GAAGTCTGTGAGCGTAGCCTTCTCGATTCAATTTGATTCTGTTCTTGGTTGCAAGATT
5092 CaTSNP8080 TGTATCATCAAGTATATGAAAAATGTCATCTTGAAGTTGAACACCGGAGTCAAAAACCGA [G/A] TTAAGACACGATTCGGCCGAGTCAACTCGGTAAGCTGACACTCTGACGAATTAACATCA
5093 CaTSNP8081 TTCAGCCGACGATCCCTCTGCCTTCTTAAGCTTCTGGAGAATGGAGGAAACAGCAGAACG [C/G] AGAGAAACGGAGTCAACGGAGTGGATGACATCACGAGTAGCACGAGGACGCGGAGG
5094 CaTSNP8082 CACATGCTAGCTTCATTGAAAGAACAAGAGTGGAAAAAGGAGATTGAAGAAATTTGTGAA [A/G] CACAAGCACTTCCATTGCTTTTATTGAATCATGTGTCTCTTGTGTCAGCTCAGTGTGG
5095 CaTSNP8083 CCATCCGCGCCACCTACGCTCGTAGTTTACTGGTGGACCGGACAAAACCCAAAATCCTCC [A/C] GGACGAAGAATTCCGGTGTATTTCAAGGAGATAAATCCACCAATTCAGTCCATGGGATA
5096 CaTSNP8084 ATTTAAGCCGAGTGGTGCTAATGGATCCTATGGGTTTGAATATCAGCCAGTAGAAGCTTC [C/T] ATTGCAATTGCTGGATGTGATACTACCAGCGAAATGTATTCTTGGATGCAGAAAGAGGA

5097 CaTSNP8085 ATTGAACAACCTTGATTGAAGATGCAATTATAGAGGCTGAGTTAAGTGGAGCAAAGGTGAT [A/T] AGTCTAGGACTTTTAAATCAGAAACAACATTGGGAACCTTATATAGAAAGGTTCCCACAA
5098 CaTSNP8086 GCTGGCTGAAAAATTGGAGTGATATTTTCAGATGCTGTCTGTTTCTGATGCTAAGCATGCATT [A/G] TCTAAAAATACCGAGGACAAAACCTGGCAAGGAGGTTGTGACTAATGTGTTCCGTGCTGCC
5099 CaTSNP8087 TTGCTTTGGAAAGGACTCTATAGAGGAACAAGATGAGAGATTGTTGAGTATAATACTGAG [T/C] TCTGTTTTCCCGTCAGTTCAAAGACAAGAGATTCGTCGCATGGTTAAAAACATGGCGGAG
5100 CaTSNP8088 TACAGACAAATCTATAAGCTTCAGCCAAGCCACGAACTGAACGAGCCTGATCATTTTTTCT [C/G] ATCTTCGGCGTGTCTGCTAGTTAAATCAGAAACATCATCATAAGCTGTAAACAGTTCTTT
5101 CaTSNP8089 CTGGTTCCAAAAATTTTCAGGTCAATGTGATAGGCCAGACCTTGAGGCCAAGTAGTCTGA [C/T] GGGAGTAATCTGACCAGGTATGATGCATTCAGGACCAGCTGCTTCCACAATAGCCTCATC
5102 CaTSNP8090 GTCACCAGTGCACACACCTTCCCGGATGAGGGCGCCTCCGGTGAAGCCCTTGAAGCAGCC [C/A] AAGCCAAAGGCGAGGGACCCAAATAAGAGGGAAATGAGCCTTGAAGAAAAACACAAGTTG
5103 CaTSNP8091 CCCTGGTCGTCAAAGATCATTTGTTAGCAGGAAGTGGGGATTACCAAGTTTAAACCGTCC [T/C] GATTATCTGAGGTACAAGTCAGAGAATAGGATTATGCCTGATGGTGTGAATGCAAAGCTT
5104 CaTSNP8092 GGCTCTCGCACTGAGTCCAGTTGTCTAGAGCTCTTGTGATCCGGATGGTGCCTGAGGGA [G/C] ATAAGGAATTTGGATAGTATTAGCTTTTCAGACTGGTTTTATGTCCAAAGTGGCACGCGG
5105 CaTSNP8093 AGAATCAGCTCTAAATGAACAGGCTGGCAAACCTATTGCTCGAAAAATTATGAGGAGTATGC [C/T] AGACATGCCAGGCTTTACTGGAATACACGAAAAGCAAAGCCCAAATTCAAAAGCGGG
5106 CaTSNP8094 CAATGGATGGGAAGGCATGATCTTCATTGGAGTAAATGCAGCTATAAGTGCAGAGTTTC [A/C] AACGAACTTGGACTTCGACATCCAGAGCTGCCAAATACTCTGTCTACGTGACAGTCTTT
5107 CaTSNP8095 AGGCTTGATCACATGTTCTTTCAAATCAGTGCATTTTCATCATTGGTAACAGTTTCATC [G/A] TGCTGTGTTGAAATTAACACAGTGTGGACACGAATAGGAACCATGGCACCTTTGTCAATTG
5108 CaTSNP8096 ACCAGGGCAACCTCCTTAAGTGCATTGGAAGAGGACTTGCAAGAAAATTCTCAATTGCA [C/A] GCAACAACAACAATGGCATACCCTCTTCTGAGCAACAGCAGCAGCAAGTAACTCTTCT
5109 CaTSNP8097 GTAATAAGCTAGCTCATAACATGGCTCGTGGAAAGATCCAGATCAAGAGGATTGAGAACAC [G/A] ACAAATCGACAGGTCACTTATTCAAACGAAGAAATGGTCTTTTCAAGAAGGCTAATGAA
5110 CaTSNP8098 ATTACAAGTGGCCTATACTATAAAAGCTCCAAAAATTCATCCTCTCTTTTCTGGTTTCA [A/G] ACGGTAAAACATGACAACAATGCAACACTAGAGAATCATTTCAAACGATCACAACGGGCT
5111 CaTSNP8099 AGTCCACCTACAGATGCTTCCGTGCTGTAGCTGAAAACGCTGTCCAGCTGTCTGGGAGT [C/G] GAAGTGTCTGTCTGATCTTTTGGATGAGTTATGTTGCAATGAGAGTCTTCCAGTGTGAGT
5112 CaTSNP8100 TATGATTATGATAAAGTGGAACTTGCAAACATGAATAGGCTCTTCTTTCGTCCTGATCAA [G/A] CTGGTATGACAAAGACAGATGCAGCTGTACAAACACTTTCAGATATAAACCTGATGTTG
5113 CaTSNP8101 ATCAATCTTTAACCTATTCACTGTGGTTCTCTGTGTTTGTGACTGCATATATCTGCCATTA [C/T] AATGTTTACAGCATAGATAAATGAACTTGAGGACTCGTCACAGATGCAAGGTGTTGTGCGT
5114 CaTSNP8102 GTATTGATAGACAGTGTGGATGGTTCTTGTAAAGCCTCTGGAACAAGAATCATCATGGA [T/C] TCCTCAGGGCTTCGACCCTTCTTATTAACAATTTGTCAGCACGTCAAGATTTGCCGAA
5115 CaTSNP8103 AGGTAATAATCGCAGAGCTCGATGGAATTAGAGTTCGCGCTTTCTTTAAGTGGTGGTCCAT [C/T] ACCGGAATTAATCTCCGGTGTGATGTTGTTTTTCGAGGTTGGAATGGTCACCGCGAAG
5116 CaTSNP8104 TAAGATGATACATAAAGGAAAGAATACAAAGAGTAGGATTATATCGAAAGTATTCTTGC [A/T] GGACATTCGAGGAAGCTTATAGAGGGCTTGTTCAGGTTCAAGTCTAAAGCGGAGAATGCT
5117 CaTSNP8105 GATTGATGATATTGGAGGCGTTGAAAAATTTGGATCCAAATTTCTCAAAAAGAAGAAAAGA [C/T] CAGAATCTTCTGTATTTATTTCTCCAGAGCAAACGGCAGATGCTTTACTTGAGTCAGGT
5118 CaTSNP8106 CGTTGTGTTTGGTGGTATGGTGGCAAAAAGTCTGTTATCACTGGCAACAAAACCTTTAT [T/C] GATGGTGTAAACACCTACAGAACCCTCTGTTGCTATTCAAGGAGATCACTTTACAGCC
5119 CaTSNP8107 TCAGCCAGGTTATGGGGTGCCCCAACCTCCCAAGCTGCTTACGGCAATCAACCTCAATC [C/T] GGTATGAGGCTGGATATGGAGCCCTCAAGCTCAAAGCCAAGTGGCACTCCACCTCCA
5120 CaTSNP8108 CACAGTTGGTGGAGATGAGAATATTGTGTTCAATATGTCGTTAAACCATCCACCATTTGT [T/C] CTAAGTGGACCATGACCATCTGGTGAAGTGTTCATGATAAAAATATTGAGGAATTGAGATC
5121 CaTSNP8109 TATTGTAAAGTCCCATTGTTTGATAGAACCAACGTTTCCAGTACCTTCATGCACCTTT [A/G] GCTCCATGTACTGAATCTGATGCAATATTAGGAATATGATGAAGTTGCTTTCTAAAAATA
5122 CaTSNP8110 CAACTTGAAAGGTACCAAATATTGTTGCACTATTA AAAACAAATGAAGTCATATATAAGA [C/T] GGAAAACACTACAATTAAGCAGCACCTTTCCCTTCTTCTCTGTAACCTCTTCATGTAA
5123 CaTSNP8111 AAAAAATCCTTTCAGAGGAGACATCATAGATCTGTCTTTAACAGAAAGCAAGAGAGGTT [G/T] ACTAGGATCAGAGCCATTATACAACCGCAATTCGGTTTCAAGTATTTACCAACCTGAAC
5124 CaTSNP8112 TTCACCGTCTTGTCTATGCCAAATGGATCGGATCGCGTAACGCTCTCATCCACTCCAAGAA [T/C] TGCAGCCCAAAAAACAATTGAAGATCCAGAGATCAATGCCTGGCTAGCCTGGGAACAA
5125 CaTSNP8113 TGATCTTCTACTCAACCTGAAAAATATCTTCATCGCATAGGGCGAAGTGGTCTGTTTTGG [A/T] AGAAAAGGTGTTGCAATAAACTTTGTACATTGGATGATGCAAGAATGCTTTCTGATATT
5126 CaTSNP8114 TCTCTTCTCCCTCTCCGGTCCCACTCCGATCCCTCTGTCTACTGGCTCTACGACACTT [T/A] CCTCTCTCCGACCTCACCTCCGCTCGTTGTTCTCTCTTCTCATCCCTCTCCTCTCCGG

5127 CaTSNP8115 TGAGTGTGGTCCGGTGGTGAACCGGCACTGCTACCGCCACTATAATGATTCTCGGAGA [C/T] ACTTGTACTCGAGGTTGCAGATTTTGAATGTTAAACATCAAGGACTCCTCCACCGCCT
5128 CaTSNP8117 ACATAACATAGGCTCTTAAATCAGTTCCCTGTAAGCGGGGCACCCATAACTTCAAGAACT [G/C] AGCAGATGTGTTAAGTCTTGTGCATGGCCATTCTATACACTTTATCAGGGTTGATTGTGAA
5129 CaTSNP8118 ACAGAACGTTTTAAAGCCAAAGGCTGCTAGTAAAAAGCTTGTGGGTGAATTGAAGGAAGA [A/G] CTAGAAGCACAAGATTTACCTACTGATGGAACCAGAAATGTTCTTTACCAGCGTGTTCAA
5130 CaTSNP8120 TCAACAACCAACATTTTCTGGCATAGATTCTTCTACAGTTTACCAAACAACACTGCACT [A/T] CTAACCTGCAGGATTTTGGAAATGGAAAAGTACTCCTAAGGCTAGCTCATCTTTATGAG
5131 CaTSNP8121 ACACCAGCAGCTGCCAGAATCAATTGGCCATGACAAATGCAAGCAATTGCTTTTCCAGAA [C/T] TGACAAACTTGGTCACCAGCTCCACAACACTAGGAATGTGAGCAAGATACTCCGGCGCCC
5132 CaTSNP8122 TCCACAGTTTGGTCTCGTTCAATTCAGCAGCATGGGTTTGAAGGAATGTGGATTGGAC [G/T] GTTGGTGATTCTGAGAATGTGGAGGGAAATCCTGTAGTAACTCTGGAACCTCAAGGATGAT
5133 CaTSNP8123 CTCTGTGGAACAGAACACTCTAACTATTAAGGTAAGTGCAAAAGAAAGTGATGAGGA [C/G] GAAGAAAGTTCGTAGATTCTCTAGTAGAATTGATTTGCCTGAGAAGCTTTACAAGATT
5134 CaTSNP8124 CCAGATCACAGCTCTAGCTTCCCTCGGTTACCGCTGTATAGCACCTGACCTCCGCGGATT [T/C] GGCGACACCGATGTACCGGCATCGCCGACATCCTACACGAGTCTCCATGTCTGCGGTGAC
5135 CaTSNP8125 ATCGGCGACGACCGCTTTTCTTTCAAGATCCCGGCGAGCATGTGACCGAACTCATCGTC [A/G] CCGAGTTTGCTTACAAACGAGCTTTGCCACCGAGTCTGGAAACGGCGATGGCTACGTTA
5136 CaTSNP8126 AGTGGACAATTGGATCCTAACAAAGTCTTTCATGGATTTCATGAACATAAATGGTGCA [A/G] TCAAGTCAAAAGTCAATTGAGATTTATTTAAGTCTCATAATTGTGTGCACTTACATTG
5137 CaTSNP8127 TAGCGTTTCTGGTCCACCACAATTCATGCCTGCTGGTAGCACTCCTCGTCCAACCAATC [G/A] ACGCCCGCTGGTACAGCCCCCGCTGCAACAGGGTTTTGCGAGTCCCAACCTCTCAAA
5138 CaTSNP8128 TATTACACCGGCGTTCAGAGAAGCGAGAATTTCCCGGAATCTTCTCTCCGATCTCT [G/T] TACGACGCGATTCCAGCGAACGTGAAAGAGAATTTAGAAGCAGTTTATTTTATTACCCT
5139 CaTSNP8129 CTCCAATGTTTGAGAAAAACAAGCATCCTATTGACCTCAAATCCTAATAGCTTAGTAGGA [T/G] TGGGAGAAGAAAGTTGTTTGTGTTGGCGATGTGGTGTAAAGAAATGCAAAGGTGTAGGTT
5140 CaTSNP8130 TCAAGCTGTGATATTCTGTAACACCAAGCGAAAGGTGGACTGGTTAACTGAAAAAATGCG [C/T] AACATAATTTTACTGTCTCATCAATGCACGGTGACATGCCTCAAAGAGAAAGAGACGCA
5141 CaTSNP8131 AAGTGGACTATTCAAGCATGCAATCACAGTTGGTAAGAGGGTAAGAACAGAGACAAACAT [C/T] GCGGCCGGAGCAGTTTCTGTGACGCTCAGCAGCTGTTGAATGGCCTTAATGAAGTTACCT
5142 CaTSNP8132 AATAAGTGCAAAAGTGTAGCCATCAGGATCCTTCACAAAGGCAGTAACAGTTGTTCTCTCC [G/C] TCAACTGGACCAGCCTCTTTAGTGATGTTTCCACCTTTGTACCTAATGTGCTCAACCAAT
5143 CaTSNP8133 CATCCTTGTTTCTCTTCTTGACAGATTTCTTTGCAAGTTTTATTGCTTGATCTTCTGAG [C/T] AGAATCCCTGAGACCTTCTCCTGGCACAACCTCATGTGGTGGCGGGAGACAGACCTAGA
5144 CaTSNP8134 GTGTCTGAAGGCTCAGAAGCAGCCGCTCCGCGGGGCTCCCGTAACAACGACGTGAC [G/A] ACTGACGGTCTGTGATCGGGCATGTTCTGTATGCGTCCATTTCTGTTGACTAAGTTGGCGTTG
5145 CaTSNP8135 TGCCGAGATAACAATAATCAGGATGCCGAAGCAAAGCTAATGTTGTCTCTGTCAATACGTA [G/A] CTCAAACCTTCTGAAGATGATGTGTCTGCAACTTCGGCAATCCTATTAGATCCCTTTGA
5146 CaTSNP8136 CCTTTGCCAGTTGTAATAGACAAGTGCATTTCAGTCTGCACCAATTGACACAAGGAGATCA [C/T] TATATAAGAATATAGTGCTGTGAGGAGATCAACAATGTTCAAGGATTTTACAGGAGAT
5147 CaTSNP8137 GTTGTTTTGGCTGTCAAAAGCAAGATAAATTAGGAATGAGGGATCATATAGCATAAACC [G/A] TTCCTAATATTACATAGGATTTGTTGCCTTTGGTACAATTTTAACTAGAAGCTATCCAAAA
5148 CaTSNP8138 TGTTGCTTGGTTTATAGGGGACTTGCTATTTAGAGCAATATTATAGCAAACCTCTGATAAC [T/C] GCCAGCAAAGGCTCGCCATGTAATTTTGAAGGAGCCACGGCAGTAAGAGTACC
5149 CaTSNP8139 CAACTAAGTACAGGCCAATTGATGAGATTGAATATTGGAATAAGGAAAGAGATCCTGTGA [G/A] TAGATTCAAAAGATGGGTAGAAAGGAATGGTTGGTGGAGTGATAAGGATGAATGGAGCT
5150 CaTSNP8140 ATCAGGAACAACAATATCAGATTTCTTGTCTAACGCTTCAGTGTAACTGTTTGGGGATT [G/A] TAAAGGGACCAATCTTCTTTCCGAATTTAAGTACGCGAGGAAGATTTAACCCTAAACA
5151 CaTSNP8141 CCACAACCTTTCCGGTGAACCTTGAATATGTGCATGAACTCCCTGAAAGACAAATCTCTC [A/G] TCCATTCCCTGAAACAGATAGAAGACCTTTTCATCTATAAATATCTTCACTACGTTCCATC
5152 CaTSNP8142 CATAGAGACACCTAAGAGAGCAAAATTTCTTTTGGAACTTTTATACTGTTTGGCTCTAAGG [A/T] TCGTCACTAGCTTGACTCTGCAGGAGGTTTTTCTTTGGATGTTTGGAAAGCATAATGATC
5153 CaTSNP8143 TTCACATGCTGCCGATTTGTTCAAGAGTATCCGTCATGCTTATGAAGTACTATCCAATGA [G/A] ACGACGAGAGTTCAGTATGATCAGGAACCTCAATTCATTCACAAGCCTTACCAGAAAA
5154 CaTSNP8144 ATTCCTGCACCAGAATTATCTATGTTGCAGACTGATGAGCCAGATCCTGATGACCAAGAA [C/T] TTCAGAGGATAAATGGTCCATGACTGCTATTTGTAACCGATTGCAGAAAGCCTTGGAGA
5155 CaTSNP8145 TTGAACTCCCTTTCTACCGTGCAAAATGTGCATGAAGAGAGCCATAGTTGCAAACTCATA [C/T] GCAAGTACACGAAGATTTCTTCAACACAGTATCCATGCAGCTCAACAAAATTTTCGTT
5156 CaTSNP8146 TTAATAATGAAAGACCTGCTGAGAGGAATTCACCTTACAAGGAAAGATTTAGTAGCTTGC [T/A] GAATTTGGTACTTATCATGTTTGGCAAGACACGGTTTTAATACCGAAAGAAACATCCTG

5157 CaTSNP8147 AGGAAATCAGGATAAACACAGCATGCTTATCTTCTTACAGCACATATATCAACCTTTTGA [A/G] TGACAACCTCATCTTGAGAGAGGCTTTTGGAGCAATGCAGTCAAGTAAAGTTCCTCCATTC
5158 CaTSNP8148 GTTGGTCCACCACCTTCCTTGTGTCTACATAAAGCTTGTTCCTTGGGAAGAAGGAGGGTAT [C/T] TGTCGTGACAGCAAAACCAATGCCACGAGGAGAGATTGTAGTTGGCGGATTACAGTGTGACTG
5159 CaTSNP8149 TGGAGATAATCTTCCATCTTTGCCCTGAGGGGAAAGTGCCGTCTCTCTTGTATGCCTCCTTC [G/A] CCCGTGATGTGTGGAAGTGATTGGCCCTTCTCAGGGTTACGCGAGGCATGTTTGTATGGT
5160 CaTSNP8150 TCTATTTCAATATCTTGAACCTTTAGGCTTCTTTGCGTTTTGCATTACCGACGACCTTTACT [G/A] TTGCTGTATATCCACAGTGGTTAACGACAACAACGGTCAAGGAAGAAGTGTCAATTAACGG
5161 CaTSNP8151 GTTGGCATCTTAACCTTCTCGTTACCGGATCCATTCTCCTCCTCTTACCGGTTAACC [G/C] TATCTGCCACCGTTATCTCTATCATCTTCTTCTCGCCGTTGATCATCGTTTCCAGCCCAA
5162 CaTSNP8152 AGTAGAACTGACAGTGCCAATGCTGAGAATGTGATGATGGGTGTTTCTGATGAGGAGTT [A/G] TACAACCTTACCAACGGCAGATTACATTAATAGCGGGCAGGATTCTTGAACAGGCCATTT
5163 CaTSNP8153 CTCCTTAACCTTTTGTGTTAGCATCGTTGAATTCCTCAAGGAAGGTTGGGGTGTGTC [T/G] GGAGAGTCAAGGTGATAGTTGAGAGCGGTTGAGAAAGCCCTCGATGGCTGACGGAAAATC
5164 CaTSNP8154 CAACAGATACTGTGAGGAAGAGTTGCCATAGATTTTGGTATTTTTATAATCAAACCTCAGA [C/G] AGACTATGATTACAAGAAATGATTGAACTGCATATATCTTTTGGCCCTGTGTATAAA
5165 CaTSNP8155 GAGTCTAGAGACGGCGATCGCGACATTAGCGGGAGCGCCCGGGAGCTTTGAGGAAGCC [A/G] GGAGCTTCGCGGAGGGAGACGCCGGATACGGTGGGGACGAAGTCGATTAGCATCTCGCCG
5166 CaTSNP8156 TGCTTGTGGCTGGACGCCGCTCCACATTGCAGCTAAAGAAAGGAGGAGGGATGCCGTGAA [A/G] TTCTTGGTAGAGAATGGAGCATTCTTGCCACCTGATATCAATGATAGCAGATTTAATCCT
5167 CaTSNP8157 TGAATTTACTTTTCGATCAAAGGCTTGAAGAATCGCGAGATATTGTTGCCAAATACCCCGA [C/T] CGAATCCCGTGATTGTGGAAGGTAATTCGAAATGCGATCTACCTGATTTGGAGAAGAAA
5168 CaTSNP8158 CATGGAATCTTCTGACACTCTGCCTTTCCATTCTTATCATATGCTTACGCTTCTCAGG [G/A] TCGCTTAAGACCTGGTAGGCTCGCCAAGCATCTGAAAATTTTGTGCAGCCTTAGGATCC
5169 CaTSNP8159 ACTGGTATCTGAATTTTTATTGCATTGATGCTTTTCTTGTATCGTCATTATTGCACACTGA [T/C] GTCGAAGGCATGTTCTCTGGAGGATCAGAAAATGGAAGGGGTGAATCAATAGGACTGGTA
5170 CaTSNP8160 ATTGGTTAATAAGAAGAGAAAGAAAGGTTAAAGGGAAGAAAGGAGGGGATTCTAGTGA [A/G] TTGGGAAGTGTGAAATCATGAAAGGATTCTGCTAAGCGGAAGAAGAAATATCAGTTGAG
5171 CaTSNP8161 ATAACCAGCAGCAATACCAAGTATCAAGTAGAAAAACAGCATACCTGTGATGAGTGTTC [G/A] CGAGAGGCCGGTGACATGAATCCGAGTGCAGCAAAACAATATTGTTACAACAGCCATTCCT
5172 CaTSNP8162 ACGCCTGCGTAGGCAGCTGAACACAGTAGCATGGATGGCTGCTACACTCTTGTCCACATT [A/T] GTATTGTTTTATTTTTGGAACATAATGTTTGTGTCAGCCCGCTTACAGAGGTAATCCTGGATT
5173 CaTSNP8163 GTCTTCTTTCAGTGAATCTTCATTAGTCAAATCCTTTGATTGGATAGGCAATTGAATAGG [C/T] TCTTGATCATACCCAAAATTCGTGAGTGAATTTTCTCGCCTCGAAATCAAGGTCTGGC
5174 CaTSNP8165 TCATCCCTCCGACGTTAAATCAATCCTCCTCGACAAAAACGGCGTCGTTTCATCTCTAAA [C/T] CCTAACACCGTAACCGTCGATACAACGAGTTTACATCCAGATCTCGCTAAAGAAATCGCC
5175 CaTSNP8166 TACTGAGGGTTGGCACTACTAAAGGTGATTTTTGACACCCTCTTTAAAATCGCATCCT [G/C] ATTGAACAAATTAGGCCTCTCTGCAGCTGGTGCAGCTAAACAATCTGATTACCAGGGAT
5176 CaTSNP8167 AGAGGTTATTGGATTCTACAAGAAAATACTAGCATAATAGTGGAGACATTTGATTCTCT [T/C] GGGTTTTAAAGTCTACGGAGGAAATGCGCGCCGTACGTCTGGTCCACTTCCCTGGCCAA
5177 CaTSNP8168 AACTGAGCCCAATCGTTGTGAGCGTGCATTGTTGGCAACACAATGGTCAAGCAAATGG [T/C] GTGTATGACAAACCAATTAGATCTCCGAAATGTGACTTCTCAAATGATAAATCCAACCTG
5178 CaTSNP8169 CCTACACTCAAAGAATTCTTCTTACAGATTGCAATAGCTATCAACCCACAGTGTTCGCA [T/C] ACATGGACCTTATATGCATCACTTTGATCAACAATCTTTCTTTAGGAAATGAGCAGCT
5179 CaTSNP8171 CGATGCAGAAACAGAGTTGAAGAAGAACATGAAGAGCAAAAATGGGTTAGCGTTGAAAGT [A/G] AAGTTGGATACGAAAGTGAAGGCTAAAATGGGAAAATGAAGACACCAATGTTGGAATC
5180 CaTSNP8172 GCAAATGCTATGAGGCGTCTCAAGATTGGTCCATAAAATATTGTAATAATTAACACCCGG [A/C] GGAAGTTTGGCAGAAGAAAGAAATCTCCCATGTTTTGTTGGCCATTTCAAATTTCTGAG
5181 CaTSNP8173 ATGTAGCATTAGCAGTGCATTCTTTGTTTCTGAGGACTTCACTTTAAGAACAATCTTC [C/T] AAGTTTCTCAACAGAAATGCCTTGAAGGAGCAGCAAGAGAGGGAATTTTACCACAAGTTGA
5182 CaTSNP8174 AAGGACTATTATATTGTTGCATCAACAAGATTTTCAAAGGGTCTCACAACAACCTGCA [C/T] TGTTACACTATTCAAATTTCACTCCCTGCTTCTGGTCTTTGCTTAATCTCTCTCTT
5183 CaTSNP8175 ACCAATCTTGAATCATCTACGAAGGGAGTGATTAGGTACGATGTTGTCGAAGTTAGTTG [G/T] TAATAATAACTCTGTTTTTGTGACGGGACAGTGTGTTACCTGATTTCATTTTTTC
5184 CaTSNP8176 GACTTTCGAAACTCGGTGGCTGAGTCACCGAGTTTGTATCAACGATTTATAACTCGTGAC [A/G] TTTGAATTTTGAAGAATGTCGGTGAATCGAGAAATACGGCGGGGAGATTGAGGTGTTG
5185 CaTSNP8177 GCTTGATTGGGGTGAAGAAGGCCAAAGGACAGAAGCTGAGGTTTCTTCACTGAGGGCAGC [C/G] TTCATACAGGAAGTGTCTGTTTGGCATAAACTTGATCATCCCAATGTCACTAAGTTTATA
5186 CaTSNP8178 ATGAACAACCAAGTTTCCATCGTTAACTGAGATTTTAGGTGTACCGTCATCTTTCACCA [C/G] TTGTTGATCAGTATAAGGAGTGAATTAATTAATTAAGAACAAAGAGGAGAAGTGCATTCC

5187 CaTSNP8179 AAACGTTGACGCCGTTTATGTTCCGCTTCCAAC TAGCTTGACAGTGC GGTTGGCGGTTAT [G/A] GCTGCTCGGAAAGGTA AACACGCTGCTGTTGGAGAAGCCTGTTGCTCTTAATGCTGTTGAG
5188 CaTSNP8180 ACTCGTGACATCAAGAGCAGAAAATACCTGAACTACTTAAGCTGGACGATGTAATTGATCT [A/G] GTGATTCCAAGAGGCAGCAACAACTTGTCTCATATCAAGAGTTCGACGAAAAATCCCT
5189 CaTSNP8181 GAAGACATGCTACGTGCAATTTCTCAGAGATTTGATGGCATTGATTTGCACGATCGATA [C/T] GCCAATCGCAATATTGTTTTCTTCGATATCAATATGAAAGGTCACGATGGTATTCAGGGC
5190 CaTSNP8182 ACAATTAATTAGAAAATCTTATGAGGACATTTATCATGAGGATCTTGTCAAACGCTTGA [G/A] TCTGAGATCAAAGGAGATTTTGAGAAAGCTGTGTACCCTGGATATTGGAGCCTGCTGAT
5191 CaTSNP8183 GCTGGTTTCTGGTGGTAGTGATAATCACCTGGTCTTGTGTGATCTGAGGCCATCTGGTAT [C/T] GATGGTCTCGGGTGGAGAAAATCTTGACATGGCTTTTATAACCCTCAACAAAAATTC
5192 CaTSNP8184 TCGGAGGACATCTGCACACGACGGTCCAGAAAACAGCCCGCTCACCGCAAACCGTGTGG [A/G] CCGTCGCTCTGTAACACCCTAACACACTAGGGCCACCAACAGGTTGTGGAACCCACCA
5193 CaTSNP8185 TTAATTGAAGGCAGGCAGCATGAGATCATCCAGTTGTTGCCTCGGTATTAACCGTACAAC [C/T] ACAAACCTTCTCTCGTCCCGACAAAGCCACCTCAAGTATCCTTGGTGGAGAAAAACAA
5194 CaTSNP8186 AGAGAAAAATTTAGTTCCATTTGGTCCCTCGGGTAGCTCAGCAGATTTAACATCAAGTGG [G/A] ACATAAGTCTTCTTCTTCCCTCCAGTAGTTGCGGCAGCTTTGACTACTGCTAGATGT
5195 CaTSNP8187 TTCTTTGCTCTTCTCTGAGCGAAAATGTAAAAC TCAATTTTTGTTGGAAAATTGAGAA [C/G] AAGTCTTCAAGTTAGGGGTGAAAGTGCCTTGAATGGAAGAAGAGAAGAGGTTGAGGAGA
5196 CaTSNP8188 GGATGAGGTTGGTGAAGCGACGAGGAACGGGACAAGATGCTTCTTCAGTTAGAGCAGGA [A/G] TGCTTGGATGTGTACAAGAGAAAGGTTGAGCAGGCTGCAAAGTCGAGGGCACAACACTCTT
5197 CaTSNP8189 AAAACATCCATCATGATATATGAAGTTAAAGGGCAAACCAAGTTTGTACTTCTTTTT [C/G] GGAACCTCAAGCCTAAGACGGAAATCCTCTTCCATAAGAGGAAGACCGTCCCGCAACTTG
5198 CaTSNP8190 CCACAACAAAACCACAATACACCAAAGGGAATTCTCACATCATGCCCTGAAATCAGCTGC [G/A] TCAAACCTCCAGTCAATCGAGACCCGGTAAAACACCCTTAAGTACATCATCAGCAAGGT
5199 CaTSNP8191 CTTTTCGATTTCTTGGTACTGGTTTGCCAAAAGGCTTGGAGCTGTTGCTGAAGCTGCTG [C/T] TGTTGTTGCTGATGAATGTGCTGATAAGCAAGTTGATGCTGTCCAGCTGAGCTCCAGCA
5200 CaTSNP8192 TATAGATATCAATGTTCAACCTATTGAGGATGATGCTTTTCATCAACCCCAAATCATAA [C/T] GCTCCCCCTAAACCTGTGAATCAAATGGTTGATAAGGCACCATGGCAGGAACTGGGAAAC
5201 CaTSNP8193 AATCAAAAATGGAAGAAGATTGCAGCTTTTGTTCAAAATGATGGTTGCTTGAAC TACAT [C/T] GAAGAAAATGATGAAGTGCCTTATTGCTGGTTTTGGCCGAAAAGGGCATGCCGTCGGAGAT
5202 CaTSNP8194 TTTCTGTCC TGGCTTTTAATTTATGTAATTTCCAGATTTGAAAAATCAAATCTTCTATAT [A/G] ATTTATTTGTCAAATGTTTCAGCAGTTTCTTTATAATTTACCTTATACTTTAGGCTTTT
5203 CaTSNP8196 AAAAGCTCGCGCACTTTTATCATCTCTCCCTAAGTTTTTCCAATTTGT CAGCAGCATCT [G/T] GACGATTTTGTCTTTCGCCAAAACACGGATTTAATTGCAGAGGTAGCAGAAGCTATCTTTT
5204 CaTSNP8197 TGGTTTTGTCAAAGGTTATGCGCTCATTGAATATGAGCGTCTGAGGAAGCTCGGAATGC [A/T] ATAGAGAATTTGAATGGATCTGAGCTTCTTACACAAACTATTTATGTTGATTGGGCTTTC
5205 CaTSNP8198 CATCCTTGTTTCTCTTCTTGACAGATTTCTTTGCAAGTTTTATTGCCTTGATCTTCTGAG [C/T] AGAATCCCTGAGACCTTCTCCTGGCACAACCTCATGTGGTGGGCGGGAGACAGACCTAGA
5206 CaTSNP8199 TAATATAATTTTCATCTTCGACTTTCTGAAGCACTTGAAC TGAAGTACTGATGCTCTCCAC [C/T] TCCTCTGCCTCCTCCTGAGTAAGCAATGGAACCTGTTTCAGGTACAACATCACTCTTTGTA
5207 CaTSNP8200 ATGTTTCAGATTCTTCTGGTTGCAAATCTGCTTCTGAGACTAATGCTCAGTATTACCAGCA [G/A] GAAGTGCCAAACCTGCGGGTGCAAATCAGTAATTTGCAGAATCACAACAGGCAAATGATG
5208 CaTSNP8201 CATGGCTTTCTTTACTTGAGCGGCAGCATATGCATACACCTCTAGCTCAGAGCTAGTAGC [G/A] GCACCATGCATATAACGAGGATGCATGAACAAC TGAAGTCTGTTCCCCACAAAACGCTCTTC
5209 CaTSNP8202 TCGGGAACCCCGAGGAACCCCTTTAGCAAATTCACGATAAGACGACTTCCATCGACGTC [G/A] CGACCATCCAAATTTGATATCTGCATCATCAGCATCACGGGATCGCTAAATTCACAAAAG
5210 CaTSNP8203 TTGCTCAAACCATGAAAGCTTTAGAAAATCATGGTGTGAAGGTTTCAGGTCAAAAC TCAAT [C/T] GGAGTTCGGTCTCCGGGAGGTTTTGAACAAATCAAGAAGAATATATCAGGTGACAATGT
5211 CaTSNP8204 CTCTCACGTGCAACGGCTTCATGTAGCAATGGATTAAGGCTTGCCTACTGTTGCTAC [A/C] ACAGAAACATGATGGCTCCTCAAAGTCTCTACAAATGCTTGTAAATACTTTGATAGCTC
5212 CaTSNP8205 TCGTTATGGGTCTTCTGCATACACATCTAGAACAGGCTCTGTTGATAACAAGTTTAGAGC [T/C] GCAGGTAATGGTTATGTTAACGATTCAGGAAAAATGTCGATGGTTTTCAGTGAGCTAAAT
5213 CaTSNP8206 ACTTCTTCAGATGTTGATTTTGTCTGAATTTCCATT CACAGCCTTCTTTTCCACCTCAACC [C/T] TACCAGACCTCCACCAGCAGGTGCAAGTTTTCTTTACTTACTCTTGATGTGCTGAGTGGCT
5214 CaTSNP8207 CGCTCTCATCTCCAACCTCTTCCAAAAGCCAGCCTATGGATATGTGGGTTTATCTTTC [T/C] GAAAAAGAGAAATTCACGACTTTGGTAGTAAAAATCTCTTGTATGGCACGAAACCAAT
5215 CaTSNP8208 ATCTTCTGGTCTCGCAATAGCACAGGAACAGCTAATACAGCGGGCCATCACCGAGTTC [G/A] GCACCTCAACTCCCTCAACTCATACGCTGGTGTGATATCAATGCCTTCTATACCT
5216 CaTSNP8209 AACACATCTTGGTATAGTTATGGAGTATGCTGCTGGTGGAGATTTATTCGACCGAATTTG [T/C] TCTGCTGGAAGATTCAGTGAAGATGAGGCTCGGTATTTCTTCCAGCAGCTCATCTCAGGA

5217 CaTSNP8210 GCGGATGACACCGCCGGCAGGAGAATTCGGTTTTCGCTTCTGGAGGAAATCCATCAGAG [G/A] TTTGTTAGGACTTATGGACGCGCTGTTCTTTCTGCTCAGGCTTATGGAATGAACGACGAG
5218 CaTSNP8211 TAATGTTAGAAGCATATGCCTCTTCTGTAACCTTCTTGTTCCTTGTGCGTTTTCTACATCTG [G/A] GCCATCATCAGAAACAGAAGCCAGAGGCTGAACCTCCTCCACTGGCAGTGCCTTGCTTAA
5219 CaTSNP8212 ATCTTTCTGTTTAATGTGTTATCTGGACTAAATAAATAAGAAATCAAACATCATCTGGA [C/G] TAAAACCTTATGAAGTTGGTGATACATATCCAGGCAACGGGTATTGCGCAATCTCTTCAA
5220 CaTSNP8213 AATATCCAAAATCCTGCCATATTGAGAGAATAAGCAGTACAGAGATCTCTTCAACTCTTC [T/C] TTCTTAACCTTCTCATTGAGATTCTTAACGTAAATGGTTTGATTGGAGGTATGTCCCTT
5221 CaTSNP8214 TTGCTATTGATCCCAGCGTTCAAAACGAGAATGAACTTGAAGGAAGAGAAACACAGATTC [A/G] CAAATCTTTTGTATGCACAAGATCAAAGTGGAGGTGGCGGCTTCATTAGTGTGGAGGGGTT
5222 CaTSNP8215 CAGCATGCCATTGCAAATTATCCCTGCTAAACAACATGAACCAGAAGATGCTATCTGTGG [T/C] TTGTTACGCCACTGCTTCTTTACCACAGACAGAAAATCATCTTCTGTTGAGAAAAGCC
5223 CaTSNP8216 TGGTTCAGAGTACTCAAAAATTGTGTTAACATCTTGAATTTTCTTTCATGTTGGTGCCACT [G/A] GCTGCAAGATCAAGTACTGTGACAAGGTGACCAATTGATTCTAGGAGTGGCTTACCTTG
5224 CaTSNP8217 GCTCGGCCGTGGTGGATTTGGGGTTGTTTATAAGGAGAGTTGGATGACGGGACTAAGAT [T/C] GCTGTAAAAAGAATGGAAGCAGGTGTGATTAGCACTAAAGCCTTAGACGAATTCAGGCC
5225 CaTSNP8218 GGAAGGATTTCTGTGCAAGGGATTGATGGGGTTTTGTTTCCACATCAAGAAGGTGAGGTT [C/G] TTCCTGATAACACTTTGACCCGTACCCGGATGGTCAACCCGCTAAGGTTCTTGCTAAGC
5226 CaTSNP8219 AATTGTTGTTGGAGTGGGAATGATGATCAATGCCACGATGCTAGATGGGGTTATGGGGC [A/T] ACTGGAGTGATATCTGTTGCAAGCAACCTGATTCTCGTAAATGCGAGATCTCATGTT
5227 CaTSNP8220 CAGGACCTCACACGGTCTTATAAATGTAGTCCAATCCTTTGTAATAGGGTGGGTGCC [A/G] ACAGAAAGATAAATTGATGCTATTTGAGATATTTCTCTTGTCAACCCCTACAATCTGACC
5228 CaTSNP8221 AAAAGGAACAGTCCGTCGAAGTACTGATGGCCATATTATTCATGCCAACATTGACACGGA [C/T] GTAATTATTGCTGAAGAACCTCCTTATGGTTCAACACAAAAGCCTGAAGACATGTATAGG
5229 CaTSNP8222 AGGAATGTTGATGTTGGCATCAAGGAACCTCTCAGACAAAAGACCCCATCACTGTCCC [A/G] TACGTTATAAGTTTGACTCCTGTAAGCTGACAAAGCTCTGCCATTCTCTGTTGTGGACGC
5230 CaTSNP8223 TCGTGTGGTCATAGTGGAGGAGTGCATGCGAACAGGTGGAATTGGTGCTAGTCTGACAGC [C/T] GCCATTACTGAGAATTTCCACGACTATTTGGATGCTCCTGTGCTATGTTTATCCTCTCAG
5231 CaTSNP8224 CACATCTGTGCGACGAATTGGGTTGAAATCAATCAGTTCTGCGAACCCAGTCTTAGCCAT [T/G] ACAGAGATTGCTGATCCATCCCACCAGATTGCGTCCCAATATGTCGTTCAACATCACAT
5232 CaTSNP8226 TTTCCCTCGTCTTAAAATCAATCACACTTCCCGGAAATTTATGGGCCAAATCTATATCCC [C/T] GTCCTTAACCTGGTTTCTGCTTGCTGTTTCTCTGGTGTCTGTCTGCTCAATATCCAGCAT
5233 CaTSNP8227 TCAGAGTATCCAAATCTTCCAGTATGTTGCTCTGTTTGTGTTTACAAGAAGCAGATACA [A/G] AGCTTCTATTGGCTGGTAAACATAGCGCACGTTCTCAGTCTCAACATATGTGTGTTGTTT
5234 CaTSNP8228 ATGATCTTTGCAATTACATCCGCGCATTATTTATCAGCATGTTTATAGACATCATCAGCA [C/T] CAATCATTATCATGCTGACCTGCTTCTAAACACCTCTCCGCTCTTCTAATCAAGAGAT
5235 CaTSNP8229 GAACTGGCAGAGCAACAACATCTCAATGGTCAAAGCTTGTCTTTCAAGGTTACAACCAG [C/T] GATGGCCGTACTATTGTTGCCAACAAATGTTGCTCCAGCTGGATGGTCTTTTGGTCAAAC
5236 CaTSNP8230 CTTTCCTTACCTAAACGGATGTGGATCGGAGCTAGGTTAATCTCTGGTGCATCTGGAAT [T/C] ATCTTACCATAAATTAAGGCTGAAGGAATTCGCCAAATGTTTTCCCTGCCACTGTTCCA
5237 CaTSNP8231 TGGTATGTGGACACGCTGAGCTCCTGATATAATCTCCTCACCCGGAATAAATACATCAA [G/C] GAGTTACTGTATTCTGGATTGTCTAGCAAGGCATGTGATAAAATGGTCTTATAGCCAAA
5238 CaTSNP8232 AATCAAGACTGTTGATGCTATGCGTGTCTTATGGAGATGATTACTATATTTGCAGATT [C/T] CAGGAACCTGGCAAGATGGAAGCTCAAATGGCTGAGGTTGGCACTGCATATGTGTTGAAA
5239 CaTSNP8233 AATAATGGTGTGAGGCGATGAGCAATAATGAGCATTGTACAGGATTTAAATTCCTCTCT [G/T] ATTTGTTTTCTGTATGAGTGCATCTGTTCTGACATCAACAGCTGCAGTTGCCCTCGTCAAGT
5240 CaTSNP8234 GGACGAGAAGACTGACGTATTCGCGTTCGGGGTTTTGCTATTGGAGCTCATAACCAGTCG [C/T] CGTGCGGTTGATTCGGATAGTAGGCAAAGTCTTGTGATCTGGCCAAGCCACTGCTTGAC
5241 CaTSNP8235 AACAAACCATGGCTCTCGGTAATTCGTCGATTTCGTTACATGCTTCTTGAACAGCGAATC [G/A] TTTTCGTATTAATCGGAATCGTCAATAGCAACGCTATTCTTCACTCTGTAACCAATTCAT
5242 CaTSNP8236 AGTTTTTTTATCAAGCACCCTGTCTTGGAAATACCATAACAGATGCCAACCTTTAGT [G/T] ACATCAGCATATTCATATCAGACTCTCCAATCCAACCTCCACAACACTCTTCTCTTTA
5243 CaTSNP8237 AGAAGAACGAAAGTCATGGCGAAAGAATCATCCTCATGGTTTCGTTGCCAAGCCTGAGAC [T/A] CTTCTGATGGCACTGTTAATTTGATGGTTTGGCATTGCACTATTCTGGCAAGGCTGGG
5244 CaTSNP8238 TCTTATAAGCTCCTTTTCTCTTTATCTTCTTCTTCCGTTGTTCCACATGCCACGCTTC [G/C] TCGTCTTCTTCTGCTGACGTGGAACCCGTTACATAACCGAAAACCTGCGTTGGAAGAATG
5245 CaTSNP8239 GTATTCCAGAATATATTCTTGGAAAATTACTTTGCCAGGCAATTTCTTGGGTTTCTCAA [G/C] GGTACAAACTTAGACCTATTGCCAAGGCAATGGGAGGACCAAAAATGAAACCTCGAGCT
5246 CaTSNP8241 CAAAGAGGATTACGAGGATGTTTGGAGAGAGATTCAGATAATGCATCATTTATCTGAACA [C/T] CCACACGTTGTTAGAATCGAAGGAACCTTATGAGGATTCAACTGCTGTTTCTTCTGTTATG

5247 CaTSNP8242 TCACGACAGTCTTGTCAATTCGCAACTTCAAATGTTAAGGCACTGAATCAAGCAAGATT [G/A] GAGGCGAATATTAGAGTGTATGGTGACGAAAAGCAGAAAAAGATGGCCAAGTCTTAC
5248 CaTSNP8243 AGCTTCGTGTGCTGAAAATGGCCATATATCTCATGTTGGGTCTTCTTCGAAAGCAAAATGA [G/A] TTGCAGATTTCCATACAACAAGGAAGCTTGGAGATCCTATTACTGATACTTTATTTGGG
5249 CaTSNP8244 AAAGTTACACCGTGCCATGAACAGTTCTCCGAGAACTCTAAGAAGTCTCCAAAATCAGA [T/C] TCAAAAGGTAGTAGACCGAAGAGGCTTAGAAGCTCTTCGAGTTTTGAAATAACCGAGGGC
5250 CaTSNP8245 TGATTCATCTAATCCAGCTACCAGAAGACCAACCCATAAGGACGCTTCCATGATCGCTG [G/A] GTGCAAACTGAGCCTTATCGGCGAGCTGAACAACGAGACGACCAACAGGAAGCGGCAT
5251 CaTSNP8246 GGATGAGTTTGTGGGGAGGCGCATGGATGTACTTTGCAACTGGAAATAACTCGTACCT [T/A] AAGCTTGCTACTACTCCCGCCTTGCTAAGCATGCTGGTGCTTTCTGGGGTGGCCCTGAT
5252 CaTSNP8247 GGAACCTCCCTTCTTGCTCTTTTTTCCAAACCTAGAAAACCTAAGTAACTAGAAAACCCAGCC [G/A] CCACCACCTTTTTGGCTTTACCATTCTTTTTCTTATTATCACCCCCAAATCATACCA
5253 CaTSNP8248 CGTGTGAGTACCTTTTCAATGGATCCGGTCCGGGCAACATAGAATGAAGTTCGAAAAC [A/G] GAGTTAACAGCAACGGCTTACCAGGTCGGATCTCAAGCATATTCGGGTCAAGATCCGCT
5254 CaTSNP8249 GCTGCAAGGGAGGACATTTTGATCTGCTGTTCTTCAAATTTGATTACTCTTTATTTTCA [C/A] AGTACGCGTGAATTAGAAGTTGATCGAAGAAGATCGCCCTGATTTGGAAGCTTTATA
5255 CaTSNP8250 TGGCTTCCAAAAGGAAAATAAAAAAAGTGTGCAGCTCTGGTTACAAAAGTCATAGTTGCTT [T/A] GTTGTGTTTCTATGCATGAAATTTGAGTTAAAGATAATCTAGATGGAATCCCTTTGGAA
5256 CaTSNP8251 GGTTCGAAGGAGAAGATCTCAACGAGTTACGGCAAGATCGAACGGTTTTAACTGATCAA [C/G] ATTAAGCTTCTTATGATGATACCAACTTGAAGTAGATATTATAGAAGGAGGCAAATC
5257 CaTSNP8252 TCTTTCCATTATCCACACAACATCACAGATAAACTATTACTAATAGATTCCTCCACA [C/T] CCTCTTTTCTTACAATACAACTACGCATCAATGTCTTAAATCCCAACTTCTCACTTA
5258 CaTSNP8253 ACAAGGGACTTTTGCTTCAAAGTAGGTTGTCTTGATAAAGAGAAAACAGGTGGCAACAGT [G/C] GACAGAGAAGTTGATGATGGTATTGAGACTGTGTGTTTGAAGTTACCAGCAGTAATAAC
5259 CaTSNP8254 CACGCGCAAGCTATTACCCATAGCTCACGAAGTCAACCCCTCTTCTGGCTCACCTTCA [A/C] TCATGACAGAGACGAAGAAGTCAACGTCAGTGTCAACAAATCCATGCTTCAAATGTTCT
5260 CaTSNP8255 GGCTAGAACAATCTCAGCAGCACCTTTCCAATGTATATGAACATCAGAGTCAAGCCGTC [T/A] ATTGCAACTCCGCTCTTTTTTtCTCGGAATTGAATGGAAGACATGAATAATTGATGAT
5261 CaTSNP8256 CTTTATATGAAAAGTCAGAAGATTTGAAGCAAGATGTGAAGTTATTTGCTTGCTCTGTTA [A/G] ACTTGAAGTCAAGCATTTTTCATGGGCTGCTGAAAATTTGAATCAAATGGCATAGGATT
5262 CaTSNP8257 CGGTGCTGAAGTCCGTTGGTGTCTCTGCAACATCTTCTCCACACAGGATCACGCTGCCG [T/C] GCCATTGCACGCGACAGTGTGCTGTATTTCGCTTGGAAAGGAGAGACTCTCCAGGAATAC
5263 CaTSNP8258 TCCAGTGGAGCTTGCTGCTGAGGAGTTTCTATAGCTCTCTTCAATCAAGCATCAAGGAT [C/T] GCAATATTTCCGCTTGTGAGTATCACAACTCTTTTGTGGCCGAGGAAGATACCTCAGC
5264 CaTSNP8259 ACCTGTGTTGCTGGAGGAACAACGACATCAATTGGAGCAACCAACCAACGAGCAGG [A/G] GCGCCACCTTGTACTTAGCAACCTCTTCGCTAAGTCTCCTTCAAGTCACTTTGGTGAAA
5265 CaTSNP8260 TTCTGGAATGTTGTGCAACCAAGGTTTTGGTGACTTTGATAGACTTCAGCATAGAAGTCC [G/T] AGTCCATGGCTTCTTCAAACCTCATGTCAAATGTCTCCGGGACAGGAATGGCCGCATGG
5266 CaTSNP8262 CGACTCCGATTACGAAGAAGAAGAAGATGAACAAGAGCAAGACCAATTTCA [T/C] GACGCTGAACTTCCACCCAATCCCATTCACACACCTCGACGAAGTAGACGCTAGACTC
5267 CaTSNP8263 TATGTGGAATCAACCATACGAAAAACCGATTTGGAGAGCGGGTCAAGGACAAGGCTCT [G/C] TACCCTATGATGCTTGAAGCCCCGAACACGCTGGTCTTATCAGAAAAAGTCTACGTC
5268 CaTSNP8264 CCGTGACAAAAGGCATAAAAGGATGAAGCAATCGCAAGCCATTGTCCAGACAAAACCACA [A/G] AGTATCTTGAGCAAACTGTCTTTCCGGAAGCATACTTGGGATCATTGCCAGCAAAGTACGG
5269 CaTSNP8265 ACGGCCGCTGAAGAAGGCAACAAGAACAAGGTTTTGGAAAGACTTGATTCCGATGCGCA [G/A] AAGTTAAACAACTTCAAATAAACCATAAAGATTTGATGAATAAAGTGGAAACTACAGAG
5270 CaTSNP8266 TGGTCTATTAGGAAAATATCCAGCATAATTGTATTGACCAAAGTTCACTGCTGCATGATG [G/A] CCTGATGTTATCAAACAATTTGTTGTCAAATTTCAATAAGGTCTTCAATTTGTTTTCAA
5271 CaTSNP8267 ATCGTATGTAATGTAAACAATATACTAAACAGAGTAATATATCACCGCACCAAGGAGCA [T/G] AGAAGAACAGAGGACTTAACGGCGTTGACTGAACTGAACAACGTTGATCAATAATCAAAC
5272 CaTSNP8268 AAGGGAGAACCAGGAAATGTGATGGAATTTCCGGTGGTGTGAGGAAATCACCGTCATCGC [C/T] GGTGAGTTGCCGAGAGACTCCGGCGACGGCTTCTTGATACGGAGTGAAGTACCGAG
5273 CaTSNP8269 AGATTCAACAGCCAAGTAAAGTTGAGTTGTTGAGGTTAACAGAAGTTACAATCTGATGATT [C/A] TCGTTCCTTAATTGACCAACCTGAACAGCAAGATCATCCAAGTGTCTGTTTTCTCATT
5274 CaTSNP8270 AAGAGTGGCTTCACAAGACATGAAATTAGGAGATTTGATGATCCCAAGAGGAACATGTCT [C/A] ACAATCCCAGTTATAATGATTCAAAGGAATGAAAAATACTGGGGTGAAGATGCAAATGAG
5275 CaTSNP8271 TCGGCAATCAATTGCTGATGACTATGAATACGTCATGTATGGCAAGCTCTACAGAGTAAC [C/A] GAGGGTCTGGTCTGAAAAAGCGGAGTTATATATATCATTTGGTGGGCTTCTGATGTTG
5276 CaTSNP8272 CAGTGCATTTTGAAGATTATGCTGATTATAGAAGATCGCTTTACGGTCAAATTACTCA [T/C] AAAGCTCTTCTGTTGATGCTGTTGGTACTCTTGTATTCTTCTCAACCATGGCTCAG

5277 CaTSNP8273 ACAATTTCCAACCACCACCGGAGTTTTCTTTATCTTCTTTGAAATATCTAACAAGTCAAC [A/T] ATTACTTGAGGAGATGTCCGCTTGGTACGTACAATTTCCAGAAGTGGCATAACATGTGCA
5278 CaTSNP8274 GAGGTCTTATGACCCTAATCTCATCCAAGACCCCACTATTTACAGGTTGAATGAAGCTGT [T/G] ATGCATTTTGGGGAGAGCATCAAAGATATCATCAATGAAGAGTTTGGCGATGGGATCATG
5279 CaTSNP8275 CTTCCAAAAGTAGTGTGAGATATAGACATTTCTTGCATCTGAGGTCATTCTCCGAAATA [A/G] TTGTTGCCCATTTTATTCTTCTTACCAGAGTCAAGAAAGCAAGTAGGAAGCTAATTTG
5280 CaTSNP8276 TGCAAGCTTTGGGTTTTTCTTTGCAACTTCAACATTTTTTACCACCCAACTTCCTCTCC [T/G] ATGCTATTCTCTCTCCACTTTATGCCTTTGTTTCATCAACTCAATGGTCATCGGCGTA
5281 CaTSNP8277 GTGGTGAACGACGTCGTTTGGGTCGAGTTTAGGATATGGAGCGTAATCAGGGGTGTGAG [T/A] GTGAGAGTGAGAGTCGTGAGAGAGAGACGGAAACAGTTTGTTCATCGGGTTGAACATG
5282 CaTSNP8278 AGCTCAAATGATCCTATGTCAGGTCGTAGTTGTCAGCTGCTATTGGGGCCAAAGTTTGGAGT [T/A] GATGGAAATCCTGGTGATTTACCAAAGTGGTATGCTGTAGTAGTGTGCTCTTCATTTGC
5283 CaTSNP8279 TGATGTCGATAAAAATGCTTTTTATGGACTGGAGAGATTCACACTTGGACAATGACAAGGA [A/G] CTCAAGGAGAGAAACAGTAAAATACCTACTTTTCTGTATGCAATGCCGTTTTTCATCCACC
5284 CaTSNP8280 GGCTGTTCTTGATTGTTTGGGAACCGACATGAATGGGCTAGGTTGGTTGACCGCGGTCC [A/G] AAGACAAATACTAATAGGAAAAGGCGTAAGCTGGATGCTGAAGAATCTGATGATAATGGG
5285 CaTSNP8281 GAAAAGAGCTTTAACTGCATTGATTGACCTTCTTCGCATCAACAGAGGAGGAGATCGGC [A/G] TTCGAGCCAAGACCTAGTCGTCTCTCCGTCATGTCCAAGGCTGAAGATCTTTGAATTTTG
5286 CaTSNP8282 AGAAAAGAAAAACAATGATGAACATGGAAATAAGTATTATTGCTGAGCTTTGAATGGCTG [A/G] TATTTTTTGAGATCATGAGCAAGGCCTTGGATGGAACCAACAGCTGAGATGATAGAAACG
5287 CaTSNP8283 ATTTTTGGGTGGAAGAATCGATTGGGATAAAACAAATTAGTATTAATGTTGTTGTGTCTG [G/T] TGGTGGCAAAGGTGTGAGTGAGGGTAGGTGGCAGAGCATGGCGTCTGTGTATAAGAGAA
5288 CaTSNP8284 GCCTAGGTCCACTGCTCCTCTGCCACCATGTCATGATGGCTACATATTACAGCATCATA [A/T] GCTCCAGCATCTAAGGCAGCCTTTCTAACCGCATTTAGCTCAGCTTCAGTGTGAGTTGAA
5289 CaTSNP8285 TCATCTCTCTTTAGATAATCAGGACAGCAACGAGTGGAGGCATGGCATAATGGAGCTTT [G/T] AGTTGGACTGTGTCATCTTCTCTTTCTTAGCCCTGTAGAAAATATGACTATACTTTTCTA
5290 CaTSNP8286 ATCATCATCATCTTTCGTTATTGCTTCCGTCGGGGATTTTTCTTTTCTTGGGACCATGCTC [A/G] AGCCTATGACTATCCAATCTTTGTCATAGTTTCTTGTAAAATATGGTCATTGTTTACT
5291 CaTSNP8287 ACATTTTCAAATAGGGGTGGTAGATTACCAGTTCCAAGTTGGTTAGCCATGAAAGATGCC [C/A] CAGCTGGATTTCACCATAATCCACTCAGGCCATAGTTATTATACGTTGAGTTGGTACCAT
5292 CaTSNP8288 CGTTAAGCCTCCTGGATCCTGCGACACCTTATTCCTCGGCGGCGCTGGAGTCAGGGGTCT [C/T] CAAATCCATGACAAAATTCGTTAAATTCACCGCTATTGCCATTTATTTGCAAGTATACATCT
5293 CaTSNP8289 TGATATTCTTCACTTCAGAGGAATAAACCTGGAGGAGTGTAGTACCAATACCAGGCC [A/T] CCATGCTTAACTGGCTGTGAGGAGATTGAGAATTCGGCCAGATAGTGTCCAATCATTTCA
5294 CaTSNP8290 TCCTTCATCCACAACATGGTTCACTTATGCTCAACAGGGTCTTGCAGCTTTAGCTATTAC [G/T] TTAGCACTTAACTTTAGCCCAATTCATGATAGTGGCAATGCATTGGCTTCTGAATTTGAT
5295 CaTSNP8291 CCTCACACGAACATCACCACCCCTCCTTCTCCAATATCAGCTTGGAAATGGAATACTCA [T/C] TCGATTCAACTGTATTGGAAAATGCCCTTCAAAGCGGTTAAAGACAGAAATCATATGCAT
5296 CaTSNP8292 AGTTAGGAAGGTGGAGAAGTTTGGAAAAACATCACAAAAAGAGGAAAGTGTGCCAGAAAC [C/A] ACTGTTAAGAAAGGAAAAGACTATCCTGTTGGCCCGTGCTGCTTGGTTTCTTCGCTTTT
5297 CaTSNP8293 CTACTGGGCAGCCTACGGCTCATTGAGTCTGTGAGAAATTCACGGACAAGCTTATTTT [C/T] TGGGTTCCCATGTACTATCACTTGAAGTTTGCATTTCTTGTGGCTTCAACTTCCACCT
5298 CaTSNP8294 ATGCTCAGAAGTCTCAGTGAATTAATGGTCTCTTCAACATTATGATTAGGCTCTTCAAC [G/A] CACTGATTGTGAGAAAGACAGGATATGAAATCAATTAGAGCAACACAAAAAGCTTCTGGT
5299 CaTSNP8295 AGGAGTGCCCAACAGTGTGGACACCCTTGGAGAATACGCTGATCCTCACGAACGCT [G/A] GTTCCACCAACACAGCATGAACCTTAACACCAAGGTAATCACCAGAGCAGCATAACC
5300 CaTSNP8296 GAGAGAGTTGTTGGGGCGTGAATCTAGGACCGGGGACAGCAGTTAGGTCAACGAGTATA [A/C] TGGTGGTGGGAGGCACAGGCACTTTGGGAAGGCAGATAGTGAAGAGGGCACTGGACGAAG
5301 CaTSNP8297 AGCAAAGAAAGTGGATACATTGACCAAAGCTATGGAAAGTTGAGGCAAAGAAAATGAGAAG [A/G] GAAGTAGCTGTATGGAGAAGGAGGTAGCTGCAATGCGTGTGGAAAAAGACCAAGAGACA
5302 CaTSNP8298 TTTGAGATTTCCAGAAGATCCCAGTTAACGCTTGGAGCTAAGGATCTAATCTACAGATT [A/G] CTGTGTGATGTGCATCATAGGTTAGGTACTCGAGGGGCACAAGAAATCAAGGCTCATCCA
5303 CaTSNP8299 CATGGAATTGGGATAGTCTCCATGCAACAAGGTTCCATAATCCAACCCAAATAAAAATC [A/G] CGGATCCGTTGACATGCTGCCTTGTCTTTCTCTGTATTGTTGCTGAGGAACTAACCCAAAT
5304 CaTSNP8300 GAACCTTTCGGTTTCTTCGCCAAGATCTGGTAGATTTTATGATGCTAGATTTGAAGATCA [T/C] CAACCTCATTTTCTTGAAGCTTGTCTTTCTTTGTAAGAAACCTTTGGGAAACAATAGAGAC
5305 CaTSNP8301 ATCAAACCTTTAAAAGGCTATGATTCGTTGGAGAATAAGCATCGTTGGATAGTTGACGTA [A/C] GAGACCTAGTTGATGCAATACTTTTGGCTTATGAGAAGCACGACGACGGGAAGCAAGAT
5306 CaTSNP8302 GGCTTCTCATTAAAGGACAAGAGCTTGCAGAGAGAGAAGGACTTGAAGAACAGTGAAGCT [T/C] CAGGATCCACACTTCGGTCGACGTACCAGTCCATGTGTTTAAAGAGACTCAAACAGACCT

5307 CaTSNP8303 TCTTGTGCATTTGTTTGGGAACCC TAGGTTGAGTTAATTCGTCATGATGTTGTTGAACC [G/T] ATTTTGTGGAGGTGGATCAGATCTATCACCTTGCTTGTCTGCATCACCTGTGCATTAC
5308 CaTSNP8304 AAATTTGGATTTTCATAATGCCGGCAGGACCACCCTTGAAACCATAACAATGTGCTTCCACT [T/A] GCACGCTGTTGCAGGTAATCGAAAAATCCAGAAATGACATTTGTGACCTCCGGGAGCCTGA
5309 CaTSNP8305 GGCTTCATTCATATCATTCTCACTAGACATTGTAACAAAATCCAAAACCACGTGATCGACC [G/A] GTCTCTCTGTCATAGACTACCCGAACACTCTCAACCTTACCATGTTTCGCTGAAAAATTTGT
5310 CaTSNP8306 GGACCAATATCTGTCAAATCAAGGCATACTTTATGCTTTCAATGATCCAAACCATAACAAC [G/A] ATGGAATCCCTCCCTCCTTGATACAAAATACCATCTGATGGAGCTGATGTTTGGGAAATT
5311 CaTSNP8307 AGGTGTTCCCTTTGTGCCACCAATGCCTCTTTATTTTGCAGGGCCAGACCCTCAGTTGCA [T/C] AGTAAGATAGTCATACAGATTGACTACTATTTTAGCAATGAAAATTTAATTAAGATAACA
5312 CaTSNP8308 ATTCAAGACAAAAGCTTTGATAGAGGTTGAGCAACTTCAACATCTGATAAAATTAGTTGTCA [T/G] GTGCTTTGATATGTATGGATCAAGCAATGTTAGTAGGTCATTAGACTTTGTTAATTTCAAT
5313 CaTSNP8309 GTCGAAGTATGCAACAAGGAGTGGTACACATAGGAAACATTGTACTCCACATTAATCTG [C/T] TCATTAATAGCAGCTTCAGATTGATCTTCAAAGTTCTGACGAGCCAAAGAAACATTATGA
5314 CaTSNP8310 GTGGAGTTAGCGTGTGGGAAATGACATATACCGATGGACTCGAAGGCCAAGAAGATGA [G/C] TGGGTTCCGTTCCGGATTGAAGAAGGAAAAGATAAGAGATGGGTTTGAAGAAAGGGTGGT
5315 CaTSNP8311 CTACGCTATTTCTTTTCAACTTTCTCCCTATCATCTCCAACGTTTTCTTTTCATGCTTGA [T/C] AGGACTTCCAGCTAAGACAATAATCCTTTGCTGTTGTTTTTATTTTACGATGCTTAAG
5316 CaTSNP8312 ACCAATTACATTTTCATGATCTAAATGCCTAAGAAGCTTAATCTCACGCAGCGTACGCTT [A/C] GCATCCATGTGATTATCAAAGCATTTCGCTATCTTCTTAAACAGCAACCACTCATTCGTC
5317 CaTSNP8313 TTGAGACTGCGTTTTAGTAGCTTCTGCATGTTGCTGCAATGTCAATGATTGACTGGATGG [C/T] TGCATCATCTGCAATGTGATGTTGAAGCTGGGAGAGCCCTGCTGAGATGAATGAAAGCTT
5318 CaTSNP8314 ACACGGTGCCTCCCAATGTCTGTTTGGTTCTTTTCTACCAATGATTTTACTGTCTCTG [T/C] TGATGGAGGGTTTGTGAAGGCCCCACCTAGAGATGGTGGAGTCACTACTCTCTGTAGG
5319 CaTSNP8315 ATTATGAATTGAAAAGAACTAAAGCCAAAATCAAAGAAGTAAGCGATAACATGTGTTA [A/G] TGAATCTTGAATTTGGAAGCCTAATGATGAGATAACGGGCTTCTGAGTATAAAGTAAGTG
5320 CaTSNP8316 TGCACAGCAAATATAGGATGGAAAACCTTCTTCACATTCGACGGCAACCCAGAACCAAC [T/C] ATGTAGCCTAACACAGTGGCCGCAAGCAAAAATGGAAGGCATGTTCTGGCACTTGTTC
5321 CaTSNP8317 AAGTTGTAATTCAGATCATCCACTTCACAATTGGACAACAGGAGCTGGAAGAGATGTTGT [C/T] CCATTGAATGTCACCTCGCCATTATTTATTTTATAAGTGGCAAAGGTTTTTGTATGGTGGT
5322 CaTSNP8318 TTTAAGTTGAAAAACATAAGATTTTGTAGCTGTTTCATGTTTGGGTTTCGAGGGATCGAG [G/A] TAGGAGAGGACTCTGTAACCCCGGTGAGTTCTGTTGACGGAGTGAAGTTCCGGTGAAG
5323 CaTSNP8319 CGTCTTTGGCCTCTGTCACCTGTCCCGTCCATCATGTTTCCAACCTACCCTAGCTCCAC [T/C] ACTTGCTGAACCCAGCTCTGCCATTGCTTATTACTTCCACCTCCAGGATTACTTGAGCG
5324 CaTSNP8320 TCTCACAACTTTGAAATCACACCAACCCACCACTTCGTAATAATGATTGAGAAATGGTG [T/C] GTTGAACAGTCTTACCGGATTGAAAGAATCCCAACTCCTCGTATACCAATTTTCGAGC
5325 CaTSNP8321 GGGTTGGGTGGCTGGTCTGCTGTTCTCTTTGCATTTTCTTTCACTACTTATTTCACTTC [C/A] ACTCTTCTGCTGATTGTTACCCTTCACTGATCTGTTTCATGGCAAACGAACTATACT
5326 CaTSNP8322 AGGCCTCCTGAAAAGCATGATGTGTGGCTCGGGACGATGAATTGCATAGTGAACCAACC [T/A] CGGCTTTGCTGAACCTCTATTGCACGCCACTCATTTTCAGAGAGGAGCCGATTCTTGGGA
5327 CaTSNP8323 GACCTTTATGGAGAATCCTTATCTGTCAAAGTTGGATCAGCCTGGGCATACTCACCTGTA [A/G] GTAGTAGTGAACGACCTCCAGCTGCTAAGGAAAATGGAAGAGAGAATACACTAAGCGGAA
5328 CaTSNP8324 TTACAGCTTTTAGAACTCATGATTTTGTAAATGCTTCTCTCATCTTCTTATTTCTTCT [C/T] GCCGTCCCCGAACCGCCAGCTAAACTCTCTACTAGTCCCTACCGAACCGCCAGCTAAAC
5329 CaTSNP8325 GCAGGATCTTCTCAACACCAGGATTATGAATAACCATTTCAACGACATCATATTGAGCT [T/C] TAAAACCATAACCAATTGGATCCCAACCACTACTTGTATACAATGTTTGTATAGGAATAA
5330 CaTSNP8326 AGTTTCTGGCGTGTGTTTCATACCGTTGGAAAAGAGTACGGACAGAGGACTGCGGAGGC [A/G] GCTGCGGAGAGGATGAGAGCGGTAGCGGAGATGGTTAGAGTGATGAAACCTGGTGGCGTA
5331 CaTSNP8327 CAAGCCAATTATCTTCACCATGGCAAGGTTGGACCGAGTGAAGAACATTACAGGACTTGT [A/T] GAATGGTACGGTAAGAACGCTCGCCTAAGGGAGTTAGTAAACCTGTTGTTGTTGCCGGA
5332 CaTSNP8328 CCTGTGTCTGTACTGCAATGATCGGTGTCATCTTTTCAAGCAGCTTGAAGCAGTCAAGAA [G/A] CATATGGCAGCTAAAATCACTGTAAAGTGCATTTATGGTGTGATGACGATGATGAGGAGGAA
5333 CaTSNP8329 CAAGTTTGGAGCTATCCATTAGCTTTCTCGGAGTTCCGTCAGGCTTAGTACTATCCAAA [C/T] GAGATCGCCTTCAATCCAACTACTTCTTTCATCGACTCGGCCAATTCCTTAATAGTAAC
5334 CaTSNP8330 CGTACCTGAACTCGTTGTTATTGCCGGAGTTGCTGCCATCGTTTTTCGGACCAAGAAGTT [G/A] CCAGAAGTCGGTCGACGATCGGTAAAACCGTCAAAGCTTCCAACAGGCAGCAAAGGAG
5335 CaTSNP8331 AATGGCTTCTTCTATGGCTGCTATAGGTGTTGTCAAAGTCCACATTTCTTCTTCTTCT [T/A] TCAAATGTAGCAAACAAAGCCATTCAACAAAGCAACCTCTCATTTCTATCATCACCTC
5336 CaTSNP8332 TCTAGAAAGAACTGCACTATCAATCGGTTTATCAGAGGCTCTCCACCTTCTCTCATCCA [C/T] GGGTGTCAAGGACTTGTGCAGAAGTAATCCTCTTCTTTGGATCTGATTAAGCATCTTC

5337 CaTSNP8333 GTCTAGTCGTGAGGTAGGACCTGACAATGTTTACAATACTGCACGGTTGATTCGAAGTAA [G/C] AATGATTCTGTGCCTAATGTTAATATGACATGGGTGTTCCGATTGCGGGTGGATATAAG
5338 CaTSNP8334 GCTTCTTAAAGACTTGCGTCTACCAGCCTGAAGTCCTTGCCATCACCGACACACCTGC [G/A] TCTACCACATCAACTGCTGCTGGGTCAGGACAAGGATTGCAGAGTTCTTCATCAGCGATG
5339 CaTSNP8335 ATAACATGTTGCATTGTGAGAGAGAATAATTTATGCATGGCAGCCGGTTAGCACACATCC [A/G] TATTTGTTGAGCTGTAATCTAAGGTTGTGTGTAGTTTAAAGTGCATGTTTGGATTTCAG
5340 CaTSNP8336 TAACATACTAGTTGATCCTAATGGTGAAATCAAAC TAGCAGACTTTGGAATGGCTAAACA [T/C] ATAAC TCTGCTGCTTCAATGCTTTTCATTCAAAGGAAGTCCATACTGGATGGCACCTGAG
5341 CaTSNP8337 GGGGATACTCCCAAGAATTCATAATGAGAACCTTCAAAC TAGTAAATCACCAAAGTCT [T/A] CACCCAACAGCTTATTAGGTTTTTCTCTGAATTGGTTTTGTTTTCTTTTTTACTACTTT
5342 CaTSNP8338 TGACCCTTTTGTGTGTCTTCTTTATATATTTCTCCTTCATTTTCGTAATCTTCTTCGTC [A/G] TCGTCGTGCTCATGCTCATCCACAGGCAAAGGGGCATTGATTTTGGATTGAAACATGAA
5343 CaTSNP8339 CATCCTCATTCCTTCTATCATATCTTTAAATGGCAGGATATCAACAGGAAATTTGGCAAC [C/T] GTATCCGATAAAGCAGCGTCAAGCATATCAAACGGACGCCCTTGGAAAAGTCTTCCAAT
5344 CaTSNP8340 TACATTTTTGCGACGCCCTCGTTATGTCCAGCTAAACGCCCTTCTACAAC TCTTTTTAA [C/T] TCATCAAATCTGTACCTCATGAAACCTGCTACATTGTTGGCAAACCTTTGTTGTAGG
5345 CaTSNP8341 CTCACCACCCTGAGAACCTCCATCTGATGAACCGCCACTAGAACCACCTGACATATGTTG [T/C] CCAATCTGGACACAGCTTTGTTTGCAGCATCAAGCTTTGACTTAATTTTCATCAGTATTG
5346 CaTSNP8342 GTGGACAAGTTTTATATCTCTCGGCAGATATGACATTGAGCTGACTGTTGGTGATGCT [A/G] TCATGGAGA ACTCTTCTTTCGCGCCACTTGGTTTTGTAGAATTAGATCTTCCAGAAGCAC
5347 CaTSNP8343 AAATGAACCACCCCATGAAAACCTTAGACAAATCATTGCTGTCCCAAGTGGTATGAT [A/C] CCTACTGGAGGAAC TGGGCTCGGCCTAGCTTGCTAAGTCTGTGAAGACATCCTAACACC
5348 CaTSNP8344 TCTTCAGGTGCTAGATACTCGTGGACATTTGTTGGTTGCCTTGGGTTACGGGTTATGGCC [G/A] TCAATGGTTCTTATCTCAGAAATGTCCAGACCTTCATCTGGCAGATTTCTGTTACTAT
5349 CaTSNP8345 GAGTCCGACTTGGTGATGGTCTGCTTCAGCCCTGCTAGATCTTGACAAC TCACACTG [C/T] GTCTGATCATGGAACAGCAAACAGTTTAGATGGTAACAATAATGATCTGGAGGAGGGCT
5350 CaTSNP8346 AACAAGGAGCTCAGTGGAAATGATATATTTGGCCACCTCCTGAAATTTGTCGCCCGTTCC [G/A] TAGCAGCTGTACGAACTTTGGAATCAAAGGAAAGTAAAGGACATGGGAGAACCTCTTCCTA
5351 CaTSNP8347 TCTCAGGATGTTGGACTCCATGCTAGGCATATCAGTACTGTGTCCACGGTTGACAGCGAA [T/G] TAAATGATGAATCTGGGAATCCTATATGGAAAAATAGAGTGGAAAGTTGGAAGGAAAAGG
5352 CaTSNP8348 GATATTTGAAGTATAAACTTTGGGGTGCCACTTGATTGTGGTATAGCAACAAGACTTG [G/T] GCTCCGATCATAGCTGGGTGAGATTGTTGTTAGGATTGATGGCCCAAGCAACCCATCTA
5353 CaTSNP8349 ATAGTTTAATCTCAAAAATCTCTCTCTTTGTTTCTTCTTTAGCATCAAAACTTCCAAC [T/C] ACACACTCCTTCTCTTCTTTGTGCAACTGTTTCATTATTACAATCAATATTCCATTGAAAA
5354 CaTSNP8352 GGCACGCAAAATCCGCTTTGAGTTTCAAAAGGCGCAGTAGATCATACATACATGAGGAT [T/C] GATGGGGAACCTTGAAGCAACCTCTCCCAACTGATGATGATACTGTTTTGGTAGAGATT
5355 CaTSNP8353 GAACTTGAATGCAGTAGTGTGTTTCTTGATGTGACGCTTCCGAGCTGATTTGGGAGACTT [T/C] GGGTTCGTTCTAATGGGAGCAGAGTCGAAACAGTTTGAATTAGCAGTGTGTAATGGCGCT
5356 CaTSNP8354 AAATTTGTTAATTTAATAAATGCCAACCTAATTCACCCATTGTCTCTCCATATCTTG [T/C] TGTGCTTTAACAAGTGATTGAGCCTGCTGAGATGCACCATTGATTTGCAGTTCAGCTCA
5357 CaTSNP8355 ATACACCATATTTGGTATTTTCTGTGGCAGGTTCAAGGAAGCAGAGATACATAGACCAA [C/T] GATTTTTCTTGTATCAGCTGGATCAATTATTCCATCATCCCAAAGCCTTGCTGTTGAGTA
5358 CaTSNP8356 AAGGTGAACCACAAACAGCAAAACCAATTTGGAAGTGGTCCAAAACGGGAACATGAGA [G/A] TCTCTAGCATTTCTCTTAGGATCAGTGGCAGAGAAAACGGGTGTAGACAAGAAAAAGGTT
5359 CaTSNP8357 ATTCCCTAAGAAGCCTATAACCACAGACAAACAAGAGATTTGTGATTCTCACTCTTGTGCT [C/G] CTAGTATTCTCCTATCTTGTGCTATAGCAATTCAGATATTTGGTACTTCTTTTCAGTTT
5360 CaTSNP8358 CTTGCATGGGTTCAAACAGATAGAAAGTCAGGTGGTCTTGGTGATTGAACTATCCTTTG [G/A] TTTCTGATGTCACCAAATCTATATCAAATCTTACGGTGTCTCATCTCTGATCAGGGGA
5361 CaTSNP8359 TGTCTTCCTTCGAAAACCTCGGCTGCTAACTTTTGTGATCACTTAATCTCTGATTGCTAC [T/C] ATCTGGCCTTGAAGTTTTCTTGGATGTTTTTAAATCCTCCGGGTCATCACCATTGCTCTT
5362 CaTSNP8360 AAGTCCGCTATTTCGTTTCAACAAGGATGGAACCTTTTAGCAGTCTCATCAAACGATAA [T/C] GGAATCAAATTTTAGCCAATGCAGATGGTATTCGTTTATTGCGTACATTAGAGAATTCT
5363 CaTSNP8361 GGAAC TGATGATGCCAAAAGAAGGGGTGATGCTTTTGTGCTGCTGCTTTTCTGCCACTTG [T/G] CAAGGTTAATGGAGGAGCCTTCTGCATACGGGAAGTTAGGTTTGGCCAATCTATTGAAAA
5364 CaTSNP8362 ACTGAAAGTAAGAGAGCAAGATGTTGCAACCCATTGGCCAAGCCAGCTT CAGGAACTC [T/C] CCGAATTCATTGAAACACTGTGCTGAAGACATCAAGGAACCTTTATCTCTGAGTCTGTG
5365 CaTSNP8363 AGGTTGTGGAACAGCGTCAGTCCATGGTTGATCAATTGCTGCGGGCCATTGACCGTCGGA [T/G] GGAATAGCAGATACATTGAAGT CAGCAATGGCGTAATCTGGTGCAGCAACTTCATCTTCC
5366 CaTSNP8364 ACAATAATCCCTACTCAGATAAAGTCGACTTCAGCTCTCCATTACTTTTCAGCTCCATAA [C/T] AATATCGCAACCGCCTATCAGCTCACTTTTGTAGTAAAGCTGAGGAAAGGTAGGCCAGTT

5367 CaTSNP8365 AAACCTCTGCTATAGCCAACCTGCTCCCGCGATCCTAAAGTTGTAGCAAGGTATTCCAAATA [A/G] ACTGATAATGCTGATTCACAGCACCTCCACCAGCCACCACGGTATTTGACTCAAGCGTT
5368 CaTSNP8366 AGTCTTATTCTCTCCGTTGGATCCATGCTGCTGGTGATGGTGCTGATGATGATGCGGCAC [G/A] TGAAGCGGTTGTTGATACTGGTGGTGGTGGGGTAAAGGCACATAAGGCGGCGCGCGTAA
5369 CaTSNP8367 TGGTTGAAATTTCTCATGTAAAAATCTAATCCCTAGCTGCATCAACTGCAATTCTAAC [A/G] CGTGCATCCAGTTAAGAGTTGGCCCGGTTGTGCCCTTGAACCTCCCTTTCTACCGTGC
5370 CaTSNP8368 CGATGCGGCGGTTGGAGAAGGTGATGTGGCAGGGCTGATAGTTTTAGCACCAACGTTGAT [T/C] GAAAGCTTTTGACCAGCGGAGCAGTGTCCCGAGAAACCACATATGAAATAATGAGTACCA
5371 CaTSNP8369 ACCATGAGGTCCAGGAGGATCCATGGTCATGTCTTGAAGTATGGAGGCTCGTGAATATA [T/C] GTTGAAGTTGGGGTCCCATGAGTAGAGCTTCTCAGCAGGAACCTGTAGTTGGTTCCACATC
5372 CaTSNP8370 CAATTCCACCACATACAAATCATGTGATTATAATGATGCACAAGACAAGGACACATTCCA [G/A] TGGTCATCACTTGATCCATCCAACGCTGAGACACATACCGTGGCAGTTCCCTTTACTAAAG
5373 CaTSNP8371 CCTTGGATCAGGTTCTGTATAACCTGCTTCCCTTGGCTTCAGCAACTACATCGCTAAAAGC [T/C] CGGCCATCTTTGAAGTTATTTAAAGATGTAACCTCAAAGTCCCACCTGAATATTCCTTCAATT
5374 CaTSNP8372 TGTAATCTAGAATTCGGCCCGGTAAGTAAAACCTTGACCAACAATTGTTCCAGCCAGAATT [T/C] GAACTCGTCTTTTATTTGGAATAATAATGGATAATTTGAAGGAAAGGAGGTGGGTTTG
5375 CaTSNP8373 GTTTACCTCTGGGGCAAATGTTGTGGTTGTAGGAATAAACATCACAACCCAAGTGAATTT [G/C] ACAGATGACGATCTCCTTGAACCTGAAGGAATCTAAAGGAAAGCATGCATCTCTTTAAGT
5376 CaTSNP8374 GGCGAAGCTCCCTTTGTATGGTTTCAAAAAGGGTGAACATGTTGAGGGAAAGGACTTGTG [T/C] CTCATTGCATGTAAGGAAGGCCCTGTGGCTTTTTTGGACTCAATATTTCTGGACAGTGG
5377 CaTSNP8375 AGTTTGGTGTGTGTGCTGATTTATTTGGTTTGATTAATGTTCAACTTGGTAAGCCACCAA [G/A] GACACCATGTTGTTCACTCATTTGATGGTCTTGCTAATCTTGAAGCTGTGTGTGCCTTTG
5378 CaTSNP8376 TAGTTGATTCTTCATCAAGTGGGACAACCTCGCCGTTTGAATTGAGAAGTGTGTCACAGG [T/A] AGCAAGAAGTATTTTGAAGCAGTGTGTTTACAGTGAAGTGTGTTAAACCTCCACTAGGGAGCTC
5379 CaTSNP8377 TAATAATAATGGAGGATGGTTAAGGGCTTCAAATGATCAAGGAAACAATCTTGAGTCTCC [T/C] ACTTCTACTTTATCTTTTAAAGGAGATGTTCCACCAACTATGACTAGTGTGAGTGGG
5380 CaTSNP8378 CCTGAATTAGAATGCATATTTACCCAGTCCACCAGGTTACCCCTTAAATCTTCATCGCCA [G/T] TGTTACCTCGAGAGGTTTGCACCCGGTAACCAACTCCAAAAGCAAACCTCCAAATCCAT
5381 CaTSNP8379 AAGGAGGACGTTTGTGGTTGCCACTGTTCCCTCCTGTTAATTGACCGCTCATTATTTTTT [G/C] CAAACAGAGAGCAAGAGAGAGAGAGGTTAGTTAGGTTAGGGTCTTCCGTTTCGGTTTAT
5382 CaTSNP8380 GGTTGTCTTGAATCTTTTGTAGATGAATTTAATAGCGAAATCTCATCTCCAATGCTGT [C/G] TAGGCTAGAAATGAATAGCAACACATAGTTATTTCTTGAAGACTTCAATACCCGATTTAAC
5383 CaTSNP8381 TTCATAAAAGTTGTCAAATCCATCATCTTTAGCATTATCCAGCCAGCCCAACCAGCATC [G/A] TTATTATGGGGAGCTGATCCTTTGGCTGGTCTTCCCTTCCCTAGAATCTTTGTGGTCCCAA
5384 CaTSNP8382 AACAGTAGAAGCAGCAGCTGCTGCTCAGCGTGAATGCACATGAGGTGGTTTGCACGCAG [G/A] TTAATGTCAGCTATTTACATGCAACCTCAGGTATATGAAGCTAAGTTTAAAGGGGAGGTT
5385 CaTSNP8383 CTAGAATTTCTGTTGCTGTTGCACAGGAAGAAGTGGTTGTAGCTGCTGAAGAGAATGCTG [A/G] AGAAGTAGAAGTAGAAGAAGAGAAGGAACAAGGAGGGGAAATGTAGCCAGAAGAAGACA
5386 CaTSNP8384 AGATATGTTGAAAAGGCGGCTATAGAGTACCTCTGTCTGAGATCTTGAAATCAAGAT [T/C] CCTGCTCTGAACATAGAAGAAAATCCGATTCAAGAAAACAACCGCTTCTCTGATTTACTA
5387 CaTSNP8385 TACGCGACTAACACCGCTCGACAAGAACCGCTTTTGTCTTTTAAACGAAACAACAACGTTT [G/A] TCGTCGTTGTAGAATCGGAGACGAAGCAGGCACGGCGGGATGAAAGTTCCGGAAGCGGGC
5388 CaTSNP8386 TACAACAATTGATGAAAATAAAGATGGACATCTTACTCATGGTGAATGAGAGCACTGGT [C/T] GTTGAATTCATTTGAGGAGATAGACCTGGATCATGACGACGCTGTGAAAAGAATAATG
5389 CaTSNP8387 GCAGTGGCTTGTCAAGATTCATCTGAACAGGAACAGTTAAGGGCAGCCAGATAAGTGC [A/T] CAGCAAATAAATAAGGTGGAAGAATTGTGGAAGACAAATCCTGATGCTTCTTTTGGAGC
5390 CaTSNP8389 AGTATGGCATTGTTTCTTCTGGGGTAAGAGAGGCTTTAGTAGCCTTAGCTTTACTGACA [G/A] CAGGTACCAAGGGCATCTCATCTATGTGAGGCTATCCTCATGGTTTTCTATCCAAGTTA
5391 CaTSNP8390 AAGCACAAAAGGCTGTTCAATATTGTAATTCAGTGGTGAACAATGATTACCCCTT [A/G] TTCTACCTGTATTCCCTCCCTTCTTTCTTTTAAATCATTTCTTTGTTATTAAGAAGTT
5392 CaTSNP8391 TTCTGCCTTGAGGAGAGCAGGAGGCACAGCTTTTAGTAATATGGCTGTTGGTTATAATAA [T/C] GTAGATGTTAATGCTGCAACAAGCATGGTATTGCTGTTGGGAATACTCTGGAGTGCTC
5393 CaTSNP8392 GTCATAAGCTGAAGACCACTTGTCTGAAGGATGTCGAGACATATGTTGCCAAACTGGTC [A/G] ACATTTGGATGAAAGCACATAGTCTCAAACCTTCACTTGGGGTGGCTTAAAGGATAGTCC
5394 CaTSNP8393 TCAGGAGTATGAATGTTACCCAAATGCCAAAAGAAGCCATCATTGGTGAAAATCCAAGA [T/C] ATTCAATTTGCAATGTAAAGGGAAACAACAATATCACCATGTCAGTGGATTTGAGATGC
5395 CaTSNP8394 GTTCATTGAGGAAGTCATGGACCTGGTGGAGCTGAACTCATTGAGGAACTCCTTGGTTGG [T/A] TTGCCTGGTGTGAGTGGTCTCTCCACCGAGCAACGCAAGAGGCTGACTATTGACGTCGAA
5396 CaTSNP8395 CATAATCAGCCAATGTTAAGCAATGCAAACGATGGTTACAGTGGCGTATTATCAACTAC [G/A] CGGTCAAAGGTGAACGATAAAAAGAAATGGTTGCTGTTAGAGCTGGTGGTAAAGGCTTACG

5397 CaTSNP8396 CTTCTTCAGATGATCTATATCTTCAGGTTTCTGTGGTTGGGATCCCACAATCAAATACTC [C/A] GTTATAACTGTATAATTCATACCCAGATCGTGATGATACTCATAAGGGTTCTCATCATC
5398 CaTSNP8397 GACTCTTCTCCAAGCATATTGAATACATATAAGCAGTGTAGGAAAAATAAGTAGAGTAA [C/T] CTCAAAACCACAAATGCAGTGGCCAAAGCCAAATAAGTTTCTGACGCAATAAATTTTCT
5399 CaTSNP8398 TCATCAATTCAGGAAATGCAAGTTTACTTGGATGGGCTATGAGCTCCTTGACCTGAAG [A/G] CCAAACCTTCTGATCATGCTCCAGTTGCTTCTGTTAGTCTTAGTGTCTTACACCAACAT
5400 CaTSNP8399 AACTAAATATGGTATGAGTACTGAAGTTGGACCTGTCACTCACAATTACTATGATAATGG [A/G] AGAAGTATGAGCTCAGAGACTAGGTTGCTTATTGAGAAAGAGTGAAGAACTTGCTTCAG
5401 CaTSNP8400 AGGCATGTACTCATAACCCAAAAGACTTGAATCTTCGCTAGTTTACTGCAATAAAGCTT [C/T] ACCACGTTCCAGTGTCTTATAGAACTCAAAGCCTGAACCTCAGCGTCGAATTCATTTCGAC
5402 CaTSNP8401 AAAATCAGGAAAATTCGATGAAGAAAGTTTGAATTTCCAAAAGAGAATAGTAATGTCATC [T/A] GGCATAGGTGATGAAACATACATTCCAAAGTCATAAATTCATCAACGAAAAACACAGCA
5403 CaTSNP8402 TGACAATGATAAGGTTCAATGTCTGAAAAAATTTCCGGTCAATGTTCAAAATGCACAAA [T/C] CAATTTTCATGATATTAAGAAACATACCTGCAATGAAGTAAACAGCTACCAAAAATCCGATC
5404 CaTSNP8403 CGGAGGTGACAATGAGTCTGGTGGTGGTATCGAAGTCTGCGCTTTTGATAATCGGGGCGT [C/G] GGTGCGGAGCTCCGTGCCATTCAAATAATCCGATTATTCAACCATGATCATGGCAAAGGAT
5405 CaTSNP8404 ACCTGCCAGTCTCTAATGGGTGCATATCCAAATGCACCTAATCAATGGACTAACTATGG [A/C] GCACAGCCTCAAACCTGGCCGGCGCCACACAAGCACAAGCACAACAATGGCCTGCTGGT
5406 CaTSNP8405 TGGATAAGTTTGGTTTCAGAGGTAGGTGCGTTCCCTGTGCTGGTTCAGAGGACGATGCAC [G/A] TAAATTCATTTCTATTGCCAGTAATATTAATGAAAACCTTAGGTGATGGAAGGTTGGAAGA
5407 CaTSNP8406 TATTGTCAATGTTATGCGGGCTCTTTCTCTTGGACAGCTAATGATTTGTTCTTCTCTCT [T/C] TAGCACTCGAACAAAGCTAGAGCGGTTAATGGCCATGCAAATTTTCAGCAATGGTTTCTCC
5408 CaTSNP8407 TGCAATGAATTCCTTGGTACGGGCGCAGCAATTATCACAAATGCACCTTATCTTCTGAA [C/T] GTCGATTGTGATCACTACATTAACAATAGTAAGGCACTTAGAGAGCCATGTGTTTTATG
5409 CaTSNP8408 CAGCGGAAGCAACCAAGTAGTGGATATTGGGAAGATGTGAAAGGTCGGCAGTGTGAATT [C/G] ATCACCGGCCAAGAAACGAGTCTCCCCAAGCCTCTTATCGTACACATCAAGCACTTTCCC
5410 CaTSNP8409 TTCCATGAGAAGACGGAGGAAGAGAGAAGGAGAAGGAGTATGAAACGCAGCGTTTGGTTG [C/T] TCATATTGTGATTGTGAATGTGAACGTGATTACATAGCAAAAAGAAAGCAGAAATGAAAGT
5411 CaTSNP8410 GGTGAGAGGCGAAGAAAAGAGAGGGTTCATGACCGACGACACCGGGACAGATATAGAGAC [C/A] GATATAGAAAGCATCGCCGTGATTACATGGATGATTACGATCATGATGAACTCTAATGGT
5412 CaTSNP8411 GGTCTAGTGACCGAAAATCGCCTGCGAGACACTTGCCGACGATCACAAAACGGATCCG [T/C] CAGAGCGTCACTCCCGATTCTCCGCCGAGTCAATTTTGGTCTCCAGAGATGAAGAAACCG
5413 CaTSNP8412 TAACAAAATGATTATTGAGGAGACAAAAGCGCAGTATTCACGATGCACTGTGTGTGGCTAG [A/G] AATCTTATTTCGCAATAATTCAAATGTTCTATGGTGGTGGTTTCAGCCGAGATATCTTGCTCC
5414 CaTSNP8413 ACCGGCATATGCTGCAGCAGCCACAGCAACCCCTGCTATTAAAGTGTAGTCATAATTT [G/A] AAACCTTGAACAACGAAAGTGCAGGTTTCGAAATAAGATTGAAGAATAGAATGAAAGGAA
5415 CaTSNP8414 TTTGTATTAGGATATCCCTGAACAAGCTGAAGCTCCAGCAGCGTCTCGAGTGCCTGCAAG [T/C] GCACAACCTGCAAAATCCTGCAGCTGCAGCTCCTCAAGCAGCACAACTGCTCCTGTTACC
5416 CaTSNP8415 GAGAGTGAATTGGCCTGTTATCATGTTATCACAAGTGAACAGAGGCTAGTAAGTTTAC [A/G] GTAAAACAACCTCATCCAAGTAATGTTTGGTTGAAGAACACAGGAGTGGCTTTTATTGAA
5417 CaTSNP8416 GCGACAGAACCTCCACTTGCGAACACCAATTTCACTATCTTCCCGTTAACATTTCTTTCAA [C/G] TTCCTCTTTACAACCTCAACTCATCATCCTCTTTTTTTCGCTACTTTTTTCTCTCTAATT
5418 CaTSNP8417 TAGATGGTTTAGAAAGATTGCGGAGCTGCATGATGTTCCAGATATAACAAGTGAATATC [T/C] GATGACGATTTCCCTGAAATAATGCCAATGCGTAAAGGAGAAAATCGATTTGTTCTTAGC
5419 CaTSNP8418 ACACCATCAGGAATGATTTCCACAGGAAATTCCTTACAGATACATGAAGTAAGTCCTTA [A/T] GTCAGAAGCCTGAGTGTGTTGGAGTCTGAAGAACTTGCACTGCTGATCAAAAATGATTA
5420 CaTSNP8419 AATTTTGGAGCAAGCTGTGCTAGAAATGAACGATGATTTGACTAAAATGCGTCAAGCTAC [A/G] GCACAAGTATTGGCATCACAAAACGGATGGAAAATAAATACAAGGCTGCACAACAAGCA
5421 CaTSNP8420 AACTCAATTGCAGTGTGAGGTTGTGTGGATGTGATAGGTTCAAAAGTGGTTCAATGG [T/C] GATGTTATTTAAAACAATAGTGAAAAAGGATGGATACAAAAGGGTCTATGCGAGGGTGGGTT
5422 CaTSNP8421 CTTAATCTTCCCTCTTCAACCAACTTTTTAAGCTCTCCCATAGTGTCTCAATAGGTAC [C/T] GATGTGTCAACACGGTGTGATAATAGAGATCAATGTATTTCGACACCAAGACGTTGAAGA
5423 CaTSNP8422 GGTAATGAGCTATGATTCACATACCAATAATGTAATGGCAGTTGGATTCCAGTGTGATGG [G/A] AACTGGATGTATTCTGGTTGCGAGGATGGCACGGTTAAGATCTGGGATTTGAGGGCACCT
5424 CaTSNP8423 AGTTCGGGATGAATCTATTTTACATTCGTCTAGCATGTTATGTAATGGTTACCCTGAGAA [A/G] TTGATTAGTGGCAGCTCTAATGGTTTGCTTAATAATGAAAGAAACAGGCAAAGCCTTGGAA
5425 CaTSNP8424 TCCTAAGTGAAGGGATGTGACTCTTCGGTGTGTTGCCATGAATCTGTAAGGCTTATGCA [C/T] GAGGCAGGTTATGATATTGGAATTTAGATGCTACATTGATACCTCAGAGGCCGAAACTA
5426 CaTSNP8425 AATTATCAAATCTCTAACTCGTTCCAATAGAATCGATTCTCCGATTTCTCAAACCTTTA [C/T] GCCGAAATCGAAACTGATAAAATTAAGCTGACGGTCACTTATTGAATGATATAAATCTC

5427 CaTSNP8426 TGGTACAAGTGGAACTGTGTTAATCTGGTGTGGTGTCTGTGCTGTTGCTGTTGGTAAATGG [C/T] GGTGATGATGTTGGTGGTAATGGTGGTGTGGTGTGTTGTTGGGGTTGAATTGGTGTAT
5428 CaTSNP8427 CTAGAAAACAGAATATAAATGTTCCCTTATAACCGACTTAACATCGAAGCGGCCGAAATCT [G/A] CTTCTGCTCTTCCAGGCTCCTGCCACCTAGTAATATAGAAGCCTTTTGGGAGAAGATGAT
5429 CaTSNP8428 ACAAAAACAATAAATTTGTAGTGGGGACCAATGCCTCTAAAAACGACAAAAAAGAGAGTA [C/T] ATAGTTGGTTTTCAAAGGACTATTGGTGGTGGCCGGTTAGTGAATAAAAAAATGGTATG
5430 CaTSNP8429 AGATTGAGTCTTCGAGATCATAGCATCTAAGAGATGGTCAGTGTTTGTTCCAGAGAAGAT [A/G] CCATTGTTTGATATGCTTCGTTAACCGCATAAATATTATCATGACTTACAACCGGAAAG
5431 CaTSNP8430 CTCAATCGGAATCGACATAATCCACGATCCAATCGTACTTTTCCTCGACGAGCCAACTTC [A/C] GGACTCGATTCAACAAGCGCGTTCCCTGGTTGTAAAAGTCTTCAAAGAGTCGCACAAAGC
5432 CaTSNP8431 CTTCAAGAGGAATTAGTTAAAAAAGTGCTGAATTTAAGCAATCAAGTGCCGTTCTTGAG [G/A] TCAAAGAGTCAGAGCTTGTGTGATGCTAAGCTAGAAATCCAGCATTGAGATCTGAAAAGG
5433 CaTSNP8433 GCTCATTTTAGTGGCCTTGTGCTGCTCAGGTGGTTAACAATCCGTTTGAGTCTGTGAC [G/A] TAGTGACGACAACAACCTCACAAGAGTTTGGGGCCCTAGGGCAGGTATGATCTTCTACA
5434 CaTSNP8434 AAACGAAGGTAATCCAACATGGACAGGTACTTAGCATTCTAAGTTTCAAGTCTGTGC [A/G] TCGTTGGGGTCTTCTCGGCTTGATTCTCAATGTAATGCTGCTGCATTTTTGCCGACTCA
5435 CaTSNP8435 TGGAAATGTGGACTGACATAAGTGTAGACTTTTTTCTCTTCCCTGACCTTAATCTCATCAC [G/A] AAGGAACATTTAGGAGGAGAGATAAATACCTCGATCTGTTCTTCTTTGTGAGTTTGAAGGG
5436 CaTSNP8436 CTCTTCATCTCCTTGTTCCTGTAAAATCAAACCTCAAGAACTTCCCTCTCCATTCCGCTGT [C/T] GTTCTTTTCACTTCCCTGACAACAACCTCCCCGACTCACAGATTCAACCTATCGCCGCT
5437 CaTSNP8437 TGGATGTTTTGCTGTGACCTCTCTCAACTCTTTCATGGCTTCATGTTCTCTTGGGAACAC [G/A] CTTGTCTCTAGAATATACTGGTAAAGAGCATCACTTTCGAGAAGGCTTTTGTGACCAACC
5438 CaTSNP8438 AATGTCTTCTGGATTGCCACTGATGACCAGTATAATGTGTATGACAAAGGCTTGTTTAC [T/C] GCACAGCCAAACACTTCCACCTTGTACAGGCCGAAGAAGGATCTTGATAACGAGGCTTAT
5439 CaTSNP8439 CAGTCTTTGTTAACCTTTTCCAGTCTCTGCCGAGAGGCTCGGTTGGGATCCTAAACCA [G/A] GTGAAAGTCACGATGATGCATTGCTGAGAGGAGAAAATTTGACTTCCCTTGCCGAGTTTG
5440 CaTSNP8440 CTTGTTCCCATGCTTTTAGGTTACGCTTCTATGCTCCTTTATCGTCCGAGATGTGGTATC [G/A] TCACCTTCTTTTTGGGATTTCGTTACCTCATTGGCTGCCATGTTTATTATATAGTGGTG
5441 CaTSNP8441 CATTACACCTCTTCCAAAATTCAGCGAATGAGACATTAAGTTTCAAATTTGATGATA [A/G] ATAAGAGCTTGATCATATAGCTACAGATTTGGACTACTCTAGATTGGTGTGACAGCAACA
5442 CaTSNP8442 TATTAGATAGAAGTATAGCGGCCCCACCCATTCGAAAATGCAATTAGATAGAAGCATAG [G/A] ACGGTCATTTCCAAAATACCAATTAAGGGTTAAATTTCTCTGTGCTCACACCACAGCATA
5443 CaTSNP8443 GGAACCATCAAGAAGCTAACCGCTGTTTCATGGTGGCAAAACAAGCTATGTGCTACACAAA [T/C] TAGATGCAATTGATGAAGCAAACCTTTGGATATAACTACAGCTTAGTGGGAGGAACAGATG
5444 CaTSNP8444 TTTCACTCTTGGATTCTTTTCATCTGAACACTTGGTAGGAATGGGTAGTCTGGAAAATA [C/G] TTGGCAAGAATTTGAACTAACTCCCCACGGTGCAGGAACCTTTCAGCACATAAGTATCGA
5445 CaTSNP8445 GTGGGCTAAACAAGACCTTCTCCGCGAGCAAAAACAAGAAGCTTGCATCTTTCAGAAAGGA [A/G] CGTGACCATTCAGAAGCTGAAAGAGCTCAGCATATACAACAAATACATGATCTGCAAGAA
5446 CaTSNP8446 ATTATGTTCAATAATCTTTGTTTCAGATCTTCTGCTGCTTTTCACTCAAAAACCTTTC [G/A] GAGACCATCTCATTTGTCAAACTCATTCTTATATGTATCCCAAAGATTTGTCCATTGGATG
5447 CaTSNP8447 CTTATTTTTAAAGTCTTTGGTTTCAAGACACAGACAACGCATTGCTCATATAGACAAAAGA [C/T] GTTGATGGATAAAAAGTTGTATAAATGATATAATCACCATTGAGCAAATTTGCTACTGTGG
5448 CaTSNP8448 GAATGCTGGCCCTAATATTCTGGTCCACCTCCAACAATGCAGGTGGGTACCCTCCTAA [C/T] AATGCTGGAGGATATACTCTGCCCTCCACCAACCAGGTTGGGTATGCCCCCTCCACCC
5449 CaTSNP8449 GAACGAGTTTCCGAGAGGAAGAGATCAGGTGTATGGCGAACTGCAGACATATATTCCA [T/C] CGGACGTGTGTGACCGTTGGATTGATCATGATCAGAAGCTGTGCCACTTTGTAGGACC
5450 CaTSNP8450 GCCACAAGAAGAACTAGCTCAAATTTCCGTACATCGAGTTATTCGACCTAATTAACAAC [G/A] AGTTCAGGAGTTAACTCGTTTCATCTCACCTCAATCTCACCTCAACCCGTTTATCT
5451 CaTSNP8451 CCTTGACCTCCTGGGATGTAGCATGGGATGAAACTTCTTGTCTTGAATACTGAATC [C/T] ATCATATCCAGCACTAATTTGTCAGGATGAACTCAACAATCTTCAGGGAATGAAGCTGAT
5452 CaTSNP8452 CATCCTCATCTCTTATCATATCTTTAAATGGCAGGATATCAACAGGAAATTTGGCAAC [C/T] GTATCCGATAAAGCAGCGTCAAGCATATCAAACGGACGCCCTTGGAAAAGTCTTCCAAT
5453 CaTSNP8453 CCGTCTCCTTTTATTATGGCCAGCAAGCGCCTTCGACAGCTTCTCTTTCCTTTCATCGAA [C/T] TCTTGAAGTATGTGAAACCTACTACACTGTTGACAAAACCTCTGCATTGCATTTCCACA
5454 CaTSNP8454 AGTGTAGGTTTGGAGGAGGAGTGAATGATGAGAATTAGTGATTTTTCTGATCTCAGA [G/A] CGCATCTGTAGAAAACATGTTCCAACCTGCCTCTGTCGCGTGAAGCCAGCAGTTTGATT
5455 CaTSNP8455 CCCCATCTTTTCCCTGGATTGCATGTAGATCAACCTCATAAACCGATTGGTTTCCAGCTC [G/T] TCTTCAATGGTTGAGGGAATTTGTTGGTTGGCCAACCTTGCCTGATTTTGGCCAGGTT
5456 CaTSNP8456 CCAGTTGTGCTGAGGTGCATATCTTACTATCTCATAGATTGTCCATCCATGCCAGTAATC [A/G] CTATCAATAGTAAGAAGCTTTGTAAGAGCAAAAAGTACCAGCAGCAAGAACAATACTAGCA

5457 CaTSNP8457 CAAATTCCTCACACCATAATCACATGAACACCACGCAAAGCAAGGACACGAGTAGTCTC [A/G] GCCCAATGCCGCTGGATGCTCCAGTGACAATAGCAGTGAGACCAGTGGCATCGATTCCA
5458 CaTSNP8458 GGGCGCAGCTTGTGGAACCATAGAGTCTGGGGAGTAGCTTGAATCCCAAATATTCTG [G/A] CCAAATATGCCTGGAGTCCACCAGGACTACTTGACCAGCAGGTTGTGTCTGGCCGAAG
5459 CaTSNP8459 GCTATCGACGGCTCCCGCAAATCATCCCTGGTAGAAAGCATGCAGATAAGATGGTGCCG [G/A] AAGGACTGATAAATATACCCATTTCAACACCATTGAAGACCAAGAACAACCTTGATAAAA
5460 CaTSNP8460 GATGATACAATATGATGTAGATACATGAAATGAATTAATAATGTTAGGGTCCCTCCGAAG [T/A] AGGTTAAGTTAGAGAGATAGAGAGAGAGAGTTGGGTTTGTGTTTGAAACCTGAAGCTCTG
5461 CaTSNP8461 TGGACTGTATTTCACTGTATTTTCAGTTGTTTAGACGATGTACAAGTTTTAATTTGGTTC [T/C] GATGTGTGTTTGCTTGAGTCAACGTTCAAGGGTTTGTGGACTGTTAATTTGTGGCCCT
5462 CaTSNP8462 TCAACAACCTTCAGTTCAGCATTTTGAATCCTAAGTGTAGCTCAATTTCTTCATCA [G/T] TGAAACTCACTGAAGGTCTGTCTTTGACAAGATAGGAAGAATGGTAATCCCGGCATGGC
5463 CaTSNP8463 ATACACCTATGTGCTCAATCGCCTCCAGGCATCATTGAACCAGCTTTTTCGAAGCCTCG [T/A] ACTCCTTCAGCCCCATGTTTTGCCTTCAAGTTTCCACTACACACCAGCAAAATTCAGC
5464 CaTSNP8464 GGAAGACTTGGTTTTGAATATCTTTGCTTCATCGTCTCCTTTGTATTCTGACTCTGTAG [C/T] GCTGACAATTTCTTTCATGCTCAATCTTACACCTTCTCTAGACTTAACTTCGTCATAG
5465 CaTSNP8465 AGGGCTAGCTAGCAAGATAATGGAAGTGTGTCTCTAGAAGTAGGGCTAGAAGGAGGAAG [A/G] TTAGAAAAGGAAGTTGGTGGAAATGGAAGAGCTTTTACTTCAAATGAAAATAAACTATTAC
5466 CaTSNP8466 AGAATATTCCTCAGAACCCCGGCAGAACGATACTCTGTACCCTGTACTCCTCATATCC [G/A] CTGATTTCAATCCTGCTATGGAGCCATTGTGTTCTGAAGGAAAGTGTATCATGGAGATG
5467 CaTSNP8467 TCAATCGTATTAAGTACTTTACCCTTTCTTCTAATTTCTCAAATTAATCACAACACATA [T/C] ATGGCTTTCTTTCTTTTCTTTTCTCTTCTTCTTTCTTCTGCTTCATCAGCCACCGCTTGTGAT
5468 CaTSNP8468 TCACAGATCAAACCAGGCCTGACTGAACGTTTTGAAATTGTTGTCAACAAACGTGAGCT [A/T] TGCAATGCTTATACTGAATGAATGACCCGTAGTACAACGGGAGAGATTGCTAATCAA
5469 CaTSNP8469 GCTTCTAGTGATAACTTCATCAAATATCTCACCTTCTCCGATATGGGAAGCACCAGTTCC [A/G] AACTCTGATTGTGATGCAAGGTTGAATGGCAGAGCAGTTTGTCTTTCATAAGCTGCAGCA
5470 CaTSNP8470 ACAGTACACTACATCCCCTCTCCAAATATTAAGGGGCATTTACAGGCTCTTTTACACA [A/G] TACTTCTGCAATTCCTGAACCCTTCAGCTACCTCTTTATGTTCTTCTTTTGCAGTAAA
5471 CaTSNP8471 CATTGCCCCCTGGATAATTTGAGTGTATCATTCATTCATCTGGGAATCAAGATGTTTCAG [T/C] TGGTTGAGTACTGCACTAAGCTGGGGAGCAGAATGTAAGTATATATGCCCTAGATTAG
5472 CaTSNP8472 CAAACCAACGAATGAATCTGTTGGCTCAGTTGCAAAATCAAGTACACAGCGATCCACAGG [A/G] GTAGTAGCGATGTCAGAATAATTGATTGCATCCACTGTGCGAAAAGCTGCAAAAAGTGGG
5473 CaTSNP8473 GGTGTTAATGTTGCTTTGGTAGGAATGTTGGCACCTTATGCACGAATGGAAAACCGTC [A/G] ATATCTAGGGGATTCCTTGGTAGTATGCAGAAAGCTTATGCAGCTTGGCTAGCAGTGTA
5474 CaTSNP8474 TTCAACAGGTGAAACCGCTTTCGCTGGTGCCCTTTGAACTTCTTCAATAACTTCCTTTGA [T/C] TCAAACAATTTTGGCTTCTAAACGTTTCCTTATTTTGGACTTCTTGAAGTCCAAAACCT
5475 CaTSNP8475 AATGGTCTGGAAAGCCGTAATGGTGTGAGACAGCAGCAGAATCCGGATGATCTTCAATA [C/T] TCTGAATTTCAAGTTTTCTGAATAGCTTTTTCTGCCACACCCTTGTCACTTGTTCGTGTT
5476 CaTSNP8476 TCTGCACTAACTTTTCAGCCTCTAATCGAAGATTTGCGTTTTGATTCTCCAACATATCAC [A/G] ATGTTTTTCAGAATTTCTCAAGTTTTTCACTCCTTTCTCAACTTCATTTTTTAGTTGTT
5477 CaTSNP8477 AAAGTGGGGTGCTTGGAAACAGAATCATCAAACCTGAATCCACCGGCTTCTGGAAGAGAT [C/T] ACCAGCCTGTGGTGAAGCGGTTTTAATGGGGTTGAGGGCCAGGTCCCAGAACTAAAGAA
5478 CaTSNP8479 ATAGTCATCTGTATTTATATATCTTGGAGAAGCACCAGGAGAATAAGCCTCTTGAAAAG [T/C] TGAGGCTTTTAAATGGAAGCTAAGCAACCAATCATAACCAGACATAGAATGACCAACAAG
5479 CaTSNP8480 TGACAAGTCACTGTTGCTTCTGGAGCATCTCAATCTCCCTGCTACAAGAAAAGAGCGC [G/A] AGTGTAGAAAGGTTCAATCCAGCAGCACTAAGAGGGACTACATTTTTCGTCAGAAGTCG
5480 CaTSNP8481 CTCTTTATCCTTCTTCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTATCTTCGACCTCTGCATC [C/A] GCTTCTTCTACTTCTTGTCTTCACTTTTTCTTCAATTTTCAACTTTTGCCTTCTTGCA
5481 CaTSNP8482 AACAAAGATTCCGCCGATGCCGCCATCGCCGCTGGCCACGACCCTTCCTTTGGAGTACC [A/G] TTAACCTCAAAGGTTCAAGTGTGTGGGCAACGGATCCTCTGGCTATGTGGAGGGAAG
5482 CaTSNP8483 AGGACGTTATTTGTCAGTCTTCAACGTCAAGGTTACTATTTCTTGACCTTTCAGTCTG [A/T] GGTCTTGGTATCCTGAAACTACTCTCACCAAAGTTCAACCTGTTTGTCTGCTCATTTA
5483 CaTSNP8484 ACTAGGGAAAGCAGTGAAGTTGGACTCGCGTGGTAGGATGGTACTGGACTTGGAAAAG [T/C] GACGATGTGGACTTGGCTGCATCGAAGAACAAGCACTCATATTTGGTGGAGTTCCTCCA
5484 CaTSNP8485 GACCCTCGAAGGGTCCGTGCCATATCAATTTGGTTAGGGTTTGGAGTAAAAATGGTTGA [T/C] TCAATTGCTGCAACTTCACTACTTAGCCACCGTCTGTTTGGTGGAAATCTGATTAGA
5485 CaTSNP8486 CAGCCGAAGTGGAAATCACAAGCTCAACAACAATCTACTCATCCAAGCTACGCCAAGCC [C/T] TAACCGGAATCAACCGCCACGCCGAGGTAAGCCGTCCGCGAAGCCCGGCATAGAGCAC
5486 CaTSNP8487 TTTGGTGCCTCAGATATAATTGCTGTGATATTCAGGATGAAAAGCTACAGAAAGCAAAG [G/A] CACTTGGTGTACTCACACGATAAATTCGGCAAAGGAAGATCCCATGAAAAGATACTTG

5487 CaTSNP8488 ATCTGATTTGAGAAGAGGACGATCGTCGCGAACGGTGTGATGTTTCCGTTTGATTTCCG [T/C] GGTTTTGAATTGAGGTCTTTCAGTTCTGACTCCATCCCCTTCATCATAGTTCATAGATTG
5488 CaTSNP8489 GTGTTTGTCTTCCGTGTTTGGAGGATATCAGCGGTTTGTCTGGTGTAAATCCAGGGCAAC [A/G] GATTTAACATTTATAGAGATGTTTGACATTATAAGTCTTAGGCAGTGCCTCTACAGCATC
5489 CaTSNP8490 CTCTTCCCATTGGATCTTTGCCAAATAAGATGCAGAAGACTTGGAGATTGACAAGTCTGC [G/A] TGCATGTAGACAATGGAAGCAACAAATAGAAAAGAAAACCCGGAAATCAACATCAATGGC
5490 CaTSNP8491 TCTCGAAAGTCATGATTGATGAGCATTCAGCAACGCTCTATAAACCATATCAATGAATTG [G/A] TTGTCTGAAACAAGCACCAGAAGAGCATCTCGGACCTTTTCTCTAGAAAATAACTGGAACA
5491 CaTSNP8492 ATTGCAAGGCCAAGGACATTTGTTTTAGGAAAGATTCCAAATCTGAAATATACAGAAAT [A/G] TTGAGCATTATCCAAATGCAAACCGTGTCTGGAATACTAATCTAAAGATTGATGCAC
5492 CaTSNP8493 CATCACACTTAAGAAGCTCAGCAGTCGTATTAAGATGGAACCTAGACTTCTCATCTTAA [G/C] GACGGAAGAGTCGATCTCTCTCTCTTTTGCAAATCAACATTTCCAAGGTGCAAAACTGC
5493 CaTSNP8494 TGCTTTAGCTGAAGGAGATAAGATCACCTTGAAACTGCAAAACTTTTGAGAGAGGATTA [T/C] CTTGCTCAAATGCTTTTACGCCATATGACAAGTTCTGTCCCTTCTACAAATCTGTCTGG
5494 CaTSNP8495 ATCAAAGCCATCTCCGTACCCTCCACACTTAGTTGCTACAATATATTCACTTCTCGGAAC [A/G] TTCAAAGCTTTTAAATGCCTTACCGAGAACTTTTTCCGACAGTGTCTCCATAGTACGGA
5495 CaTSNP8496 ACACTACACCTATCCGACGTACAACCTCACCTCTCGTAGAGTAGCCTCCGGTCTCCACAA [T/A] TTGGGAGTCCAACAAGGTGACGTATCATGATCTCTCTCCCAATTTCCCTGAATTTGTC
5496 CaTSNP8497 AATGGGTAAGCAGTTTTTGAAGTGTGAAGCAAATACCCTTTGTGTTGGTGAAGGTTTCATC [G/A] ATGGCTGTTAAAGCAATGAAACAGTTGGGTTTTCAACTGTTAGTGGTGTTCACAGACAC
5497 CaTSNP8498 CTTTCTTTGGTTTGATCCTACAAAAGAGTTCACAGATACTCCATTTCTATGGAATATGTA [T/C] CAGATTGTGTTTTTTGTGGACGATGTTCCCATAGAGTATCAAGAACAGCAAGGATTTG
5498 CaTSNP8499 TTTCAATCTTCATTTGATTATAGCGAGCTTTATAAGAGACAGAACATAGTGCCGCTTCCAG [C/T] CTCGAGCCATAGATTTTTATAACAATAGAGTCTGAGGCTCTGTTGCTCCATCATCATC
5499 CaTSNP8500 ACAACCGGAGCAGCGATTAACGGCGCGTTTGCTTCTGACGACGTCGTTTGAGGTTGAAC [T/C] TGCGTATCATCGTCGCTAGGGTGAGATCTCTTTGGGGAGCGTGATGACGTGGCGGATCTG
5500 CaTSNP8501 CAGTGTGGATTTAGTGCTCTTGCAGTTAGAGTTTTAAAGCAATATGATGTTCCAATAAGC [A/G] CTAGAAACATTTTGGAGGATCTGAACTGAAAAATGCTGTAAAAGCATTTCAGTCACTGGC
5501 CaTSNP8502 GGTATCTTTTGCAGGGTTTCGAAATTCGTTGCCATTTTCTGGGCTAGTTAGACAGCTTGA [A/G] CAAGAGATGGAAACTGTGATTAAGGTGCTGACGCTGGACCTTTGGGAATCATAGAGCAT
5502 CaTSNP8503 TAAAACAAGAACTAGCAGAAGCCGAAACTCGTAACCTCTGACCTTAGCAAGGAGCTCCAAT [T/C] AATACGAGGTCAGCTTGCTACTGAGCAATCAAGGTGTTTCAAACCTGAGGTGGAGGTTGC
5503 CaTSNP8504 TCTGCAACAGAGGGGTAGCATTAAAAACTGCCTCACTGTGCGCTGTTTTTGGAGACCCC [A/G] CATTAGGGGAAGGAAGACCCAAGATACGCTCATCCATTTGCATAGACCCTGCATTAGGAG
5504 CaTSNP8505 AGCTTCTCAAAGTTCAGGGGCACAACCTAACACAAAATGCTGACACTGCCAAGCATGATGC [T/C] GAAGTGTTCAAAACCCCAATGAAAGATGTGAAGGTGATGAATCTGAAGAGTCGGAAGCT
5505 CaTSNP8506 CAGACTTGTGAAGCTGTAACCAAACCAAAGGCTAAACGGTAAAACCTGGAAGTCATGACA [A/G] TATCTAGCAACTCTCTGCATCTCCAAGAGATTACGGCACTATTTAGAATTCACTTCCAT
5506 CaTSNP8507 ATGAAGTTACCAGCACTGGACATTTCTCCGAGTACGATGACCACTCATGATAACCAGAAAC [C/A] TATTGGAATCAGAGGAACTGCCGAAGAAGTGGCTAGCTCTCCCTGAAAAACTAAGAA
5507 CaTSNP8508 TGCAGCAGAAACAGCAACAGCACCACCAGAAAGAACTGAAGACAACCTTTTCTCTTCC [A/G] CTAGCAATAAGCTCGGCAAAATCTTTTCCCTTAACTTCAGTTAGGAGAAGCTCAATCTTC
5508 CaTSNP8509 ATTCAAGAGGAGGAGAAAGTTTCGGCCGAACTTAGTTAAGGGGATTGCGAAATTTAAG [A/G] CAGCTGTTCACATGTTTCAGGGAACATACTGAGTGGGAGGTAGCATTGTGAGTTGTGGG
5509 CaTSNP8510 TCCACGTCTGCAATTTGACGTTACGGGGAAGTCTTGAATTAATAAGTTCTTCCGTCG [A/T] ATGGAGTTACAATGTCCCATGAGAACGATCAATCCTATCCAACCTGTACAAAACGACCT
5510 CaTSNP8511 TCTAAGGTTCTGCGCTGAGCTACTTCATAAAAACGTGGTAGCACACGATAACGCTACGGT [G/A] CGCCACGGAGTAGAAGATTGGGAAAATGCACCTAGGCTTTTTCCACTTGAAATTTGAT
5511 CaTSNP8512 GAAAATGGAAAGACATGGATAAAAAATGGACTTCTGAAGATGAGCAGCAGGAAAGCGTTA [A/C] TAGAATAATTAAGGAAACTGTGAGTAGAAGTTGTAATGTGACACATTTCCGACATAAGGA
5512 CaTSNP8513 TGCTGAGGTTTCCACAGGTGATGTAATGTTGAGACAGTTAAGGATTTGAAGATAGACTC [G/C] ATAGAAACTGATGAGAAGGTTGTTGTTGCTCTGAATCAATAACTGATGAGAAGGTTAT
5513 CaTSNP8514 ATGCTACATGCATCAACTTCTTAGTGGATTGGATCATTGTCATAGTCACGGTGTCTCCA [C/T] CGCGACATAAAGGGTTCAAATCTTCTCATTTGACAATAGTGGTGTTTTAAAGATTGCCGAT
5514 CaTSNP8515 GCAAAGATTGAACTTTGAGAGTTGAGGTTGAGATTGAAGGGTTTATGGGAAATGGGCT [T/A] TGAGGAAGTTGGTGGTGGTGAAGTGAAGAAATGGGTGAATGAGAGGTTGTAGATT
5515 CaTSNP8516 CCCTCCGACAGGTGACACC GCCGTTGAGGCTGATTTGTGTTACCCGAAACCGGCGCAAC [C/T] GGTGAAGGATTGTGCTGGTAATTTTAAACGCTCCACGGTTAAAGGAATGTCATAAAC
5516 CaTSNP8517 ACCAGACATATCCCTTTTCTGTTGGCAGGACGGTTTTCAACAGTGACCTGAGAGGGATTCT [T/A] GGATTGGTTAGTGTACCGTGTGATTATGCAGACGGCGAGGGATATGTCGGTTCCGGC

5517 CaTSNP8518 GATGATCGGTCGAGTGGATTTCACAAAAGTATGGATTCTGGCAACAAGATAAAATGGAA [T/C] GGATATTTCCCTGTCAAATGGCACATTATAAAAGATGTTCCAAATCCTCAATTACGGCAT
5518 CaTSNP8519 CAGTCAAAGTACCAGCGATCTTTGCATCTTGTCCCAAGAGTCACATGTTTGAACCTGGTG [T/C] CTTTAGTTTTATTGGATAGTTTTGGAACTTTGGTTTATAAAGGAACCATTTTTGTGTTGT
5519 CaTSNP8520 GGTGATTTCTTAGTGGCTGAAAATTACCATTGCAGTTCGACAGTAGTGAGAGAGCTTCA [A/T] GTCCTAAACATAATATGCCTAACTTAAATTATAATGTTAATACACCGAGTATGGATGGTG
5520 CaTSNP8521 ATAAAAACATGCACAGCATGGCCAGTGGACTGAACAATGATACTGGGGAGTTTACCTCCA [C/T] GGAGAAAGGATTTCGGATGAACCAACATCAACACTAGTTATATAACCAAGATAATCACTTG
5521 CaTSNP8522 TCCCCTTCCACCGCCAGCGGCTTACTCCGTTCCGCAATATCAGGCGCAACAGTTATTTGA [G/A] AGAGATGCACAGATAATAACGCCGGAGGCTCTTGAGAATGTGAAAGCAGCGATTGCGAGT
5522 CaTSNP8523 GAGACACCATTTTGGGTCACTGTACATCTCATCTCGTAGCAAGATCCACAGCTCAAACC [G/A] TTGTTAAAAAGTGCAGTGCAGTGCAGCAGTGTGGTTCCATAGCCTTGGCTGTACAAA
5523 CaTSNP8524 TTTCTCTCTACATTTTCAATTTCCATCATCTAAAAATGTCCACCAGCACCGAAGCCGAACA [C/T] CACGAAGAGGAGGAAGTTCCCGCCGGTGACGACGAAGACACCGGAGCTCAAGTCGCTCCG
5524 CaTSNP8525 CCTTAGGGTCAGGGCTAAAGCTGCTGTTTCGCTATCCAAATGTGTCTCCAAGATGCAGGG [A/G] ATTGAGGAAATGGAAGAGTTGGGATGGAAAAGTTGATTGAAGTGCAGCTGATTACTG
5525 CaTSNP8527 TGCTGATCAGGGTGGGAGCTCTGTTCTTTGAGGTATGACTTGACAGTTCATTTGCTAG [A/G] TATATGGCTATGAATGGTCTGACATCTTTAAAAAGGTACCAATAGCTAAGGTCTACAGA
5526 CaTSNP8528 TACAATGTCCAACCTACTAAAGGGTAGACCTGTTCCAGGTCGCATATTTGATGGTAAAGA [G/A] GCACCACAGTTTGTGTCTCTTTTCCAACCTATGGTGACCTCAAGGGTGGCTTGAGCTCT
5527 CaTSNP8529 TTCTCAATATCCAGATGCTGAACCTAGAATGCTAAAAATGGACAATTTGTGAAGGTTTC [T/C] GGGGTGGTTACATGCGGTAATGTTCTCTAGAGTCTGCTTTCAAAAAGTTCCAAGATGT
5528 CaTSNP8530 AGCAGCATCAAAGGGGGCAACTGGTCTTAGAGCCAATGTATCAACAAGGACATTTCCAAA [C/T] AGTCCAGAAAAAATGGCGACAAGACCATTTCGAAGAAATATCGCCTTCGAGAATGTTAAT
5529 CaTSNP8531 AGATGAAACGAACACGCCTCTTGAACGGCGCCGTAAGATCCAATTGCAATTGGATCGAG [A/G] TAATAAGGGGAGGCAATCCCGTCGCCGCCCGATGGAAATAGAAATTACATCAACACCG
5530 CaTSNP8532 TTCTTGAATGCCACTGTTTTTCCAATCGAAGATCGGTGACATTTGCAGAAAAATCCTTGACC [A/T] CCCTCACAGAGACCTCCAAGATCAACTCCATCAGTATAGGTTTTATCAAATCTTACACCA
5531 CaTSNP8533 AAGAATTTGATGAAGCCTAAAAAGCGCAAAGAAATCATCATTTCCCGTAAAAACCCCTTGA [G/A] TCCTTCACATCTTCAACAAATGAACTGCCTGAAACATGCTTTGTGAGAGGTTTCACAGTT
5532 CaTSNP8534 CGCCGATCCCAAGCCGGAAGCCATCCGCTTCGCTACTATTCTTAACGTCAATCCATCGGA [G/T] CGCGAGAAAGCAGCCGATTTTCTCGGTTTTTATGAAGCCGTCATGACGAAGTTGGAAGAG
5533 CaTSNP8535 CATCTTATCTGTTGTCACGGTCTCCTTGTACCCCTTCTCCTAAGATGCATTGCAAACC [G/C] TCAACTATGTCAGAGAATGCAACAGTTGGAGCAACAAATGTTGGGAGTGGAGATTGTGCT
5534 CaTSNP8536 AGCTACATGTTCTTTAGCTGAAGCTATTAACCTCTTTCATTTCACTTCTTTTTTGTGTGTA [T/C] GTAACATCATAAGCATCAATTTCCAGGTGTTTTTCTTCTATGTATGCAGCGTAGTAACGG
5535 CaTSNP8537 GAGACAGAAAGTGGATTTTTCCAGCGAGATTTGCAAATGAAGCATCGTAACCAAGAGC [C/T] AATAATCCATCAGTAACAATCTTTCTGCAATATATATCTTTGCGTTTACACAATGTTTTG
5536 CaTSNP8538 TCATCATGGGCATCTTGTCTTTTCTTGGGGAACAAGAATACTGCTCCTCTTATGTCTGT [C/T] CAAGCTTTAATATTGCCCTCCACCCATTTGAAGATAGTGCTTTCTCTAGTACCGGATACT
5537 CaTSNP8539 CTTGGCTCGATACTCTTCAATGGTTAGATCAGCGAACC GGTCAGACCCAACCTATAGGT [T/C] GAATTCAGAACATTTATGTTTCATCGATGAACCTAAGGTTGCTTTGAAGATGTCAAACCTC
5538 CaTSNP8540 CGTATATTTCCCTTCAACAGATATTCTGCGTCTATTTAGAGTACTGGTGTAGTCTCCAA [C/T] TACATAATCCATGTTAATGGACAAAATATTGACACTACTCAACTTGCTTGCTTTCAGTG
5539 CaTSNP8541 AACCCCTCTCTTAAACTCTTTATCATCGTTTTTCTCTTCGTGATCAGAACAGTTTCGTGT [T/C] GAACGAAATGTTTCGAGTTTTTCGATGAAGCCTTTTCGCTAATTTCTCGTAAGTAACACTT
5540 CaTSNP8542 CCACTCCTTTTGATAGAATCCTCCAGGTGCTATAAGTGAAGGTTTGGAGCTGGTGTCTT [G/A] TATAGTGTGTGTAATTTTGTTTAAGCTTTATCAAGTCTTCCATATTTGTGCAGCACCA
5541 CaTSNP8543 AAAGTGCCAATCATGATCATAGATGTGTCGATGAAAAGCTTTTAGTATTGGAACCTTGAC [A/G] TCTGTATCTATGCTAGTATCATCTCAACGGTATCGAGAGCACGAAGAACCAATAGAAAT
5542 CaTSNP8545 GTCGAGATGCAGGCTCTAAGGGCAACAGCATTTTCGACGCTCAACCGAATCCGCAAGC [A/G] TTGCCTGGTGCAGTGTGGCCACTGGACCTTCACTTCTCAACACCTGGCTGTGCATCCC
5543 CaTSNP8546 AGCCTTCCATTACAACTCTGGTGGTGTACCACAACATAATCTTCTATCATCTATGTGGTC [A/C] ACATCAAGTCCAATAAACCAGCTCCTAATGACACATCTCATTTGCATACTTGTGAAGA
5544 CaTSNP8548 AAATCCAGGATCAATAACATAGACTATACCATCAATTGTCAAGGAAGTTTCTGCTATGTT [C/T] GTTGATACCACAATCTTCTTCCGGCGGGCCCTCCTCTTTTACTGGAGGTGGAGCTGGC
5545 CaTSNP8549 TATGATCAGGAGTTGAATCCTTGGGGCAACTGAAACTATCTGGGACAGTTTTGGAGATAA [T/C] CTTAATTGTGGTTATATTGAATCCAAGGTAACACAAGTAGTTCAAGTAGTCAACGGTGGT
5546 CaTSNP8550 GGCAGAGAGAGCTTGGAGTCATGCCATGGAGAAAAGGCAGCTTCCGAATGGACCAATGC [T/A] TCTCAGCGTATCTATCTGATTTGGTAGGTTGCGGAAGGCAGTAAAAATGGCTACTTTGTTT

5547 CaTSNP8551 GAACGAAATTCAACTAAGATAAGCAGGGATCTTGATGCGAATGAATAGCATACTCATAAC [A/G] TAAGAAAGAACAATCGACGAAACACCAGCAGAAGCATAAGAAACCTTAACAGATTTATCA
5548 CaTSNP8552 TACAGAAATGCACCTTCTCAGTTGCAGAAGCGCAATGAGTTAAATGTTTTGAATGTGTTAT [T/C] CTATGTCTTCTATGTGCATAAAATAAAATGTGTCATGGTGTTAGCTTGTGTATATGGTC
5549 CaTSNP8553 ACCACGAGAAATACGCGTACGGGGCTCCACCACAAGAAACATGAAGCAACCTTTCTTC [T/C] GTAGAGAAATGCTCTCCAGGTCTTTCTCAGTGACTCTTGAAGATAGGCCAGTCACATAG
5550 CaTSNP8554 GTTACAAGGTAAATGCTGAGTATGGTGAATTAATAAACTACTCAACCTCCTCGCCAGA [C/T] AAATCTGCCACACAGGATCAATCTCAACAACCGGGTCTCTAACATGCTTGTCTTCC
5551 CaTSNP8555 GACCCATTTCTCCATCTTGTGAAAAACAATGGCTGCTTCTTCTCATCAACCTCTGTGTT [G/C] CTTCTGTTTCTTCTCTTTGGCTTTGCTGCTTCAGCTAAAGATATCTTGTCTGGAGGAAAG
5552 CaTSNP8556 AAGAAAATGGATCCAACTTTGAGACACCAACAAGCCTCCACCTACTTTACTCAATGCT [T/C] TAACTTGGGCTGCTCATATGGGTTAAGTAGTAATCTTAGGTACCAACTCTAAATGGTG
5553 CaTSNP8557 TCATCTACCTGAAAGGAACCTAAAGGACTTGGTTGAAGTACCATCATCGGTGCTGGCCA [G/A] TTTGGAGATACTACCTGCAAAACGAATGGAGGATGTGTTAGAGCATGCTTTTGACAGTGG
5554 CaTSNP8558 GTCGGTACTTTCGCCTGATAAAATTAAGGACAGACACGACAGTGCATCGGTAACCTCGG [T/C] ATACCTCAATACGGAGGTAGCATGGCCGGTACCCTCGTTTATCCAAAAGATAACAATAAG
5555 CaTSNP8559 TGGTGATGAGATAAGAAAGATATGGCTGAAATCTTGCAGGCAGAGCTTTGTGAAAATGCT [C/A] GCAGATAAGCAGCGCCGTGAGACAGAGGAGATTAAGCAAAGGCTCAAATTTCTAATGCA
5556 CaTSNP8560 TGCCTTGAGTAGTCCAATAGAAATCCATCAAAATCAACCATCATTGATTTGGATCTCTCG [T/C] CGTCACTCAATAAATCACGTAATGATTGCTTTAATGTCTCAACGTGCGCCTTCAACT
5557 CaTSNP8561 ACAGGAATCCTATATCAGAGAGGCTATTGGTTCTCCGCTGCTTCAATATCTCTGAAGCC [T/C] GTGCATGCAGTTATCATTGGTGAAGAGACGTTCCATGGGATTTCCAGCATGTCTTTGCT
5558 CaTSNP8562 GATCATCCCCTTTTCCGCGAACTCGTCGAAAGGTACAGAGAAACAGAACAACAAAACGAC [A/G] CCGTCAATGTCGTCGCATGTGAGGTTGACTTTTCGAGCATTTGCTTTGGATGCTTGAAA
5559 CaTSNP8563 TCACCCTGCCCTAATCCCCTTTCAATTCCTGAACCCGGTCCACCTCCTCCTCCGGCCTA [C/T] GGCTTCCACATGCTCGAACGGCGAACCATCATCTCGCCGACGGCAGCGTCCGATCGTAT
5560 CaTSNP8564 GAGAAGTGTAGATCCTTCGAAACAGCATCTGGTTCTTTACATCAATTCAGCAACCGCT [A/G] AACTTTGCAAACCGGACCGCTGCTTTAATGCAGGCGCAGATGTTGCAACATTCACAACAA
5561 CaTSNP8565 CAGGCAAGGTCTGTTTTACTGACGTACCTTTTCTGTGCTTCAACTTATCCACTTCTTCT [C/G] TTGTTGTTGTTCCACGTAGACGCCGTTGCCGTTGAAATTTCTTTCTCCGCCATTTTCAG
5562 CaTSNP8566 GGTGAATACAGAAACATAAAGAGGCCCTTTCCGCTCTATGGTCCACGAAATATACAATA [C/T] GATAGCCAGTGCAAATTAATCCCGCATAAAGAGAAGAGGTAAGTCTCATTGCATCATGG
5563 CaTSNP8567 GGGAAAGAAGACGATCCAAGATTTTCCAACACTGTATGACAAGTGTGAGTGGTAACAGGAG [G/C] CTTCTTCTATCGCGAGAATCTCAAAACTCTCAGTGCCCTACATCGCATCTTCCAAACT
5564 CaTSNP8568 CCTCCGGTGGTTGTTCAAACCTTTCTTCTCATCTTATTCTGAACAACCTCAGACCCCTCAG [T/C] TCCTTTGTCACTCAACTTTCTCTTTTGTAGTGTGTAACCTCCTCATCAGCAGTGTGGATTT
5565 CaTSNP8569 CACCATCATGGCGAGACGCCGGAGATGATTCGAAATCGTGGCTTTTCTTAGAGCTTTC [G/A] ATATATTCGGAAGTGTGGCGAAAAGGATGACACGTATCGTTAACTTGCATGTCTTCT
5566 CaTSNP8570 TCCAGTAAATCTTCCAATACCAGCACCAAGCTCAATAACTGATTTTCTTTCATATGCTGG [T/C] AGAAGGGAAAGTACCTCGGGTCTTTCTTCTTTGTCTAGATCGGAAGCTTTGGAGTCGAGC
5567 CaTSNP8571 GGTTAGCCGTTGTGTGCGGAAGTACAGGAAATGTTGTGATTCGACGCCGGCTCCTCATA [T/C] CTTGCTTTTGTGAAGTGAAGACATACAACCTAATGTAAGGATTTGGTTCGCTGCTACTG
5568 CaTSNP8572 TATACTTACCTCCTTACATTCCACACCCAGTTTATCACTCACCTCCACCACCAGTTCAT [A/T] CTTCTCCCCATACATTCCACATCCAGTTTACCCTCTCCACCACCAACTCCAACCAAGA
5569 CaTSNP8573 GATCCTTGGAGAAGAGTACAGACAGAACCTGAGGTGGAACGGCGATGACGACGTAGATGA [A/C] GAAGACGGTAATGGAAGAGTGATTCTCCGCATGAATTTCTTGCTAGAACGAGAATTGCT
5570 CaTSNP8574 TCCGACCCTGTTTTCTTGGCCTCTACTAAACATCTTTTGTAAAGTTTAAACCCTGTTCG [G/A] CGAGTCTTAAAGCTTACCTTGTCCAAGACTTATGGTTAGCAGTCCCTCCTCCTCATTTGTTA
5571 CaTSNP8575 TCCGGATCAATTCAAAATATACTATGTGTTAAATCAGCCTCCGGAAGAATGGAATGGTGG [T/C] GTCGGATTTGTATCAAAGGAGATGATTGAAACTCATTGCCCTCCTCCAGCACAAAGATGTT
5572 CaTSNP8576 TATCTCCAAGGAGGAATCAGAGATCCAAGGCTTCAAGGTGAAGCATGCTCTACAATAA [T/C] TGTCTTGTGTTGTTGTTGATTTGGTTGGTTTATCAAATCGGACACTCTCGGCAAAAGAA
5573 CaTSNP8577 TGCAAGCAGATAATTGGGCATTTCCCATCCATTACAATCTCAAAGTTGGAGGCACCTT [T/A] AGCAAAAGCTTCCCTGCTCCCAACAAAAACCGGCATCAGATTTCCGATTCCTGTTGCA
5574 CaTSNP8578 CGTCTACGGTGACATCACCGACTCTTCTCTCTCCTCTCCGCTTTCTCCGACTGCTCCGT [T/C] GTCTTCCACGTGCGCGCTCTCGTTGAACCTGGCTCCCGATCCCTCTAAATTCATCACC
5575 CaTSNP8579 ACAACTACAAGTGTGACACATGAAAGTCTTGGTTGTTTTGTGACACATTGTGGTTGGAA [C/T] TCAACATTGGAAGCTTTGAGTTTAGGAGTTGTAGTATTGCTATGCCACTTTGGACTGAT
5576 CaTSNP8580 AGAAACTACCATTGCACAATTTATCAAGCATTTTGGTAAATATGGTGAGATTACCGATTC [C/T] GTCATCATGAAGGATAGGAAAACGGGCAGCCTCGTGGATTCCGGTTTATTACTTATGCA

5577 CaTSNP8581 GAAAAGTAGAGTAGCTGCTGGTGGTACTTCAAGTAGAGCATTTCAGTTCAGGATG [T/C] CGTGCGGATCTCAACAATGCTAAAGATTATCACAGACGTCATAAAGTTTGTGAGATTCAC
5578 CaTSNP8582 TTTTGTAGTTGAGCAACCAACACAACCCAGTACAAGGAATCCAAGCAACATCATTACTAGT [A/G] TCCATAGCCATAAGCAAAGTTTGAGGTGGATTACCAATTTTAGCCTTCAAATATATGTT
5579 CaTSNP8583 TTATCTAAATGGGTGGGCATTAGTGGTCCAATGTGCGCAATGTCATGGACATGAGATC [A/T] GTCTATGGAGGGTTGCAGCAGCTTTGAAGGATTTGAATATTTGGGTGATGAATGTGGTT
5580 CaTSNP8584 AATATCCAGTCCAGTGGGAATCTGCCACACAAGAGCAAAACATTCCACCGTATTCAACGC [A/G] ATGTGGAGATTTCTGGCTGTTTCACTCCCTTTCTGCATTGGTGGTACTAGGGCAGCTGCC
5581 CaTSNP8585 TATCTAACAAAAATAAAAATGTAGTTCTCCTTTGATGTTTATAAAGGTTTTAGTACCAAA [G/C] TAACATTAATATTTCCAAACTGAAGTTCAGAATTGTATCACATTGATTTCCATTTGCAAA
5582 CaTSNP8586 TCGCCGTGGGGCGCTGGCCTCGACCCCTCGGTAATCGAGACTTTTCCAACATTCGAATA [C/T] TCTGTGGTTAAGATTCAAAAAATTGGTAAAGGTGCACTAGAATGCGCCGTGTGTTAAAC
5583 CaTSNP8587 CCGATACGATTGGATGTGTAACGCGCTGGAGGAGTTTATGCGAGTTATGACAGACGACGG [T/G] AAGCTTGAGAAGCAAGACGAAAATGTCGATCCAGTTGATGTCTCAGAATGTCAAAGTCTT
5584 CaTSNP8588 TCCACCATATCAGAGCGTTTGAACGATAAAAATCCAAATGCCCATCGCAACAAAACCAGCA [C/T] TATCATGTGTCATTAGAACAACCTGAAAAATATCAGAGTATATAACTGAGGACACTTGCA
5585 CaTSNP8589 ACAAGCTTTCCAGAAGCAACATTTCTTCAAATGTGAAGCAATAGCTTCTTGAAATTC [G/A] GAGGAAGCTGTTTATATTTCTCTTCGATGAATTTTGAATAGCGTATTGGCTTGAACTG
5586 CaTSNP8590 GTATCCATCAAAGGCGGAAGTTGAAGGCCAGACATCGGCGACAGCGGCGGAGTCCTTGTG [C/A] GTCCGCGGAAGAAGCCTCTGTGAAGATTGAATGTAGAGAAACAGAACGAGATCATGAACA
5587 CaTSNP8591 AGGGGAATTCAGGAAGTTATTTCCAGGCCACACGAGTAGCTTACAGTGTACTGGCTT [A/T] GTCACCTGTGTAGCTGGCCAACCCAAAGGAGGAGTTTCTGTTGAAGCCCGGTGAGTGTCA
5588 CaTSNP8592 CCTGGGTGCGCTGTACGTATCTGTTGGTGGCATGCTACTGTTTGTCTTTACGTTTGTCT [C/T] GGAGCTGGCCAGTACCAGTCTCCTTCTAACAGAAAATCTTCTCGTGGTGAATCAGAGCC
5589 CaTSNP8593 GCTGGATTTGTGGTGAAGTATTTTGTGCTGTAGAAGCTGAGATTGCAAAAGTGGGCTAG [A/G] CGTCGAAAGAAGTTGTTGCTGCTGCTGCAGTTTATGTAGAAACTGCATGTGCAGTTGTTG
5590 CaTSNP8594 GTCCTTGAAAAAGGTTACTTGAAATGGTGCATGAGGCTTTTGAATTGCAATGGATTTG [A/G] ATTTGGATTTGGATTTGAATTTGAGTTTTGTGTGAGATCTAATGTAACAGTAGGGAATGG
5591 CaTSNP8595 TGCATTCCATTCTAGCCATCCAGTGGATGTATGTGATCTCCCATGTATGATAACATGTA [C/T] ACAGTTTTAGAGTATAGTTTTCCATGGACGCGCCAGATACGTTTGAAGCTACCCTTGAT
5592 CaTSNP8597 CATTGGAAGTCCATTAATTCTAGAGGTGAGGCTTGACCATCCAACCTGATCTTTTCTGA [T/A] ACCAAGAAACCGTGAAGAACTCAAGTTTGAAGAAAGAAATTTGTGACTTGAAGAATT
5593 CaTSNP8598 CCCATAATGGAATGACCCTTGTGGGTTAGGCTTAGCAGCATTAGCTGTCAAATCCACCT [G/A] TAAGTTATAGCTTGTTCATAGACCAGTCGATTTGTCCACAGGGGAGCAGGCAAGGGT
5594 CaTSNP8599 TTCCTTAAATGACTCCTAGCTTTTACCGTAATCTCAATCCGACTTTTGAATGCTTTTC [G/A] ACTTGAGCTTCCACCCAAAATAAAGGCTTAACCTGTGTGCTGAGCCTATATGTATCAAA
5595 CaTSNP8600 TCTGAATTGGTTATATCTGGCTACATTCCTCTCTATCTCTATAAAATTTCAAGAGCAGC [T/C] AAGTCCACATGATCAGATCTTCTGTGCCATCTACGTTATGTGGTACTAAGTCTCTGAGC
5596 CaTSNP8601 CTTGATTGAGTTGATTGAGGATTATGGTTCTGATGCATTTCCTTTCAAGAAAGAGACA [C/T] GAGGAATTGAAAGCCATAGATAAAAGAAAACGTGAAGAAGTAAATTTGGAAGAATTATTG
5597 CaTSNP8602 CTCGAGGGATTTTTCATGGTTGAGAATGTTAGGAAGGCTATAAGGATTGATGAACATGAC [T/C] CCGACAGCCTTACCCTTCTATGGTGGATGATGTGTTCTATGTTTTGCAGAGTTGCTTGC
5598 CaTSNP8603 AAGGTGAAAGAAGAAAACATGGGGCCAGTTTCTTCTGTGGCAGAAAACCTGTAGTAATG [A/C] AGTCATCACATTATATGGAAGAGAATGATGCCGTTTTAAAGCATCTGTTCATCGCATG
5599 CaTSNP8604 GCAACTCTCATCCTCTCCTCATTGAATAGCTCTATGAGGTGATCTTCCAGTTGCGTTAG [C/T] CAACCACCTCTGGCCATTGTCACAGAGGTCTCAACTTCAGAAAAGTCGTGTTCAATCAGCT
5600 CaTSNP8605 TGAAGAGCAACAAACCAGAGTTTGATTGATCAACGGATCAAAGAACATCTTGGCAAGC [T/C] GCGGCTTTTTCAGCAGGTTGGTGTGGCTTTTAAATCATTTAATGGTTCAAAGGCCAAACCTT
5601 CaTSNP8606 TTCCCTGGCAGATGGTTTTCTCAGGCTTGTGAAAGGTAATTCATAGTCTTTCCAGGT [G/A] TTTTCTTCAATGTTTTTCTCTTATGCCTCCTGAAGTGGCCAGCTTCAATACAGTATCTT
5602 CaTSNP8607 AAATGTTTGGTAATTCAGATGAAGAAAAGCTTGGATCCTTTTCATAGACTTTATACTATG [T/A] CTCCTGTGGCAAAATCTTGGTTCCTAATCTGATGGTGTTCATTAGGACCCTTGTGTT
5603 CaTSNP8608 GAGACAATTTTAAATGGTGAGGGCTTTTGACCTTTTGAACCTCGCTCGTGTGATGCCA [A/G] ACCATGCTGCAAGAATACCAACACCTGGTGTGCAATATCAGGCTTGAAGTATTTCTTTG
5604 CaTSNP8609 TGATTGTAATAGACGGAGCTTCAAGTCTCGAAGCTCTTTCCGTGAAAATCCACTAAGA [A/T] TGGTCAACCCTGCTTCAAAGGAATCAATTGAAGCTATGAAAAGGGTTGAGATTGAAGA
5605 CaTSNP8610 AATAATAAGGTCTTGAAGATCGAAGGATTTGGCTTTGGAAGGAAGGTTACCGGTACGGAG [G/A] AGAGAGAGGAGGAGAGAAAAGTTCAGGGTCTCGGTCAACGAAAGGTGTGAAGGTGAA
5606 CaTSNP8611 CCAGAGTTTGATCAATGCAGATGGTGTGATGAGTCTGTTTCACTCCTGGTCGATATGG [A/C] ATGGAGATTAGTTCTGCTGCTTACAAAAGCTTTTGGCGTATTGACAAAGATAGTCTCCCT

5607 CaTSNP8612 CATCTCATTTTTGCCATATTATTGGCGTGCTATGCAATGTGCAAGACGGTGGTTTGTATGA [C/T] GGCGATGTGAACCATTGGCTAACATGGGAAAGTATGTTTCGGCGATGATCGCAGCAGGG
5608 CaTSNP8613 AGAAACCCTCACCTTGCCAAGCATTGGTATAAATCCACAATTCATCACTTTCACGCATGT [G/C] ACGATGGAATCTGATAAGTATATATGCGTTCGAGAAACGGCTCCTCAGAATAGTGTGGTT
5609 CaTSNP8614 CAATGGAGGAAAAGTGGACTCTCACCATCAGTAGAAAGCCACTCTTGATGCCATGTGGCT [A/T] GAACTTTGATGGCTTAAATGGGGAGCAATTTGGAGACTCCGAGGACATTTGTGGTGT
5610 CaTSNP8615 CCAGATCTAGGTGAAGAGACATAAAGGTTTGTGAAATTTGTCATAGAATTTGTAACAAAA [T/C] TATTGGCACGATAGTTAGCAAGATCCATGTTTGTAAAGGAAGCTAAACCGTGGTCTTGT
5611 CaTSNP8616 CCCGTTGTTCCGGAAGAAAACGGAAGAGCCACCGCTCTCCGGATCGATCTCCACTTCC [G/A] GCAATTCCTCTTCATTTCTTCGGAAATCACCGAGAAATGGAGACAATTCACCGCGGTT
5612 CaTSNP8617 AGAGGAATGGAAATGGTGGGTCAAATGAGGGTGGATCCCAGAACAAATCAGAGCTCCAAAG [C/G] TGACAGTTTTAGTTCTCATAATGATGCAAAATGGGTCACATGTTGCTGGAAATGTTGGTTC
5613 CaTSNP8618 CGAAGAACTCGCCACAACGGCGTCGTTTGAACGCCACTTCTCGCGTTAGGGTCTTC [A/C] ACGATTCTACCACGAAAGGGTGGTTGACCACTACGATAATCCCCGGAATGTTGGATCCTT
5614 CaTSNP8619 GCGGGAAATGCAAACCTTGATTGAAGTTGGGGCTGAGAGTTATAGTGGATGTAGAAAA [A/G] GAGTAGTAGTAGCCATGAAACCGCCATGTGCGAGATTAGATAATGTTTTGTAAAGGAA
5615 CaTSNP8620 GCTTTGTCGGATTTCATGCAGAGTATAGTGCAGCAAAAGTACCTCATGAAACGTGAAATC [A/G] TCTAATGTGCTACTTGACAAGAATGGCAATGCTTGCATATCTGACTTTGGCTTGTCACTG
5616 CaTSNP8621 CGAGGAACTAAACAAAGATGTAGTACAAAAGGAAATTTGATATTTGGCAAACCTCGTCGAC [A/G] AGTATTAAGAGCATGATAGAGCAATGAAACTGGAGGTTGCCAGGGCTGGAGGAAACCA
5617 CaTSNP8622 AGCTGATAGAATCAAGGCTGCAGCATTGAGTGTGCCAAAGTCTCAGTCGTCTCAGGC [C/T] GAAAGGGCAGCTACTGCTGTGCCGAAATGTCAATGCTTATGGTCAGAAGGAAGAAGGT
5618 CaTSNP8623 CTTGATTTTTCTGGACATGAGAAACATTGGAGTACTTGCTCTGATAGTTGTTACATCGTA [G/C] GTTTCACATGGTAAATGACTTCCCAAGTGCATCTATACCTTCTGAACTGTGAAATGA
5619 CaTSNP8624 GCTGCCACTGCGGTATAAGTCCCCATAGGATCCTTCATAACCACCAGCCGAGGCATTA [T/C] GCAGAGGATGGATTCAACTGCATTGTTGTTTCTTCCATACCCTGCTGCTCCACCTAAA
5620 CaTSNP8625 AGTTGTAGTTGTGGTAGCGTAGATCGCTTTACCTGGAATGGCGTTTAGGTCATTATCAGA [T/G] GAAGATGAAACCGAAGGGTTTTGAGGTTGAGGGTCAAATTTGAAAGCATTGTTTTAAGC
5621 CaTSNP8626 ATCATCATCTGGTTCAACAAATCGATTTTCAGATGAAGCATATGAGGATGATGCCATGA [C/T] TGGTTGAAAGAAGAGGATACTTCTGAAATGGTTGGTCCCAGTGGAACTTCCATTCTACT
5622 CaTSNP8627 TTCCATTTTTATTACTGCAACTAATTTTTGCCTCCTAATTTTGCTCTTCCAAATGATA [C/T] GGTGGATGGTGAACCTCCTCGTCTCACTTTGATCTTGCCATGCCATGTTCTTAA
5623 CaTSNP8628 CTGCAAGAGATGCAGCTGTGAATGAGACAGATTTGCCACCAGCAAAAACCTTTGTAAGACT [T/G] ATCAACATCCTCTAATGTGGTTGTTTCATCAAAGCAACAGTGATAGTGTTCATCTAC
5624 CaTSNP8629 TATATAATGTTTTGCAACTTCGTCTTTCTTGAATGACTGTGAAGTGCTTCTGCACGAAC [G/A] CGTAGCTCATCATTGCAACGCCACATAGAAAGTTCAAACATAAGATCTTCAATCTGTGAA
5625 CaTSNP8630 CTCTCTGAGGACCAACAGAGTTATGCACATTAACCTGTCAAGAACAGAGTTGAAATCTA [T/C] AGTCTGTCCACTCTCTCCATCCTTTGGATCACACTCGCCACATGGTACCCCTGAATCC
5626 CaTSNP8631 TTGGTTGTGAAGTTTTCTCCAGAGTCAGCCAGTGAATTTGGAGAATTGGTAGCTGATCCA [C/G] TCACCAATGAACTCTGCATTACACAGAAAACCTGAACTTTTGTAGTGATCTTATA
5627 CaTSNP8632 GTAATATGAGAAGAATTTGTTCACTGTGTCAATATGATTTGTCTGCAGACCAGGGAAT [T/C] GATCGAACAGAACAGTAAATGACTTGGACTTGGAGGAGATCCAACAATATGTAGAAGC
5628 CaTSNP8633 TACAGCAAACTTAAATTTGCTCAGGGGTTGTTGGAGCTGTTAAAGATAAGGGTTCCGT [C/G] TTGAAGTTGTTCCATACACCATGCAAGCTGTGAGGCAAGGGTTCAAGATATTGGTGC
5629 CaTSNP8634 CCTAGTCTATTGGTTACCTTGGTATTAGAAATTTCTGATGATTTATGCTTGAATGTAAT [C/G] TTAAGCTAGCTTTTCTAATAGTTTGGCATAAGGAAAGTAAAGCATCTTTACTGAAATGG
5630 CaTSNP8635 GATGTTAATTAGAAAACCTTCGGACCAAGTGCATTAATGACCTCCCGTTGATGATGTG [A/G] TGGGTTTCTCGGTAAGAGGACATGCAACAACCTAGTATATCGCAGTTGGATGCTAACTCA
5631 CaTSNP8636 CCAGCAGGGAATATTTATTTCAAGCACAGGAGAGCAGACCATTCAATGAGTGGAAATGG [C/T] GCAATGGCATTGATGTAGAATACGCACGATGGTTAGAAGAGCATAATAGGCAAAACCAAT
5632 CaTSNP8637 CAAAATCTCCACTCCATGGCATCCAACCTGTGGTGTGATAAGGGCTTCCAAGAAAGAA [G/T] AATGAAATTTGTTCTAGAATACTCCTTCCATGGCTTCTTAGATAGTCTTGTGTACTTT
5633 CaTSNP8638 AATTATTTCTACCAAACCAAAAGCACTAAATGAATTTGTTGAATTTAGGGAGTGGAGGAAT [G/T] ATTGGAATTGAGGTGGCATTGTTTCCACCACGATGTCTTCCAAATAAAACCTAAAATGG
5634 CaTSNP8639 AGTACGAAACGTTTCTGTAAAAGATAATCAGTAACATCAGGAGCAAGATCTCCGACGAA [A/G] ATAGAGTGATCGGGACCGGCATCAGGACGGCGTTCACCGATACCGAATGAAGCCCAATTT
5635 CaTSNP8640 GCTGGTTCACTTAACTGTCTCACCAATTCAGTGTATCCTGGTGAAGGTGCGACTCTTTA [T/A] ATATAATTGAAAAATCTATTTTAAAGTTCATCTTCTACGGCTGCAGAGGTAGCTTCCAACA
5636 CaTSNP8641 TTTGCCTTATGACCCAAAATTTGGTGAATTTAGCCAACAAACCAGAATGGTTCTTGAAT [A/C] AGTCTGAAGGTAAAGTTCTCTGTAATAAAGTTTGAATGGGAAATGGGTTCCGGATTTCAGAT

5637 CaTSNP8642 AGATGTTGATAATTGGCCTCTTGATGCAGCTATATGTAAAGCAGTGTTCCTTCATTATC [A/T] GTTGAGTTGATTATGTCAAAGGATGATGCTAGATATTTAACTACCTCAACTTTCCCTCTT
5638 CaTSNP8643 GTCACCCAACCTGCATACTTGCCCTGAGCCCTTCTATAGAGGGCTTTTCACATTAGTGTCTCTC [A/G] ATGTCCAACACCTTAGTACACAATTTCTCTGCATCTTTGACTCTTTCAACTTCAAATG
5639 CaTSNP8644 CGGTGGTTGAGCAGTTGTCAACCATGAAGGAAACACCACGAGCATGCATGAATGGATTCA [A/G] AGAATCAACTGACTCAATCACACTCTCATTAAATGATTTCCGGAGTAAGAGTGGCCCTTCTT
5640 CaTSNP8645 GATAGAGGAGTACTACTGAACACACTTACGCATCATATATAGCATAATGCAATAAGCAGG [A/G] ACAATCAACTGAGTAATTTATTTTATTCGTATGCGTGTTCCTGTTCCTCTTCCCTCGTCATC
5641 CaTSNP8646 TCCCGGAGAAAAAGGCTTGATACCTCGTTCGCTAGAACAAATATTTCAAACACGGCAGTC [A/T] CAGCAACCGCAAGGATGAAATATGAAATGCAGGTGTCAATGTTGAAATATACAACGAA
5642 CaTSNP8647 CCGGCGGAGAGAAGGATATTGAGGATGGGTGCATGGCCGTGCTTTGCAGCGTGCATGAGT [A/G] GAGTGAGACCATCGCCGTCGAAATGAGTACGTCGGCGCCGGATTCAATCAGAGCCGTTA
5643 CaTSNP8648 CGCCGACGAAGGTCGCCGAGAAGAGAAGACAACATGGTGGAGATCCGTAAGTAAGCG [C/T] GAAGAGAGTCTCTTGAAGAAGCGACGTGAAGGTCTTCAAGCTCAACCGCAGTTCCCTACT
5644 CaTSNP8649 GCTGGGTAAAAAGCATACATATTCTCTTAAAGAAGAAGAAAATACCAAGAAAATAAGGGA [A/G] CTTGGCCCATTAACATCAGATGCTTTTGGGCGTACAAACGGAGGAATATTAAGATTTG
5645 CaTSNP8650 TAATCAAGGTGTTGATGAGAGGGATCAAATTAATGAAATGGTAGAAAAGATCAAGGGGT [A/G] ACTGATTATTTTGTCTATGGTGCCAATTTGACATTTCTTGACTTAGAAGATATCAATTTG
5646 CaTSNP8651 TGTGAAAAGTTGCGTGGAGAGGCTGCTGTGCTCCCTGGCTTAAGATCAGAAGTAGAAGCA [T/C] TGAGGAGGAGGCACCTCTGCTGCTTTGGAGTTGATGGGGGAACGTCATGAAGAGCTGGAGG
5647 CaTSNP8652 TAGAGAGTCTGATCCTCCATTGGAAGAAGGATACATTTACAAACCGATAAAAATCTTCACT [C/G] TGTCCATTGCCATGCCATGATTATGGAATGTCTGGTTTGGTCCGTACCGGAGACAAT
5648 CaTSNP8653 CTCCACATTCTTGGAACACCATGATAATCCATTTCCACAAGCACTTTCTCCGACTCCGA [A/G] TGAAGCTTAAAAGGATCCTTTAGGCGACATATTTTGCTAATAACAATCAAGCATAGCATTG
5649 CaTSNP8654 GTGGAGACCATCATAAATCAGCATTACCCCTTCAGAATAGTTACCTTCTGACCGTACAG [G/A] TCACATCGTGTGTCTGGATATCATAACGTCGAATTTACGTCATAATAATCTGCTAGT
5650 CaTSNP8655 CCTTCTACACTTTTATTCGAGGGTCCGAATGGATCAGATCCTCAACATCTACTATCCAT [C/T] GAAATAGACGAAAAGAGAAAACCCCAATCCTAGGTGTCTAGTTTAACTAGATGATAGGATAT
5651 CaTSNP8656 AATCAAATGCAAATTGACATCAATAACCTCACAACGGCTGGTACAGAGACTTGTGAAACT [G/C] AATCAGAGCCAGCTGAAGTAAGCCAACATGAAAACCTGCTCATGCCATTTCTCTTGATG
5652 CaTSNP8657 ATGTAGACGTCTACATGCACAGATTATATATCTCTCTACATGCCGATGATATGTCAAG [A/G] GGAAGCAACAACATATGTTGGAAACTGAGATCAAATTTCTCGGAACGAAGTTCACAGTC
5653 CaTSNP8658 GTTCGCCTGATGGTTCAGCTATCCACACCGAATAATAGCATCGCCAGCTCTTAGTCTTA [G/T] ACCACGATGTTGTTGTGGACTTAGCCGCGGATAACCTGAAAGCTTAGAACACCACATCGA
5654 CaTSNP8659 CGTACAATCCCTCACCGTCTCTTCAATGCCTCACTGCAAAAACCAATCAAACATTTGAA [T/A] TTCCCATAGATCAAAAACCCCATGTCAAATTTCTCACTGAAAACACCATCACAGGTAAAG
5655 CaTSNP8660 CACTGCCTGGGAAGCACTGAGAGAGGACCTTGAGCTGAGAAGGTTGCAATGACTCTCGA [G/A] GAGGTGAGAGAACGGATGAGAAAACGTGCTGTCACTCACAGATGTCACGCGCTTTCCAATT
5656 CaTSNP8661 GAGGAGCTCTGAAACCAAGGAAACACCTTTGACTCTGTCTTGGCAGCTTTAATGACAA [G/A] CCTTGTGGGTATGAGTAGTTTCTAGTATTGAGTTGGAAGCGAAGAGGGTGAACACTG
5657 CaTSNP8662 ATACTTAACCAAACCCGAAAACGGTTCCTCGCTATTCGGTCCAACGTGTCAACCGGTTT [T/G] ACTTTGTAACCGGAATTTGGTTGACGTCCTGTTCGGTACCGCATTTACACGGAAAC
5658 CaTSNP8663 TAAGCAAACCAAGTCAATCGGAAGGTTATGGTTTTATCGAGTTTAAATTTCTCGTGTACTGC [T/C] GAGAGAGTGTTCAGACATATAACGGAGCCATTATGCCTAATGGTGGCCAGAGCTACAGA
5659 CaTSNP8664 AAATTGAGCAGCCATCATTCCAATCTTGTGGGAAACCAAAACAACCAATCAGCCTC [A/G] GGTAGTTCATTGGGTGTAATAAATGGCACATCACTTTTGGAGGTGCTCCCATCTTCCCA
5660 CaTSNP8665 GAAAAAGCTGAATCTAAAGGTAAGGTAACCGAAAGAAGCTTCTACATCTGAAGGTGA [G/T] AAAGCGGAAGCAGAAAACCTTTGAGGATGTTCCAGAAGCTTCTAACAAGACTGTTGTCATC
5661 CaTSNP8667 GCCCAGATTTCTATCCATCACTTCCATGATATTCTCTGCCAGTTTCTTTAACTCAGACCG [A/G] TATTCTAACATGGTTTCCCTGAAACATGGTGTATTTTCCGGCCATTCGTTATTATCCAGG
5662 CaTSNP8668 GTCTTCCAAAGCTCCTAATAAAGAAGCTGGTTCCATATCACTTGGATCAGTGTGGTGGCC [A/G] AGTTTGTCTATCGACACCCCAAGAAAATGTATAAACCTGCCTTCTCTTGACAATACAGCT
5663 CaTSNP8669 TATTTTCTGGACCTGACCGCCGAGCCCTGCCATGGAAGGCTTAAACGTCAATTAGC [T/C] GAGGCGGAGCCGCACTAGAAGCACGAAAGAAACACCAGAGGAGACCGTCCACGAGTA
5664 CaTSNP8670 GTTTAGACCGCGCGGATTTTTCGGACGGTGGAGTGGACGTCGGAGTAGGTGAGGGTTT [G/T] CCGGTGTCGCCGTTGATTAGGCATGGACGGTGTGGAATTGAGAGAGGTTTGGAAAGCAG
5665 CaTSNP8671 TGGTCACATGCCCCATGGGAAATTCAGCATGGCAAGTTCAGCATGGAAAATTCGGCAA [G/A] CATGGGAAATTTAAGCACGGAAAGTTGGCAAGCATGGTATGTTTCCAGGAAGTGGAAAGTGA
5666 CaTSNP8672 TAGCCTCGTCATCTAAGTCAACTATGGTTTCAATCATCTGTGATCTGTAATCTTGGAGCT [T/G] CTCTAGGAGATCTGCAGGTATATCTTCATAAGAAAACCTGGCACCAAGCTCTTCTCACT

5667 CaTSNP8673 CCCGAGAGAATAAGCCGGTGCAGGAAGTGTTCCTACGACGAGCGCAGAGGATCCGCT [T/A] CCTCCCTTGTATTTCTCTGTGTTTTCCACCACGTGGCAGCGGATGGAAGAGGCGCACCC
5668 CaTSNP8674 CTTGGGCCTGTTTCCTCTCTGTGTATTTGATGCCTGGAATTTGGGTGCAATGAGATGA [G/C] ATGCGTCTCCAGTACTTCGGCTTTCCTTTAAACAGCATTGACATCTGGTTGATTTGTGC
5669 CaTSNP8675 TATTGCCAAATTTCTCTATGGCTGCCCTGAAAATGCTTTTCAGGTTGCTTTGGCTGGAAC [T/C] TCGTATTCACCTTTTACAAGAATAGGTGCTATCGTGAGGAATGGAGCAAAGCTATTTGCA
5670 CaTSNP8676 TGTTCCATTAGGAAGGGTTGGACATATTTCTCTAGATACGCCAACGCGTGAGATGTCTC [A/G] AGAGCTGGAATGATGCCTTCAAGTCGTGAAACTCTCTTAAAGCTTCCAATGCTTCATTG
5671 CaTSNP8677 TAAGATATATTGGCAACAAAACAAAATGTCTATGGCCGATGAACCACTGTATCCAATAGC [C/T] GTGCTTATAGACGAGCTGAAAAACGATGACATCCAACCTGCGGTTGAACTCAATTCGTAGG
5672 CaTSNP8680 GCCTTTAGACCCCTTGAATGATTGTCCAAGGAATGCATACTACATGGATGGAGTGTTC [A/T] TCTGCTGATGGAACACCCCTTATACAACCAACATGATTTGCATTTTTGAGAGTTATGCT
5673 CaTSNP8681 CCGTCTTGTGGAACGGTGTAGTGTAGTGCAGGATCAATGTAGCGGACGGCTCGATTTGATTC [A/G] ACTATCCAACCAGGTAGTGTGAAGTTTCTCCGCTAGGTTTGTGGAAGTAGTACACC
5674 CaTSNP8682 TGTTGGTGGCGTTGCAAGAGCACGTGCTTTTGCAAAGAAATTATCTGATGCACCTTTAGC [T/C] ATTGTAGACAAAAGCGCCACGGACACAATGTAGCTGAGGTGATGAATCTGATCGGAGAT
5675 CaTSNP8683 GAGAGTCAACCTCTCCGGCGGCGGAGGGCCTCGCCGTGGTAAAGCTATCCGGGAAGTCGC [T/C] GACAGAGTGTCTCGCCGTCGCCGCAAGGGAGGACAAGGTGGAGCAGGGCCATCCTAACC
5676 CaTSNP8684 TACTGCTCTGGGAATTTATCGAGAAAGCTTTGAGAAGCCATTCCTTGAATGTACATCTGA [G/A] TTTTATGCCACTGAAGGTGTAATAACATGCAGCAATCAGATGTTCCAGACTACTTGAAG
5677 CaTSNP8685 CCATTCTTGATAACAGGTTGAGGAAGTGCAGAGGAGCCACACATCATTAGACGCAAGTT [C/A] CTTGCAGCGGATGCTGAAGTGGCTTGTATCTCAGGATCCATGGCATGATAACCTTGTATT
5678 CaTSNP8686 CTTTTTCCGAGCCTCTACCTCACCGACACGTGTCAGTCTTTACGGATCGTCACCGTCTGT [G/A] TCGGCTTCGTCGGTTCGGTTTTCTACTAGACCGTTCAATTTACCGAACCGGTCTATTTCT
5679 CaTSNP8687 CTTTTATTTCTGAAAATTTTATGTCGCTTTGCATAAACATAAGAGAGGGCGAGGAAAGCC [G/A] CGGCAGAAGTTGAGACCGAAACCCATGAAAAGGGAGGGTCTTAAAGCACACGAGAGACG
5680 CaTSNP8688 TGCGGAGGAGTTCGATGTTGACACGTGGAAGTGGGTCCAGTGGTGGAGGAGTTTTTGA [T/C] GAGTCCACGTGTCGAGGACTTGTGTGGATGGTTGTGACGTGGAGGGGAGAATGTACATG
5681 CaTSNP8689 AGCTGCTGGACTAAAAGAGGGATTCAAGCTCATGGATACAAGCAACAAAGGCAAGATTA [C/T] ATTGATGAGTGCGAATAGGATTGCATAAACTAGGCCATCAAATTCCTGATGCAGATGTC
5682 CaTSNP8690 CCCACCCGACTTGGCAATCGAATCAACACCTTGATCCGGTCTCGTCTATAGACAGGAAC [A/G] TCATTCGACTTACAAAACCTTCAATTCGTGTCATCCAATGCAACAACCAATAATTAGGA
5683 CaTSNP8691 ATGCACAACCTGTTGTTGAAGCTGGTGGTATTGAGGAATGTGAGTCCACTTGTTTAGGAA [G/A] TTGTTCTGTACTGCATATGCTTATAACAGTAGCGGTTGTTTCGTTTGGAGGGGTGAAC
5684 CaTSNP8692 TCCATAATCTTTCTTAGTAGTAAAGGCAGTCTTGTTTTCCAGAAGATTTTGCCAAGCTTT [A/G] CCACTCAATAAATAGCGAATGAAAACTTGTATGACGTCAAGAGGAAGATAGAAGATAATA
5685 CaTSNP8693 TAAATTTAAGCACATTAGCGAAGAAAGCTCTTTGATATTTTTACACCAGCATCAGTCAA [T/C] CCACCACTGCATATTTCCAAGGACCTCAGGTTCTTGAATTTTTCAAATAATTTGTCCCA
5686 CaTSNP8695 CCATTCTATCATTTTTCATTTTCCAATACCCCTGGTGGGATGTTTTAAGCCCTATCAT [G/A] TCATAAGATAAACCACAGGAATCAGTATCATTTGTGAATCTTCTAAAGCCGACGGGAA
5687 CaTSNP8696 CTTCCCCAACAAGTCCGACGCCAAAGAATTACTCTTCGGCGGAACCTTCTTAGTCTCAAG [T/C] TCATCCTTTACCGGTCCGCCTTTCGACATACTCTCAACCCAAACCTAATTTCTCCAAA
5688 CaTSNP8697 TCGTGAGGTTGTGGAGAGAAGATTATTACAGTCAAGGAACTAGCCAGATGATGAGAC [G/A] ATCGACCACTTGTATGAAACTGAAACAGTGAAGCAATCTTCCAGAAGGCAATCTTGTAA
5689 CaTSNP8698 TATCATGCGAGAGCAGCCTCGATTGGCAGGGAATCAGCAGCTAATGCACGGTCAACAG [G/A] ACAAGGGGATTCAAACCATCAGCAGTAGAAAAGTTCATGAATGTAGCCAAAAGGGGGCGC
5690 CaTSNP8699 GGGGCTCAAGCCTTGGATTTGAGATTGCCATTTGGTGAATTTGAGGTTCTTCGGGAAAAC [G/A] TTGACTTGATCAAGAGACAGATAGATCCAAAAGTTGTGGAAGATGTTGAAATTTTATCTG
5691 CaTSNP8700 CTCTTTCTTCATTTTCTGGAGATCAGCTTTGTAGTTCCTGTAACCTTCTCAGCACGTGCCCG [T/C] GCTTCATCCAAAGGACTAAGTTTAGAAGTCTTCCCTCTCCTTATCGGCCCGGGGCTTT
5692 CaTSNP8701 AGAGCGTGTGAAACGCAGGAATCAAATTAAGTCCGAGTTGTTGAGTGAAGAAATGGAGG [T/C] ACCTCAAATAACTTATCGGCTGCTGAAGTGAATATGAGGATAATGAGAAATTTGTTGAT
5693 CaTSNP8702 AACTGGAGACCTGATTCATTCAAAAAGTATCTGTTAGAATATGAAAATACAATCTGTGG [A/G] CGCCATCCAATTAGTGTTTTTCTCCATATGCTGAGGAACTGTTCAATAAAGATAAAAAATC
5694 CaTSNP8703 ACTCCCTGTCAAAGTTGAAACGCTTCCATTTGTATTATTAGCAATAGCTATTTTTATGGT [A/G] CTATCGGAATCAGATGGATCTCGAGGATGAATCACAAGTGAACCTGGAGCCTGGAATCCA
5695 CaTSNP8704 TGCGTTTGAAGTGTGGTGGTGGTGGTGGCATAATTCGTTCCATGCTTAGTCT [C/T] GTTATTGGGTTTGTATCCAAAATCATCGACGGCTATCTCCAAATGTATGATTTTTGGTGGCA
5696 CaTSNP8705 TGGAAAGTTAATGGAGGCATTAGAAGTTTTTACAAAGATGCAACTAGAGGAAAGGGTTGA [G/A] CCGAGTGAAGTTTACAATGGTGAAGTTGTTAAATGCTTGTGCTCATTAGGAGCACTTCAA

5697 CaTSNP8706 CTC AATGC ACTTCTCTGCATCCTTTAAACCTTCAGGCATTGCCCCAGTTTGGTGTAAACA [C/T] GCAGCTCTGTTACTATAAGTCTTAGGCTCTTTCGGGTTTCTTCTTAGGGACTCAGTGTAA
5698 CaTSNP8707 TAGCCGCACTAATGACATTTTCAGGAGCTGGTCTAGATGACTTTGAGTCTATGGAGTCTTGA [C/T] GCTGATGATTTGAGGCTGGAAGTGCAGGCTAGGAAACAACGAGAGGCAGCTCTTGGAGCT
5699 CaTSNP8708 TCTTGACACGCCGTTATGCAATGCACATACAACAGGAACAGATATACTATGGGCAGGTCT [T/G] CCTATGGTACTCTACCTCTTGAGAAAATGGCTACTAGGGTTGCTGGGTCAGTCTGTCTT
5700 CaTSNP8709 TGAAGATTATTTTGCTGATCGGGTGAAGCAGTTGACCTATACTTTTCTGAGAGTGTAC [A/G] ACTAGTACTGGAGCTCCTTTCTGGTCTGCCCCAAAAGATTTCCCCGTCCTACTGCAGTTC
5701 CaTSNP8710 CAAGAAAGCTACCTTGGCTCGTCCAGTCTTGGAGGATCTAGTACCTTGCCATATCCTCG [G/A] AGAGGCAGAACAGGCAGAAAACCAGCTAAGAAAGATCCTAAGAGTGAGAGTCGGAGCGAC
5702 CaTSNP8711 TGATCCAGAATAAGTGAACCCATGAGAAAATGAGCCAAGTTTGTGCTTTGCGAATGTAT [A/G] ACTTCTGAAATTTCTGGGCTCACAGGACAGCTCCAATAGGCATATATGCAGAAGAAAGT
5703 CaTSNP8712 TGTGAAAAGTGTCTTTCATATGCTTTAAATAGACAATTGAGTTTAGAGGATCTCACTAA [G/A] CCAGTGGAGGAGGAGAATATTAAGATTACGATGGATGACTTTTTGAACGCACTCCATGAA
5704 CaTSNP8713 CAAAATCGATATTCTGAACCCAGATAATCGTGACTGGCGTGGCCGATCTGCGCAACTTCCT [G/C] CTAACGCAGATGAGAGGTCTTGGGATAATCTCAAGGAGAATAGAGAATTTAGCAATTCTA
5705 CaTSNP8714 ACAAACCTTACCCTTAATAACATAACCCTTGAATTGTTTCATCGCTATGTCTCTCTGAATAT [A/T] GGTATGGCACACACAACAAGAGTTGATGTGGTTGAATTCATGAAGTTAAGTTGTT
5706 CaTSNP8715 GTTATGGTGGTCCAGGCAGTGGCGGAGGTTATGATTCAGGTGCTGGTGTGGTTTTGGTG [C/G] GACAGGAGGACTCTATTCTAGTAGGGGAGGTTATGGGGCAGTAGTCGATACCATCCTTA
5707 CaTSNP8716 TCTCGCGGTTTTCAACGACGGGTCGTAATAGGTGTTAAAATTATCAAGACCTACAACGCC [A/G] TCGCTCGTTTTTTAAGAGCGAGTGAACAGTGACTACCGACGAAACCGGCTGCACCGGTT
5708 CaTSNP8717 CCTTCTACACTTTTATTCGAGGGTCCGAATGGATCAGATCCTCAACATCTACTATCCAT [C/T] GAAATAGACGAAAAGAGAAAACCCATCCTAGGTGTCTAGTTTAACTAGATGATAGGATAT
5709 CaTSNP8718 AACAGAAAGAGACGACGATTTAGGCAGTCAGGAAGAAGCAGACGATGATGATGGCGGAAG [T/C] GACCGTGAAGGCGATAGCAGTGAATCAAATATCGGTGATGATCTCTATAAAGATGAA
5710 CaTSNP8719 GAACCACGACTATGTTCTGTTTCACTATCCAGGAAGTCCGAATGTAGCATCTACTC [G/A] GAATCCTGCATATTTCTGAGTAGGAGCCTCTGAGCCCTTAGTGAGTGATAGCTTGGTTGGA
5711 CaTSNP8720 CTCTTCTGATAGCTCTCAAAGCAGCAAGAGGAAAAGGGTACCTTGTTCCTAACAAATGA [A/T] CATGGACCTGCCATTCGAATTCGACTACCATTTAGGAAACATAGAGAACCTGAGGAATCC
5712 CaTSNP8721 GGCAAGTCCAAGGGAAGCTGGGTTATGGATGATGACTCCAAAAGCATGGCCAGTGTACA [A/G] TCAGATCGGTTCCGTAGGCACTCTATTGCCGGATCAACAATTAGAGATGACGAGACCTT
5713 CaTSNP8722 AGAACTCCATAATATCGTTTTCTCCTTCGATTTCTTCTTCTCACAGAAAAATGGAGTTTGC [T/G] GTTGCAAAAGCTTTGAAACCGAGTTAAGGAGGGAGTTTGTTTTTCAACAAACGCTAGGC
5714 CaTSNP8723 TCTTATCGCGAGTCACTGTAAGTTGCTTCCCTTGCATAGTTCGATGTCGGCTTGAAGCTA [C/T] TCTCATATTAATTTCTCCATTGGAAATTCCTCCCTGTATCCACCAGAGCGGTTTGT
5715 CaTSNP8724 TCCACCAAATGGCGGTGATGGTAACCTAGAGAGGGACTTAGACAGAGGAAGAATTAGGGG [A/C] AGGTTGTCATCTGGAAGGCTGCAAGCCCTCACAGGGGAAGGATCCAGGATAGATTAAGA
5716 CaTSNP8725 AACACCATTAATCCTAGCAGCCTCAATCATGTTGAAGCTAATCATTGTGTGTTATACAT [T/A] ATAACCGAGTGGTTGGATTGGATAAAACCCATTCACCCATATCAGCAGCAAGATTGAAA
5717 CaTSNP8726 AGGAAAAGATGTACCTGATGAGCTTTTCATGATTTTGCAAGAGATGCAGAAGAATTTGGT [G/A] TATTTTCGAAGTATGGAACAGAAGAGAGAAGCTTTGAAACTTGTGATCTTGAGAATGTT
5718 CaTSNP8727 TGAGATTGGTGTATCCCTCAGGTTGCTAGTGCAACAGCAACATTTGTAATGATGTTTTT [C/G] TCATCATTTGCTGTGGTTGAATTCATCTACTCAAGAGATTCCCTATTCCCTACGCAATA
5719 CaTSNP8728 TTTCTCAGACTGTCTGTCTCTTGTAGCTTGTCTTCAATGACAGTTCTGCAGAACAGTTTGA [T/C] GGGAAATGCAATGAAAGGAATAACCTTAGGCCAATTTCAAGTGACAGCAACAGACCTTCT
5720 CaTSNP8729 AGCACATGGTGGAGCCTGAAATGGTTCGTGTGCTTGAAGATCGGCTTTTCATGATACCA [C/A] TTTAACATCTTCTGGTATCTCTGTTATCTTGGTGGTGGAGGAGAGATGTTGCATT
5721 CaTSNP8730 TGATAATCATTTCAATGATAAGGAGTTGATAGTTAGATATCAAATGATATTGATAGCAA [C/T] AAGATTTTTTATTCTGATTTGAATGGATTTTCAGATGAGTCGAAGAGAACTTACGATAAG
5722 CaTSNP8731 ATCATAGAGAGCTTCGTTATCCAAAACCATGCATTCATCAGCATCTCAACAAGTTGATG [A/G] ACAGAGAGAGTAGCGTTGTAAGGTTCAACAACCTGTGTCAGAAAACCTTTGGAGATGGGAAC
5723 CaTSNP8732 CTTCTCCTCCACCACCTGCTCCTCCCAAAGCTCCTCACCACCTCACCCTCTCACTTTC [G/A] CCATTTCCGACCTATTTGACATAGAAGGACATGTGTCGTCGTTTGGACATCCAGAATGGG
5724 CaTSNP8733 AACATCTCAACCACCTTACATTCAAACACCACCATCAACCTCTTCTCCATCATCTCACA [G/A] TCACCCTTCTTCCAACCTCCTCCAAAATCCTCTCAACCTCCAATAACAGCACAAACACCC
5725 CaTSNP8734 ACAACTTCAGAGGAGCTGGTGTGCCCACAAAGCCAGTGGATGAATTGGAATTGCAGACAA [A/C] TATTGATGTTGAAGAGTCCAATCCACATCATCATGTCATGGATTTGTGTTCTACAAATGA
5726 CaTSNP8735 CACCAATTTCTACACCAGGGTGTACGATGACGATGAAGAATGGTTTCTGTTCAATATTTGC [G/C] AATTTCAACAACAAGAAGCTATTCAAAACAGTACGAATTTTTCTGTTCAAGAATGGGT

5727 CaTSNP8736 CGTTCATTACTTGAGTCCAACAACATAGTCCAGAGAGACAGAGGAAGCTGGAAGAAGCG [G/T] ATCACCAGGTTATCTCTGTCTTTATGGTTCTTTAGGCGTAAAACAATTAGCGCTAATATG
5728 CaTSNP8737 ACGAGATTGAAGTTCCTTCAGTTCAGTTGCCAAAATTGCTTTTTCTCCATAAAATTTCCGCC [T/A] GCATGCATGTCATTTGCTTCTTTGGCGTGCACCAACATGGCTTTTATACTGTTCTACCCTA
5729 CaTSNP8738 CAAAAGGGGTGTTTCAGTATCCTTCTTAGTGACAACAAAATGGTACTTACTCCATTTT [A/T] AGAAGGAGATTTGAGATCAATGCAAGAAGCTGCTGGAGCTTCAAAGACAATTGAAGTTGAA
5730 CaTSNP8739 TTAATGCCAAAGTTTGACATTAATGCATTTTGTAGTCATGTGAATAAATAATAAGTCACT [A/G] TTGCTCCTGTGTGCCACCAATTGTTTTGGCTATTGCTAAGTACCTGACCTTCATAAAT
5731 CaTSNP8740 GCAAAAAGAAGTCTTCCAGATATGGAGAATGCAATGGAGGTCACAACATGTGCCATCTCA [G/T] TGTCCTGCGTGGCTGATAATACTTGAAGTTGGTGGCCAGTCCTAATGTCAAACAATC
5732 CaTSNP8741 CACAAACCTACTTTTCATTGAAAACACTTATTTACAGGAGTGCATTGCTCCTTAAGTTTCA [T/C] TCATCATTGATGTCGAGATGAGAATCCGACGAAGGGTCTCAGTAGCAGAATCAGCATT
5733 CaTSNP8742 ATATTCCTCAACTTTATTAACAGGAAAGCCATTTGCAATACCCATTTTGTCCAAAGACAC [G/A] TCTGTGTTTTCCACAAAATCTCGGATGAGTGAGCGACTTTTGAGAAACTGTTGGTTGGCA
5734 CaTSNP8743 CCGACATGCTGGGTCTTTGGATGAGAATGAACCTGATGGCGAGGACATTGATGAAGAGG [A/C] TGAAGAAGATGACGACAATGATGAATTGGAATCAAACCTGAAAGGCTTGAGATTAAGA
5735 CaTSNP8744 AGGGATGGGAATATCACGTTCTCAAAGGAGCTTCCAAGCTACTCTCAAGGAAGGGAAGCC [G/A] AGCTCCTTATCTTATATATGAGGAAGATGAGCGTTTGTGTCAGGCCAGTAATAGCAGCGC
5736 CaTSNP8745 CTGGTCGAAGCAAAGAAGGCCGGGACGACTTGGTGGATGCTTATGCCAAATATGTCAA [C/G] AGTACTACGTCGAAAGCTTTGGCGTCAATGTACAACTTATGACCAGAAAATTTGAAAA
5737 CaTSNP8746 ACCATTCCCATAACCTGACTGAGTTCAACCACATCTCCTTTCTTCAACGCACACAACGC [C/T] TCTGTGTGGACCCCGCAACACTCTTACCAGAACTCGAACACGCCACGCGCCGATGCG
5738 CaTSNP8747 AGAAAGGAGATGCTGCGCAGAGAAAGCATCCACACCCGAACCAACAACCTGTAACCTGA [G/A] TGATGTGAACAATGGCATGGGTGGCTCGAAAATGAGACCAGCATACTGAACATAATCGA
5739 CaTSNP8748 ATGAGAGGTGGAATTGTGGGGCTTCTCCTGATCAAGGAATGAATGGTAATCTTGTGCAA [A/G] GTGGAGGGATCGGCATGGTTGGTTTGGCGCCCGGGCTGTTTCCAGATTGGTACTGGATCGC
5740 CaTSNP8749 CGGTCAGATCGATGAAGAAGCGGTTGGATTGACCATATGGAGGTTACCAGGAGGTGGATT [T/C] GCCGTTGGGAGATTTCATCGCGGTCGAAGAGCCGCGCAGAGTCACTTGCCGGTGGTGT
5741 CaTSNP8750 TAGTGATACCTCACCTGGTGTAGCACGCGATGCTTTCAACACCTTCTTCCAGCAGACCGG [G/A] TCCGAAAGCACGTGCCAAGAGCCTTATTTGTTGATCTAGAACCACGGTTATTGATGAA
5742 CaTSNP8751 CATGTCCATTTGTTCAACTATCTTTCTTATTTGGGGCTCAAACCCATATCCAGCATCCG [G/A] TCTGCCTCATCAAGAGCCAAATATCTTATCATCTGCAATGACACCCCTTGCCCTCTCAAGC
5743 CaTSNP8752 AGACCAGTTGTATGCAATTGAACCCGTAATACCAAGCCACAAACACCAACAGTACG [T/G] AGCTTGTGTTTCGACGACCCATTTCTGAGAGACTCAATTTGGGTTTTAGCATCCGCCATA
5744 CaTSNP8753 TGCCATTGCCACCCCTTTTGCTCCTTGCTTTGTCTAAGTCAACAAGAGCCTTGATCT [G/T] CCAATAGTTGCCATGCTTCCAAGATGCTTGTAAACAAATGGATCCCCAAGTTCATTTCT
5745 CaTSNP8754 GTGCCTTCCAGTACTTTGGACTCAAGGAAGACCAAGTACCTCTAATTATTGTTTCAAGAATA [C/A] TGATGGGAAGAAATTTTCAAACCAATTTGGAAGCTGATGATGTTCCAACCTGGTTGAA
5746 CaTSNP8755 AGGAGGAGGAGGAGGAGGAAGAGGAACAAGTTTACGACGCGTGAAAAGAGAACGCTCA [C/G] TGAAAACAACGCCGCTCTGATCATCAGGACACCACCAGTCGTAGAATCATCCGCTCCGA
5747 CaTSNP8756 AGGTTTACGGAATCTCTATGTATCTGTCTCCTTAAAACATGAAAAAGTTGGCAGGAGT [C/T] GTGACATTACAATCTGCAAATTACACTCCTGAATCTGTTTCCGAAGAGTTGGATCCATC
5748 CaTSNP8757 ATAATAATTAACAGCTTCATTTGCAGCAATGGTTTTAACATTTGGCCATTTAACTCTATG [A/T] TCAGTGTTAGCACCTAGTCTTTGTTATTGTATTATAGTAAAGTGCATGTCTCTTTGTTA
5749 CaTSNP8758 AACAAAGACTATCCCTAACAAAGAGCAGAAACCTGAGGCCTATCGGTAAAGAGCTGATCAGC [A/G] TTAAACTGAGCAACAACAGCTTTAAGAAGCTTATTACCAATAGAAGGAAGAACCTTCTCA
5750 CaTSNP8759 TATTTTCATCATGGTTCTTCTCATAATGTCACCATTTGACATATAAAAAGCAACCACAAC [A/T] CCAGCAGTGTAGTCAGCAGGTAACCTAATGGAAGCACTGAAATAGCCATGAAGGTAAGA
5751 CaTSNP8760 CATCGCTTCCACCGCCGCTTFCGACGCTGTGTACGCGCGTAACCTGGCTTAAACGCGC [T/C] GCTAATGAAGTCGTGAGAAGTATGATTTCTCCTCCTCCGCGCGCTTTAACCGGTTCCGCT
5752 CaTSNP8761 AAATGCTACATGAATATCAGATAAGTAAAGAGTTCTGCAACAGGCCCTGTTGTTGTTGA [A/G] AGGTAACAAGCGAATGCTTCTTTCAGCTTCTCATTGGATAGGTAGTGAATATTTGTTG
5753 CaTSNP8763 TATACCTAATCATCGGACATTTCCCTCATGTCTATCTTCTCCAAGCTTACCAACTTACCAA [T/G] AGCTTACGGGAAGTTTTCAAGGTTAACGCATTGAGAAACGTCACATACTTCAATCGAGT
5754 CaTSNP8764 TTATGGTTATGGAAGTCCATTATCCGTACCAGCGTTTGGCCACCTCGAAAGCTGAATTA [T/C] GTTTTAGAAATCTCCTCTGTAAGTATGAGAATAATCAAAGACAGATGATGAACTGGT
5755 CaTSNP8765 AACCGTTAAGGTTCCGTTTCCCGTTTACCGTGGTAATGGGGGAGTTTTACGTTGCTCTATAA [T/C] GATACGCGCTGTTTTCACGACGATCAAGGTCCTCCTCAAGAAGCTGTGTTGAAAGCCATT
5756 CaTSNP8766 GTCAGTGGGAAGTGGTTGACTAGACGACAAGCACACTTAGTTCGTGCCAACAGGGTAT [A/C] CCTGTATCTGAATACGGGGTTTTGGTTGATATGATCCGCTGCCTGATGGGCATTTGAA

5757 CaTSNP8767 AACCATTCGAATCTTTGGTAGCAAGAGGCTAGTGTAGCTCGTGCTTTTTTCAGTGTCTCT [T/C] GGACAGTAGCTTGGACCTGGCTATGATATGCAGTGGCTGATTCCAAGAAATCCCATAGG
5758 CaTSNP8768 AGAATCGAGTTTGAATCAAAGAGAGACTAGTGGTTGGATTTCGCGGTTGTTGAATGTTTG [T/C] ACTGAAGATGCTAAAGCTGTTTTACTGTCTGTTACTGTTAGTTTTATTGTTTAAATCGTTT
5759 CaTSNP8769 CTCCTTTGTTCTATGTACCGCTCTCTGTCTGGTGAAGATGATCATATAATGAGCAGG [C/T] TTGTCTCTCTGTCTCAATTTGCTCCCATCGTTTACTTCTCATCATCATTAGGATCTTTA
5760 CaTSNP8770 TATGCTTCCCGACAAATTCGGTAACACAGCATTACACGTGGCAACCAGGAAAAAGCGAGT [T/A] GAGATAGTGAATGAGTTGTTACTTCTGCCAGACACCAACGTAAATGCATTAAACCGGAGAC
5761 CaTSNP8771 TTCTTCACATTGTAGTCATAGTAACCAAGGCAAAACCAGAAATGACAGCATTCTGTGGG [A/C] TTAGTCTTGGCCTTGGACGGAACACCAGATCTGTTTCACCTCATCATGATATTTACAT
5762 CaTSNP8772 ACGCATGAAGTAAAGTGCACCTGTCAATAGAGACAGCTTGTGACCTAAAGTTAAGGGACAA [C/T] GGCATCTTTATTATACTTCCAGGCATGTTTCTGGACGACTCCAAGAGTTTTTCACCGAG
5763 CaTSNP8773 GTCGCTGTCTCGATTAAATGAAGAGTGCATTGGGGAGGGAATGACACGAAGGGATCACGC [C/T] GATGTGTCCAACCAGCTCTATGCAAATTTAGCCATTGGAAAGGATGTCCAGGCAATGAAA
5764 CaTSNP8774 TAAAAATACAGCTTCTTTCTTATATCCATGCTTCAACTCTGCTCTAACAGCTGTAGCCA [C/T] AGTTCAGGGTTTTGAGGATCTTCTTTTCGACCCATTGTGAGAAGTGCACGAGCTTTACTC
5765 CaTSNP8775 GATGGAAAACTTAATAATATATTTCTTTACGTTGATGGCTCGGGGACCAGAAGTGGATCT [C/T] TCCGAAGTCACCGGAAAGAACAATGGATGCACAACCGATTAAAAGAGGAAGAGGAAGA
5766 CaTSNP8776 GACATTGAGAAGATCTATGCTTTGTAAGATAGTGATTGTGCGTTACCGCACAAATACAACA [T/C] TGGATGGTGGATGTGTATAGTATGGTCCGAAATAAGTTCCGATCCATTGTGGGCAACTTC
5767 CaTSNP8777 GTCAATTACATCAACAAAGCCAAAGGTGAATAGTAGCGACGATGAAGGGACTTCACTGTG [C/A] GCGGCTCCTATTATGCCTTCATCGGCGGTTGACTCTGCCCGCCTCAGATCTGACCGTCT
5768 CaTSNP8778 ACCTTCTACCACCTCTCCTCCACCACCGCCGCGCTGACTAAGAGCTGGGCCACCAAGC [T/C] GAAGAAGAAACCAATCCATCCTCAACCTCCGCCGAGAGCCCTGACTCCGTCGCTCGAC
5769 CaTSNP8779 CTATTATGTTAACCATCATAATTGTGATTGGCGGTATCATAAGGGATGACCATTTAACA [C/T] ATAAAGATCAGCAAACTCGTCGTCACGTCATCACCACCGGATTTTGAAGTCAATGTAAA
5770 CaTSNP8780 AATCACCATGCCTGAAATTTGGGAACATAAATGGTTTCTGAAGAATCTTCCCATGGACCT [C/A] ATGGATGAGAAGATAATGGGTAACCAATTTGAAGAGCCTGAGCAACCAATGCAGAGCATT
5771 CaTSNP8781 GCTTCTGGTTCTCTCCGCCATCGTGTATTAGCCGCCAATCTCTTTCAAAGAGACTAC [A/G] TCCTCTGTAATAACTTTGGCGAAAAATGCGGCAAGAACTCTGGTGCTTTGCGTGATCC
5772 CaTSNP8782 ATCAGGCACAGAAACACAAGCTTCCCATTTGTCAGTATGACTTGTCTTCACAAAATAGCC [A/G] TGCTCTGCAGCAAGTCCAAGCTTTTCACAAGAAGAAAACCAATTCAGTAAGAGTCTTTCTC
5773 CaTSNP8783 CTCAAAGTCAATCGAATTCAAAGATATTGTCAAGATTGGACGCACTCACACTCAAGATGC [T/A] ACACCTTTAACTCTGGGACAGGAGTTTAGTGGGTATACTACACAAGTGAAGTATGGTATT
5774 CaTSNP8784 CAGAGCGTTTATGACTAGAGTCAAATGCAGTAGGACTTAGAACAGACATAAAACCAGCAG [C/G] AGATGTTATAGGATCAGATAAGATCTTAGTCTTATTATCATCTTGAGAAACCTTGAAAGA
5775 CaTSNP8785 CTTATCATTCACAACCTTATTGGAATCCTTCCGAAGCAACTGGCCAACCTTCCCAATCT [G/C] CTGACCTTCAATTTATCTCACAAACCTTCGAGGTGAAGTGCCTGTGGTGGTTTTTC
5776 CaTSNP8786 AAAACCAACAATTTTCATATCCAGATGCCTTATTCTTATCAGTTTCAGCAATAACACCCAT [G/A] CCTTCTCCCCAGTACCAATGATCTCAACACCAATTTCTTCATATTCATGTACCAAGACC
5777 CaTSNP8787 TGTCTTCTCCTCCTCCTCCAACCTCGTTATTGCCACCATTTATATCACTTCCACCATCGC [C/T] AATGCCACCCACAACCAACAACCCCATCAACAGGATCTTCCAAGCACAACCACTTT
5778 CaTSNP8788 TTTGTTGGAGGAGAGAGTAGGAGGAGGAGATAAGGAGCAGTGTTAACCTGATGGTCGAC [A/G] TGGTGAACAGCGGTGGTAGGAAATGAGGATCGTGGATTTTCATGAGAAACGTGGTGGACG
5779 CaTSNP8789 CGAAATGCTGAAAAAGCAGGTTGCTAAAATTGACAAGGTGCTCAATTTTGAATTTGATGA [T/C] GCAATCCTTGAGGAGAGGATTACTGGACGCTGGATACACCCATCCAGTGGCAGAACCTAC
5780 CaTSNP8790 AAGGTTGAAAGAGTGAACAAAAATATCATCGAAACCTAATTTCCAAAATCACATAATCA [A/C] TCGAATCGAATTCATGGAGGGAATGTTATCTTCCAATGATCAACAATCATTGGTCTCTT
5781 CaTSNP8791 AAATATATGAGTTGTTCTTGGATTTGGCCCGTGTGAAATCACACGTGTATAATCTTCTGA [A/T] AGCTCCATTTCACTTGCAGAAAGACACCCCTTTGAATATCCATGAGTATTATTAAGGTT
5782 CaTSNP8792 TTTCAAGATAAACACCTCTGGTGTGGATCGCAGTTCTTGTAGCGTGTGTGAAATCAG [T/A] TATATCTGCTAAAGCATCATTTCCACCATAAGCCATCCACAAAGGCAATGATTTGGGTAT
5783 CaTSNP8793 CACAAAGCTCACCAGCTACATTTTCTTCAATTCATTATCCTTGTCTGCAAGAATCTTGA [C/T] CTGCACACCAGGAAATGGTTTGGCAACAGTGCCTGCTTTGCGCTGACCTTTCAACGGATT
5784 CaTSNP8794 GGAGTTCGAACAGAATGAACAAAATAGACTTGTACAAAAGCTTCAAAAAACTATTTCT [T/A] GAAGTTTTTACAAAAGTGGAACTAAGACATAGACTAACGGAGATGACGTTTCAATGGTAT
5785 CaTSNP8795 ATTCAAATTCAGTGACAAGTGTGATATATATAGTTTTGGGGTTATGCTTGGTGTGTTGGT [A/G] ATAGGGAAGCTTCTTCTGATGAATTTTTTCAGAATACAGATGAGATGAGTTGGTTAAG
5786 CaTSNP8796 TTCATCTGGCCAATGGTATCACACCAATTTTCTGAACCAACCAGTCAATTTGCTCAGCA [T/C] GGCTTCTCAGCTGCAACCAGTCAACCTGCACAAAACCTTCCAGTCCGTATGCACAGCAA

5787 CaTSNP8797 GGTCTCTCAGTAGCCGTGAGAGTAGAGTTCAACAAATGAACATATTGCTTCAGCTGCTC [A/G] TTGCTCTTCTTCTGTCCATATCGAATTTCTAATTTTCTGGACTGGTAGTCTGTACAATTT
5788 CaTSNP8798 CACTTATACTTTGTCACTGCTTCTGTGATAAGATTGTACTAAAGAAGCCAATTAGTGTCA [A/G] CATTGATCTCACAATAGTTGGTTCTGTTATATGGGTTGGGCGCTCCTCAATTGAAATTC
5789 CaTSNP8799 TACCGGAGGCTCCCAAACCTCTACCAGCGTCTTCTGAAATCTCTGGTACTGGTCCGA [T/C] GTCACCGTCGACGTTTCACTGGGAGCTTTCTCAGGCTTTCCGGTTAATTGACCGTGACAAC
5790 CaTSNP8800 TAATAAGGCTGCACAGTCTTTAACAGATGCCATGATTCCAACCACTCAGAAGAAAAGTGC [T/C] TTGAATCGGCTGGTTAAGGATAATGTCGCACTAATAGTTGTTTTAGAAAGCAAAAGTTAAT
5791 CaTSNP8801 TACGGGCATAAAACAATCCTACATTTCTTTTACACTTATTACTCATCTCATATGGCTTCG [C/A] ATCACATCTCAGCTACAAGCCGTGCAGGGGCAACTAATGATGCTATATACAAGGAATTTGT
5792 CaTSNP8802 AATCAAACGATCATTGTTCCGGTATTCTGAGTTTGTGTTTTTGAATAGGCCAAGGTGAGAC [C/T] GAGACATTCTTGCTATCGTCAGACGCGTCTTGACACAAATGAGAAGGACAACCTAGAATGA
5793 CaTSNP8803 GGCTCTTTATTTTATTTATGCTTCGAGTCTTGAAGAGGATGAAGAGTTCAGGATTGTCTCT [C/T] TGAAGCATCAACTTGAATCATGGATTGTAGAAAAGTCTCCAGTTATTTTCTTTATATGA
5794 CaTSNP8804 CAATGAGCAAGGTTCAAACATGATTGGAGATGGAATTCAACTGTTTGCTTCAACAATATCT [G/T] TATTACTCACGTGCTGTCTCTGCTGCTGATCTATACAACTCAACATCATATTCACTGCT
5795 CaTSNP8805 TCTGAGACCCGTTGCAAGATCCGTTGTAGGTTTGTACCCGAAATCTTTGTAAGCCAATGT [T/C] ACATTGCGATGCGTGTATGGAACGTCACCGTTTCGCGCATCTTAATGATGTGTTTCTTC
5796 CaTSNP8806 AGGAAGTGCCTTGGTGCTGAAATGATCGGAACCTTTGTACTTGTGTACACAGTGTCTC [T/C] GCCACAGACCCAAAGAGAAACGCACGTCGATTCGATGTGCTGTTTGGCTCCTTTGCCA
5797 CaTSNP8807 TTCAAAGACAAAGAAAAAGGAAGAGATCACAAGAAGTGATAGTGAACGCAATAAGAGA [A/G] GCAGCTGAAAAGTACACTTCAGTTTACGTGTTTTCTTTTGAACATGCGGAATCAGAAA
5798 CaTSNP8808 AAGGAAGATCCCATACGTAACAGACGCCAGTTAGGGTTCTTCGCATTGCAATCGAAACA [C/T] GACTTGTGTTTCGGACTTGGACTGGAGCTTTTTGAAAACGGTGGTCTTGTGAGTGAAGCTA
5799 CaTSNP8809 AATGTAATGCAGTATTTAAAGTAGCTTGACTATGTTGAATGAAGATTTGAGCTGGCTGTG [G/T] ATACACAGTTATGAGACTTGAATTGACATCAAATTTCTGCTAGCTTACTGAGAAGCTGAT
5800 CaTSNP8810 CTGACGATTGAGGGTAGTGGGGTCACTGTCTGTGACCAAAAGAGATCCAAGAGATTTGTGTA [A/T] GGACAAATTTTCGGGTCAAATTTGAACCCGAACCACTTCCACGTTGGTGGATCCGGTG
5801 CaTSNP8811 GAAAAAGGTTAGAAGCTTGGAGCAGATGAATGGAATCTCTACTTGAACCTGAAAAGTG [T/C] GTGATCCATCATCCATCATTTATTTCCACGATGAAGGAGAGGGAATCATTGGCGAAC
5802 CaTSNP8812 AGCTTTCGTTTTTGGCCATGGCGGTGATGGAATCGGAGCTAGGGTTAGGGTTTGGAAATG [G/T] AGTGAGAAAGGGAAGAAAATGGTAGAGATAATGTGAAGTGAAGAAAAGTGAATTGCAATT
5803 CaTSNP8813 GACCACCATCTTTGATAGTTCAAAACCCCATCGAACGTATAAGTATCTGAGGGCTTGGGA [A/T] CGAGATGCCAGTACTGGAATTACATTCAGTCTTGTCCCATTTTGACAATATATAGGATGG
5804 CaTSNP8814 TTATGGGAAACAATTCGAAGATCATGGAATGTCAAAGCATTTTCTGAAACTACGTTATCT [G/T] TTGCAAAAGCATGGATCTGATCCAGGTTGAACATCTCAGGCTTGGGTAGAGGAAAGGGGA
5805 CaTSNP8815 GGCAGGTCTTATAAAGGCTTGGTTCAGAGAACTTCCAACCGGGATACTGGACCCCTTTTC [G/A] CCAGAGCAAGTAATGCAGTCCCAGTCAGAAGAAGAATGTGCTCAGCTTGTGAGGCTTCTT
5806 CaTSNP8816 CTACAACTTCAATGGCTTTGAATAATTCACTCTGAATATTATTATTGAAAGAGGTGTCAT [T/C] TATGATTAGGTTCCGGTTTCTGATTCTAGATTAGGATTGGGAGGATCCTCTCTGTAATT
5807 CaTSNP8817 GAAGGAAAATAATATTTTGGACATGAAATTTGGACTCACCAAAAGTCTAGTGAAGACATGGC [A/G] TCTCCTAGAATGAAGAATATGGAGAAAAGAAAGGTTGTGATGATGGAGTATGATGATGAG
5808 CaTSNP8818 ACCGAATTCAGATCGGATTCATTGGGCATCCGTTGAATGCGCAACCCCACTAATCCGAG [C/T] TCTTGCATAACAGGATGCACGCAAGATGGAATGAGGCCAAATCTTCCCGCAGGCCAGC
5809 CaTSNP8819 GATAATTGGAACAGCAGTGAAAAAGTGGGTCCAATTTGGGGTCCAAGAAAGGGTT [G/T] GGTGTAAGGCTGGAATGATCATGATGGTGAAGTTAAAGAAAATGTGGGATACAATTGCG
5810 CaTSNP8820 GCTTTTCGAATTCAGGAAGCCAGCAGCCTTCTTTTCTTCTTATTCTTCTATCTTCAT [T/C] GCGTTCCTCCGTAGCCAAACTTCTACCGTTCTCATTAGTGACAGTTTGTAGTTTCTCT
5811 CaTSNP8821 CGCCGTGTCGAAAGTCCGAGCCAAACGCGGCTCTTCTTTCCCGATCTTAATCTCGGC [A/G] GCGTATCTTCCCATGGCCCTTCTCTGACTCCTCGAAAATGAACCTCTTTAACGACGCCG
5812 CaTSNP8822 ATCTGCTAATCTCAAGGAGAAACATGCCAAAGAACTGTCTGCATTAGGCTATAGCAGTGG [C/T] AACGAAATGAAAAGAGCAATTTGGACAATTTGGTGAAGGCCATAGCTGGAGTATCTGTT
5813 CaTSNP8823 AAACCTACAAAACCTGGCCACTTCAAAGACTCGGATTCAAAAAGAGCAAGCCAGCATC [T/C] GGTTTACCCCTCCTAATGTATTCAATCCTTGTGCTTCTGCATTTCAAGGAACTGTAACCTG
5814 CaTSNP8824 TCGAACAGAAGCAGGAGGTGAAGGTGTACCGTCGGACTTTTTCTCAGAAGGTAATGTTTC [A/G] GTCTTTGCAGTCGGGCTCTCCAGTTGAAGAACCGGCTCTCTATAGACTCAAATGAGTT
5815 CaTSNP8825 TTCTGGTATGAGTCTCGAGCATCCATCTTCTTCTCTCTTTGCCACCATTAAAAGTGT [C/T] GACGACCACTGCGGGTTATGGCTCCCCGGCAACCTATTCCAAATGTTTTTCAACAACAAT
5816 CaTSNP8826 GCTTTTCACATGTAGCCACCATTTCATATCTGGTAGCTTATCAGAATTTTTATTATCTGG [T/C] GCTGAACTGAATCAGCCTGAATTTGATCATTAAATGAATGCTAAGTTTCCCATCAGCT

5817 CaTSNP8827 CGGAAGCCTAGATGGTCTATCAAATATTAGAAAAGTATTGTGGTTGTAACGATGTATT [G/A] TTATTGTTTATATCTTGGCTTCTATTGAGTTGCAAATAGGAACGGGAATGGATGTAGCTT
5818 CaTSNP8828 AAGATTGAAAGTTTTAGTTGTTGTGGAAATGTGTGGCAATGAAGAAGCGGGCGTCTTAC [G/A] AGGAAAGAATTTCATGGTGAATTAGGTTAGGATAATTTCGATGATGTAGTTCCGATTCCACT
5819 CaTSNP8829 GCTCATTTTTCCACGGAACATTGCAGATGCTGTTAAGTATCTGCCATGTCGTGGATCTGC [C/A] GCACACATCATGTTTCTTGGCTCCACATTTGTTGTGTGAGTTCTGGAATTTGTTAGGGAA
5820 CaTSNP8830 GAGATTTATAAAGTCAAACATGTGTTTCACTAATTTTGTCAATCAAGATAAAATCCATTTC [T/C] ACACAAAGCGATCATAGTTTAACCATTGAGGCTTTGGATGAAGAAGGTAGCCCTATTCTA
5821 CaTSNP8831 AGAAGAAACACCGTTTACATCGATAACTCAGCTTGTTCATCATGGAATGATTTTTGTGCC [G/A] ATTGGGTACACATTTGGGGATGGAATGTATGAGATGGAGAAGGTGAAAGGTGGATCGCCC
5822 CaTSNP8832 GAAAACAACAGAAAGGCTTGTGGCCTTGTATCAAAATGAACGCAGACAGGCCCTTTTGGCC [T/C] TCTCCAAGCTTAGTTCATGAAACTATTTCATTTGGGTCATCATGATGTACTTTCTTCATCCT
5823 CaTSNP8833 CAACACAATTGCAGAAGGGAAGTATCGAACAGCTGATCTTGGTGGCAGTTCAAAGACAAC [G/A] GAATTCACAAAAGCAATTTATGATCAACTTTGATATTTTTGCTTTGAAGTCGACAAGAAA
5824 CaTSNP8834 AGATTGTGCAATTGGATTTCGGCAAAAACGCCATAGGTGGAAGAGATGGTAAAAATTACGT [G/A] GTAAACGACGACAGCGACAACGACGACGAGTGAACCCGAAGCCGGGTACACTCCGTTACGCC
5825 CaTSNP8835 AATGATGTTAGGGTTCACGTTTCATGAAGAAAGGGAATGAGGGAGGAATATTGGTACGGAA [C/G] ACGGTACTTTTTGTATTTCTCCATTCGTGTTTTGAAGAAATTTATCTGGCTTCTGGAACCAG
5826 CaTSNP8836 CCCTCCTGCAGAAAGCGGTACAATTGCTTGTATTCTCCTCCCCAGGATACAAGGTTCC [T/A] ATTAAGTGGCCACAGAGCAGGGAGGAGGTATGGAAGTAAATATACCACATACACCTT
5827 CaTSNP8837 AGAAAGGTAATCGTGATATACGACGAGCTCCAAGCTTTAGTGGTCCATTAATGCTTCCTA [A/C] CCGAGCTTCGGCAATAGTTTATCAGCTCCAATAAAATCCTCTGGAGGATTTAGAGATTC
5828 CaTSNP8838 GTCCTCTAAATATAACAACCTCTCTCTCTGATTGTTGAAGTTTLAGAGATTGGGATACC [A/G] GTCCACTTGCTCACAATTTAGCAATATCATTCCCAGTAACTTCTCTCTCAACATAGAC
5829 CaTSNP8839 ACAACAGCAACAATCAGGTGATTTGAAAATGAGAGCAGCCACACCTCCATGTTCCAAAGA [C/T] AATCCTTCATCAGATGTAATCCTTCTGTAGCCAAGGATTTGTTGAGAACTACCCGCTT
5830 CaTSNP8840 GCTTGTATAGAAAATGGATTAGAGTTGCATGATAAAGAGGAAATAGCGGAGGAGATTGCA [A/C] GGTGAGGAGTGCTGTTAGTGTGCTTACGGAGGCAAAGAAAACCTCGAAGGGTGTGCGG
5831 CaTSNP8841 GGCTACGACAGAAAGAATGGAATGCATTCTTTTGTCCAGCAGTGTGGTGAACACAGA [A/C] GGTGGCTGTTGATGTCCATGATTTGCTTGAATCCCGTAGCTTGTTCATTTGTGGATCTTC
5832 CaTSNP8842 TTTGAGATGCACTGCTTTGGAAGCTTGCATTCATCCCTTCTTCGATGAACGAGGACCC [A/G] AACACTCGCCTTCCCAATGGTCGCCCACTGCCTCCGCTGTTAATTTTAAACCTCAGGAA
5833 CaTSNP8843 ACAAGCAGAAATCCAGACTGTCCTGAATCTAGCATCATTTCAAAGGCTAGTAATGCATT [G/A] GAAGTTTTAAAGAAGTCTTGTATGCTGTTGATGCTCAATATCCTCAGGGAGCAAGTGAT
5834 CaTSNP8844 AGCTTGGTGTGGACCTTGCAGGTTCAATTTCTCCTATAGTTGGGGAGCTCAGTAACAAGTA [T/C] CCTCATGTCAACAATTTATAAGATTGACATTGATCAGGAAGCAATTCGAGACACGTTGAGC
5835 CaTSNP8845 TGCATAGCCGTCGTTGATGGGACAAAGAATGAAGATTTCTTGATTGATGCCATTTTTGT [G/T] GCCACATATAATGGAACCTGACACTGTACATCAATCCCACTCTCTTGTATTCAACATAG
5836 CaTSNP8846 CATCATCTGTTCCAAGTCATTCAGTTAGTGAATGATACAGAACAATTTCTGCTGATTCGG [T/C] CTTGTCTGAAGCATTTCCTCTACTGTGAAGACAACCTTCAACAACCATTGCAAAGGCTCC
5837 CaTSNP8847 TCACAAATTTAGGTTACAAGGGAGAAAAGTTTTGGCACTTTTGATTGATTCAGAATAGAGTTTC [T/A] GAGGTTTTGCTGTTGATATTCATCCTGGTGCTAAGATTGGAAGAGGGATTTTGTGGAT
5838 CaTSNP8848 TCCCCAAAACGTGTTGATCAGAGTACATATGCTGACTACTATTTCCGCATCACAACAG [C/T] GAGCACAAGACTGAGCTCAAAGAAAATTCAGCGAATGTGTGACAAGTCAATGATAAAG
5839 CaTSNP8849 ATACTCTCTATCCATAGACGGTCACAGCTATGTGGATGGTTAGTAGCGGAGGTCAG [C/T] GATTCTCAACAGTCACTCCAAATGTTGGTAAGCCAGACGTGGGAGGAAAAGCAAATCT
5840 CaTSNP8850 AATTCTGATGGCCCTTTTACTTCTGCGGCATGCACTCTCTGTAACAGATGGTGATAATC [T/C] GATGATGATCCGTCCAATTTTTTCTCTCTTTTCTTCTGCTTCGAGCTGCTGGATTTCTTTTA
5841 CaTSNP8851 CCATTGTTTCTTAAACCGAAACCACCAGGTTGTTGGGAATTCATCAACTTCTCTGTTTCAG [A/G] TCGCCCTCGACGTGCAATGGTTTTATTTCTGGGGTTGGAATCCTTAGCATACCTCATA
5842 CaTSNP8852 AAAAGCTGAGAAGGTCAAAGGACGAGACCCCGATCGATGGCGCAGAGACCCCTCGGTAA [C/T] CTTATGTTTCGTAACCTCGTAGGTTGCCCTGGTGTCTCTGTGATGACTACGATCAGATT
5843 CaTSNP8853 TTTTTGGTGGTGTGGGGTCCCATTTTGGAAATGATTTGTTTTGTGAATGCTTTGCTTC [G/T] GTTGAATCGTTCATAAGGGAGTTATTGGAGGTGGTGAAGTTGGGAAAACCTGAGGCTGA
5844 CaTSNP8854 CAGAGGCACATCTTTTAGCTCATACTTGATTGTCCTTATTGATCTCTAGTTCGCCTTCAC [T/C] GGTTTTGTGGGATGTGGGCTCTGGACCTTTTTATCATCACCTTTTGCATCTCCATTTGA
5845 CaTSNP8855 AACTCCACCCTGCTGCAGTATTTTGGAACTTTTAAACGAGGGGAAAGCTGAATGCCTT [T/C] GAATCATTAGAATGCTCGGTTGGTTGTTAACCAGAACAAGAAAATCTGTTGGAAAAT
5846 CaTSNP8856 ACATGAAAGTACAGATGGCTTATTGATTGAGAAGGATGAATGTCAGAGTCAAGATAGTTGG [G/A] ACAAGCTCAGAGACTGTTGGAGATGATGATTTGTCTGTCCACATTAGCTGAAGCCATTC

5847 CaTSNP8857 GGC GCAATCGATTTTCAACCATGAACCTGGCAAGGTGGATAGGGCAAAGTGGCAGAAGC [C/T] ACCTCTGATATTCTAAGTGCAATTGGTGTGTGATGAGAGTAAGGGCTTTGGCAAGTACGTT
5848 CaTSNP8858 ATA AACTTCCAACAGAAGCTGCAATTA AAAATGGGGCGTCTTCTATATCTTTTCATCTCTCAT [T/A] ATGTCAAAGAATCTTTAGAGCATTATCATAATAAATATCACGCTGCTTCACGTGCAAGC
5849 CaTSNP8859 TCTGGAACCTGGAACCATGGATTCCGTCAGATCCGGTCCGTTTGGTCAGATCTTCCGTCC [T/C] GATAACTTCGTTTTTCGGTCAATCCGGAGCCGGAATAAATGGGCGAAAGGTCAATTACACC
5850 CaTSNP8860 AATGGCGTTGAACCTAACACTACCAACCGTATCACATTTTCATCTCAACGAAGCTCCTAC [C/T] ATTTGGAACTTCTTCTCACTTGCTTCACACCACCTTACCTTTACCTTCTCTCAACCTC
5851 CaTSNP8861 GCGGAAAACAAGGCAAAGTCTTCTGTGGCCGATCCCAATGACACTGACAACAACAACGAC [A/G] ATGATAAAACAAGACCGATGCTGAGGAAATTAAGCAAAGTAACGTGGAAGGTGAAAATG
5852 CaTSNP8862 TCTAGAAGGTCTGAAAATCGAGGTGGTGTGTGTTGCGGCAGTTACGGTGGTGTGTTGCGGC [A/G] GTTACGGTGGTGTGTTGCGGCGGTTGAATGTTGATGCATGGTGTGTTGTTGTTG
5853 CaTSNP8863 TCCTATCGAGAGCCAGTTTCAATTTCCAAGCTGGCCGATCAGCTGAATGCTGAGATTGTCT [T/C] GGTACTGTTCAAATGCGAAGGAAGCCTGTCATTGGATTGGATACACTTACTTGTATGTT
5854 CaTSNP8864 TCAAGTCACCGTTGACCGCTTGCTACCGGTACCTTCTTTTATCAGTGTGTTTATCTCCT [C/T] CTTACACCCACCGATCAGATAGTGGAACCAATGCTCACTGCTGCAGGCATTTCCGGTTAT
5855 CaTSNP8865 GAGTCTAGCGCCTTACCGTGGACTTGGTATTGGAACAAAGCTGCTGAATCATGTCTTG [A/G] TCTCTGCTCCAAGCAAACATTTCTGAAGTTTACTTGCATGTGCAGACAAAACATGAAGA
5856 CaTSNP8866 TCCTACAAGCATGATTACCACGTAGGCATCGGTGTGATCTCGAAGCTCCTTCAACCATCT [C/T] TCCACGTTTTCAAATGTACAGTGCCTTGTAGTATCGTACACAAGCAGTGCACCAACGGCT
5857 CaTSNP8867 AAATACCCATTATGTTTCTCCAGCTGAATGGGTCTTGGAGCAAAGTATAACCAATGCCA [A/G] CACAAGGCATGTCTTCAAGTGTCCAAGAACCTGATAGGTGACTGGAGATGTCTTTCCAAT
5858 CaTSNP8868 AGCACCTGGTGGATTAATTGAAGGTGTAGCGGATTATGTGAGATTGAAAGCTAATTATGC [T/G] CCTAGTCAATGGA AAAAAAGCAGGGGAAGGTGATAAATGGGACCAAGGTATGAAGTTAA
5859 CaTSNP8869 ATTGCATGCTTGGATTGATTATGATTCAAATTCGAGGCGTTTGGAAAGTTAGGTTGAGTCG [A/T] TATGGTCATTGGAAGCCGGTCGATCCATTGCTCTGGCAAACAATTAATTTCTTTAATTTG
5860 CaTSNP8870 TTTGATGGTTGGACTTCTTCTCTTCTTCTGGAACATATTCTCATGAACAGTGGCATATCCA [A/T] GTCGCTTTTTTCCACAGGCCTTGCCCAATGTGAAGGAGATTTATCTTACGCGGTCCAG
5861 CaTSNP8871 TCTGGCCACAAGTTCGATGTACGGTGCACCTCCCTCTTCCATCTACCTAAGATCGGT [C/T] CTCACCCCTCATGCCTCCGCGCTGCCCTCCTCCGTTACACTATCATCACAATTCCACTC
5862 CaTSNP8873 TGCCACCTTTGCTGCCATAGGAGGAGTCTACATAGGTGTGGAACAGTTGGTGCAGAACTA [C/T] AGGAACAAGAGGGATCTTGTAAATGGCGCCGTTGGTGGATTTGTTGCTGGTGCACACTATT
5863 CaTSNP8875 GAAATTTCCCTAGGAGAGGAGAGCACAATAGTTAGTTCTAAAATCGCTGTGCTCCTCG [C/G] GTTGAAGGTTCTTCTCCCGCTAGTTTTGGATGGACAAGACATGACTTTAGTTTCAGTT
5864 CaTSNP8876 GATAATTCACACTTGTGCTTCCCTGCGAAAACAAGTTATCTACTGGGACCCGTAGCA [T/C] CTCATACAGTTTCGTGCGGTTTCCCAACTTGATCATAGCTATATGAACCCAGTGAATCTAT
5865 CaTSNP8877 ATACATGTTTCCACTATCTACTCCTGATGGCCGAGATTACCAGAGTTATGCCAGCAA [C/T] CCTTGAAAACCTTCGGATACTGCCAGGTTGTTGAGTGTAGAACTACTTTTGTACCAGAC
5866 CaTSNP8878 TGTGATGGCCGTGCTAAAGACACCATTGTGCTTTCAACAGGTGAAAATGTTGAACCGGC [G/A] GAACTGAAGAAGCTGCCATGAAGAGTAGCTTAATTCAACAAATTGTTGTTGTTGGTCAG
5867 CaTSNP8879 GATTTTGGAGTACCATCCGAAGATGTTAAAGGAACATCTAGAAGGAGCAGGCCAACAGG [A/G] TTCATGTATCCAAGTGTGTGGACCACTTCAAGAAGCAATTTGCATACCTTGAGGAGCAT
5868 CaTSNP8880 TCACATCGAGGTCAAGATTAATTATCAGGATTAAGCTTCAGTTCTCTGCTTCTTTATTG [G/T] ATTGATGTCTGGCTAAACTTGCTTCCAGTTCATTCAACTCATCCAAGTCCAATTCATCA
5869 CaTSNP8881 CCACCAGCGAGGTGATTCGAGTGGCGAATCGAAGTAAGGGTCGAGGTTGAATACATAGTG [A/G] AGAGAGGGTTCCTTGAAGGCACTGAACCATGATTTGCATACAAGCATCGCACCGCCAT
5870 CaTSNP8882 AGGAGGATTAAGTTTATCAGTTTCTTAGCATACTTTTGTTCATCGAATTTCCATTGCC [A/G] CTGTTGTAGCAGTCAATTATGATGTGCTTTGGAAGCAATTAGACCATTCTTATACCGA
5871 CaTSNP8883 ACCTAACATGTCCTTAGATCCATAAGCCCTATTATCAGCACCACCGTGAAATGAAATCAG [C/T] GGAGCACGCAAGTTATCACTGGTACCGAAGGGGCTAGCCTCTGGATCCCTGTGCTAAAG
5872 CaTSNP8884 ACTCGATCGATGACCTCTTCTTGGTGAGATGATCGTGTGTAAGACATGAAGCGAAGG [C/G] AACCATTCATGTTGGAATTTTGGAGTAGCTTGGAGTGGGACGCGAACATGGCGGAGTA
5873 CaTSNP8885 TGAGAGATCGCGATGCTTTAACCTGGAGGCCAAAATTACAGA AACTCCAAAAGTTGTTGGA [G/A] TCAATGCAGTCTGTAGAAGATCAGGTAATGCTCTTCCGGAAAAGAAAGTCTGCTTTAGAC
5874 CaTSNP8886 AGCTTATGAAGAAGTTATGCAAATGGTCTGCTTTAAGAGCATCTGGTGTGAATCTGG [A/C] TCTAAAATGGAGTTTATGGATCTAATTGCCACAATGGATTGTAGCAATGGAGGCTTGT
5875 CaTSNP8887 GGTGTAAGGCGCAACGGAAGACAATGAAGACCTTTGGGCGAGTGTGTTTGTGCTGTCAACTG [C/T] GTTAAAGAACAAGTCTGCTTTTTGAGCAGATGTAGCTGTCTTCTGTTGAATGGATCATA
5876 CaTSNP8888 ATCATCTCTTTCTCCAACCTAACTGCGCAAGCTGTTGCGGAATGTAAGTTCTGAGAGCT [G/T] CCATCACTTTTCATATCCATTAATCGATGAACCTGTAGATGTAAGTTGCTCCAAAAGATCC

5877 CaTSNP8889 CCTGAGGATGCGACCAAGGGGGACAGCAATGTCACCTCTGAAGACAAGGAGGAAAAGTTCC [G/T] TAGACAAGTCTTCTGAAGATACAAAGACAGAAGATGTGGGTAAGAAAACAGAAGACGAAG
5878 CaTSNP8890 AGGAAGGAGACTGTTGCAACTCCAACCATGAACCGTTCAAACCTTAGGGGCTTTCTGTCT [G/A] GAACATGATTCAACATATCAAAGTTGTTTACAGGTTTGGGCTCCACTTAGTCTACCTC
5879 CaTSNP8891 TGGAGATTTCCAGAAGGGTACTCCAGAAGAGCGCAATGTTTCGGTTTGGTGTAGGGAACA [T/C] GCGATGGGAGCGATCTGTAATGGTATTGCTCTTCATAGCCCTGGGTTTCATCCGTATTGT
5880 CaTSNP8892 GAGGAGGAGATCGTAATTCGGTGGATCGAACCTCCAAGTGAATTTCCACCGGAAGAAC [C/A] GCGCGATCGCGATCCAAGCTCAACCGCTTGAACGCAACTTCAAATGGTTCACACGGA
5881 CaTSNP8893 TGTTATTGAGTGGTACAAGACATATTTGAAACAGTCGCTCCTAAATGTCGAAGACTACT [C/T] GTTCGGGTATGGGTTGCAACACAGATATGAAGGATGCCAAGCACAGCCAGAATCTGTG
5882 CaTSNP8894 CAATGTGGTTGGAGAGTTAGAATCTCAAATGATAGCTTTGAAGCTGAGCTTGAAGGCCT [C/T] ACCGTCAAGAAAGGCAAGAACAGGCCTCCTAGATTGACACATCTAGAGACATCCATTACT
5883 CaTSNP8895 GGATTTTCCAGATGAGTATAAGAAAACCCATTTTAGCCTTTGGACTCTTCTTGTAGTGGTT [G/A] AGTTTGATTTTGTATTTGGTGCATTAGTAACAACCTTTGAGTGTCTTAATTTGAGGGAG
5884 CaTSNP8896 ATCTGCTCGTCATTGGATTGTTAGGAACACGAGGAGTGTGAACCGTACCGGGTATCTAAC [C/T] GGTTACAAACTAGTCTCGTGGTCAAATTTTACCTTTAGCTGGATCAGAGGCTAAGTTT
5885 CaTSNP8897 CCTGGATCGAATCGTTTGCATAGGAACAACCTTCCATCCATGCAATAGCAACATAGCTAAA [T/C] AAAGAACAAGCAGTCATGTGACACATGGTGAAGAAAATAGGGTATTTAAACCCATAATTG
5886 CaTSNP8898 TAACAAAGAGGACTATGAGAAGTTCTGGGATAACTTTGGCAAACACTTGAATTTGGGTTG [T/C] ATTGAAGACCGTGAAGATCACAACCGTATGCTCCATTGCTTCGGTTTTTCTCATCCCAA
5887 CaTSNP8899 AGTAGGCGACTAGAGGTATGGAGGTGAAAGGGTAGATAGTGTGTTTGCATAGGCAAATC [G/T] CTCCAGCCACTTCAGCTTCCCTTCCCTTGTAGCCATACCATAAAGGGCAATGATGACTGAA
5888 CaTSNP8900 CTACACAAGCTGCTGATCGCATACATCAAGTATTGAGAATGCAGTCCCTTCAAAGGAAGC [G/A] GTTAACTCAGTATGAGGATGACGAGTTTGGTTTGTGATGACGCGGCTCTTCCCTTCT
5889 CaTSNP8901 TGCCTCGAGGTCTCCAAGGTACAAAAATTTCCATCCCCTAAGACTTGCTCGAACAGCAAG [G/A] TCCATATCCTCAACTGTTGTTCTGTCTTTCCACCTCCTGCTTCGTCGATTGCAGCAATT
5890 CaTSNP8902 GAGAATTGTATCTAACGGATTTGAGTCCGATGAGTTTGAATCACACGGTTCAACCTGGCA [G/A] CTGAGATGCCACCGGAAGGCTCTGCGGGATGGTGGTTGACGGCGAAATTTGAGGAGACCG
5891 CaTSNP8903 AGAAGAAGGAGCTGAACCTGGGCCCTTCTGTTTTATTTCTTTGGATGTAGGAACCGTCAAGT [A/G] GACTATATCTATGAAGACGAATTTGAACCAATTCGTTAATGGTGGCGCACTTTCTGAGCTC
5892 CaTSNP8905 TTGCACATGAAACCAAGTGTCTTCTTCCCTTGGTGTGAAAGTAAATGTGGTTCTCACTAT [G/T] TGTCAAATGCTGAAAAATCCCACTATTAGAGTTCCATCGGACTTTATGGCAGGAATTAC
5893 CaTSNP8906 TGCTAGGATTAATGGTGTAAAGAGGTTTTTCTATGCCTCTAGTGTGTTATCTATCCTGA [G/A] TTTAAACAGTTGGAAACAAATGTGAGCTTGAAGGAGGCTGATGCCTGGCTGTGAGCCA
5894 CaTSNP8907 CAACAGGAATGTCTTTTTGTGAGTGCTCTCAGGACTCATCCAGACAACCTTATCAACTG [G/C] TTCTTTATCTCTAGTCCAACCTTGTGCTTGTGTTCAACCTGGAGAAGTGTACCCTTACT
5895 CaTSNP8908 AGTTCATCAGAGTCCAGGTAGCCAAGTGAAGCTTCAATTTTGTGGTCTTACAGATCCTTC [G/A] AGATGCAAAACACCACTCAACCTGTGACATTCCCATCTTGGTCTTCTCTACTTCTCTTT
5896 CaTSNP8909 TACGACTGCCGACGAGGATGCAAGAAGAAAGCTCGTCTTGTAGTGTGATCTGGTTC [G/A] AAGACTGACCTGCAGAGGAAGATAAAAGGAAAGCGAGAGCCTTAGGTTTTCAAATTC
5897 CaTSNP8910 AAGATCAAGCTTCTGAGGAAAAGTGTCCATGTGCCTCAAGTCACTTACTTAATCCCATT [A/T] CGGTTAACCTTGTGGAGTAGCACGGGCAATCCCTCTCTTGGTGGTGCATGAAAGAT
5898 CaTSNP8911 TAGGCAAATGAGTTTCCCAAGAATTTTGGCAGCAAGCAGATCAAAATCCAGCAGACGAGT [T/C] CGTTGTTCTTGTTTCCGAATTACAGGAAACCAAGTATGCTCCAGTGGTGTGTAAGTCA
5899 CaTSNP8912 TGAGAAGGGTTATGAAAAAGATCCTGCTGTTGTGGCTAAAGAAGCAATTCAGGAAGCTTC [G/A] CGGAATGGTTCAGATGTGGTTCTAGTTGATACAGCTGGTTCGATGACAGCAATGAGCCA
5900 CaTSNP8913 ACACGAAGCTAGCAAAAAGAAGAAAGCAAGCCAAATTTCTTAAAGAGATTGTGCTACG [A/C] GAAAAGAAAATAACTGACAAAAGCAACAACTTGACAAATATCAACCTGAGCTTCTCAAG
5901 CaTSNP8914 TTTAGTCCTACCACCATTAATAGTGGACGTGGAGCTGAATTTGAGGGTGTGTTATTGCT [T/C] TGTTCCATTTGTTGATAACTAGAACAGACAAGGTCCTGCTTTCGCGAAGCATTTTACC
5902 CaTSNP8915 TCTTCGCGCCGGATTTGATCCACAAGGTGTATCTTTAATGGAAATGAAAGATCTTGA [T/G] GATCTGGTTTTGGTGCCTAAGCAGGCTGTTTGTCAACATTGACAGTGAAGTTGACTTG
5903 CaTSNP8916 ACACAAAATCATAACTTCTAAGGCTGAAGCATGGATTCAAAGAAAACACTATGTATGGCC [A/T] TGGAAAGTAAATGATAGGGAAGGATCCGAGTCAAAGAACGTTCTGTTTCTTGGCCTTGG
5904 CaTSNP8917 TGAGTTGAAGATAAGTGTGTTTAAAGTACTAGATTGAAATAGGGCCATCAAGCGCAAAGAT [G/A] GATTTCTCTTTGACTGAAGAAACCATATCACCATAAACTGATACAGTGAATGTCTCAAG
5905 CaTSNP8918 ATAATGTCCGCGAAAAGCGGACCGATGTTGATAATATCGAGTGAACCGGTTTGAATGA [A/G] TGGGTCCCACTTATGAAGTGGTAAAGCTCGGTAATCGTGAAGTGTGAATGTGAGAGGTTTGA
5906 CaTSNP8919 AGCTCATTGAGTGCCTTTGTATCCTTTTCACTCGCTGCGGAGTGTACTGGCTGGTTGA [T/C] GATGGTGAAGTAAACAGGTTGACTTGGTGAAGTAAACCGTACTTGGACTAAATTCGGGTGAA

5907 CaTSNP8920 ATTTATGACAGTGAAGATGTTAAAAGTGCTACTACATCTACAGCAGCATTGAGCAAGTT [C/G] AAAGTTTAGGAAATTCAGGAAATGATTTTAAAGGTACAAAAGTTATGGAAGAAGAACCAC
5908 CaTSNP8922 CCCCATTCAATTGTATTCAACTCTTTTCAGCTCTATGGAACCTCTAGCTACTGGATGCA [A/G] TTATTTTTCTCAGAGTCAAAATGGAGCAACACTTCTGAATTCATCACTTCAAGCAACCGCT
5909 CaTSNP8923 TGTTGCATCCAAAATCCACTTGGACCATTATTGCGTCATGGTTGAAACATGACCTAAATC [A/G] TGGCTTATTGCGTCATGGTTGAAACATGACCTAAATCATGGCTCACTCTTTGCTCTTCT
5910 CaTSNP8924 TGGAAATCTTATTATGGAAGTGATTACAGGCAGGAATCCAGTCGATTATTGCCGCTCTCC [A/C] GAAGAGGTGAATTTAGTTGAGTGGCTCAAGAAGATGGTTGGTAACAGAAATCCAGAGGGA
5911 CaTSNP8925 TCAAGCTATGTATTACCAGAGAGAAAATCCAAGCTTTCATCTACAAAGTGTGGACGACGT [G/A] ATGAAAATTTGGGAGAGGCAAGAAACCCACCTCCAGTATCCAGACCTGTCAGAGGCTTT
5912 CaTSNP8926 AACAAATGCAACCAATGCCAAATATGATAAGCCTTCAACAGCACCTAATAACCCAAAAGG [C/A] CCATTAGGAAGACCAGAACCTGTTTGTAGTTTGGTGTATAAAGACCAACCTACAATTCCA
5913 CaTSNP8927 CGCATCAACCTTTCTAGAAATCCTAATGGACCGTCTCCAAAACACCAACGCCGCCCGCT [A/C] GCTCTCAAATGCTTAATCGTCGTTCCACCACATCATCAACCACGGAAGTTTCATCTCCAA
5914 CaTSNP8928 GACATGTAGTGGGGTGGGGCCATTGGAGTAAGGTAAGTACTCTTTCATTCCTCCCCTTATAAT [A/G] TCACACTTGAGTTCTAAGAAACCACTCATTTCTATTGCACCGCAGAATGAGATTCGCCA
5915 CaTSNP8929 CTGATTAGTCAAAC TAGCAGCAATACCAGCCTTACAAATTTCCATCAAATCTTCTCTATT [G/A] TAAGCAATTCACC GCCCGGTACCACCGAGCGTAAACGCCGGT CGAACAATCAAAGGAAAC
5916 CaTSNP8930 TTCAGCAAAATCCCCTTTCATCATTATCCACCTCTTCTCTCTCCTCATCATCATCTCATC [A/G] TCGTCTCATCTCTCATCAAACCTCAACTACATCTCTTTCATCATCACTATCCTCAATCTCA
5917 CaTSNP8931 TGCCAGTTCTTATCATTCATATTCCAAAAGTCTCCATATGATAATCAATATGAGGATCG [C/G] CGCTATGGAAAGCAAGCAGCGGTTCTGACGAGAAAGCCTGGTTCCAGATAAAGTCCGTTAT
5918 CaTSNP8932 TATTAGCTTAACTGTGGAGTCACCTGTGCCAACACCGACGGAAAAATTGTCCTTGAGGC [G/T] TTGATTTTGACATCTGCGGTGGTTTCATCTCTTACTGGTATGCCTTTTGGGCTTCCAAG
5919 CaTSNP8933 TTGCCCTGAGTTTGAAGAGCATTATTTTGTGAAGTGTGGAAGACTGTGATTTG [G/A] CATTAGGAATCCAGTATTCTTGTCTTGGACCTGAAGAAGAAGAAGAACTGGTGGAG
5920 CaTSNP8934 GCGGCAGAGTGACCTTCAATAACAGACACTATGACTTGCCCTCTTGGTCCATAAGCATC [C/T] TACCTGATTGTAAACTGATGTATCAACACTGCAAGAGTGAGGTTTCAAATTCAAAA
5921 CaTSNP8935 TGGGAATTCCTTCATGAGCATCGATAATTAGTGTCTTTTACCAGCTCCAGAAGGACCACT [C/G] ATAACAACAGGTCTCTCAACATTGCCTATCACACCCTTACTCCATGCAACAACCTCAGTC
5922 CaTSNP8936 ACGGTGGTGGGCGATTACCGGCTTGATCTCTTCAACGAAACCGCCTTCGCAGTGAGG [A/G] CATACGATGATGGTGTGATCTGAAAGGTTAATGAAGCGGGTGCAGCTGTAGCACCAGTAC
5923 CaTSNP8937 TGTTCCCATAGCAGCCTTCATTTTTTCAGGGTCTTTGGAAAACAGGAAAGAAATCAGCACC [A/G] AGTTTGTCAATGGCCTCACTTCTCTTGTGGAGAGGTAATAATGACAGTAACCTTCAGC
5924 CaTSNP8938 AAATGGTGAAAATGAAGCTGAGAGTCTTACAATGGTGGAGCTTTACATCACATGGAAGC [T/G] TTGGAAGAGGTTCTTCTTATTAGGAGAGGCATCTCAAACCTTTTATAATGGCAAGTCCAAG
5925 CaTSNP8939 TGGGGCCAGCTCAGGCCTCAACCGTCTACTTATGCTGTTGATATCATTCCCCTGACGAAC [C/T] GCATGTAGCAGGAGGAAAGAAATTCATAGCCTCTATACCCATCTGAAATCTCCCATTCTTT
5926 CaTSNP8940 TAGCTCTGGCTCAAGAGGTGGATTTGGTAGAAGTATTCTCTTTCAGCTAAGAGCAACTC [T/C] TCCAGACGTTTCAACGATACATTTGCATTGACGACCTGAGTTATAATATTCGGAAGCATG
5927 CaTSNP8941 GGTGCAAACCCACGTCAATTCAGATCCCAGATTGGTTTTTGAATAGGAAGAAGGATTA [T/C] AAGGATGGAAAGTTCTCTCAAGTTGTTTCCAATTCACTTGACATGAAGTTGAGGGATGAT
5928 CaTSNP8942 ATACCTTGACAGCTATATCAGTACAATTGGAGTGGACTTTAAAATTCGCACTGTTGAGCA [A/G] GACGGGAAGACCATTAAACTTCAAATTTGGGACACTGCTGGTCAAGAAGCTTTCCGGACT
5929 CaTSNP8943 GAATCGAAAAGTTCGAGAAGACTATTCGTTATGCTTCAAGGAAAGCGTATCGAGAAACGAG [G/A] CCTAGAATTAAGGAAAGGTTTCGCAAAACGCACTGATATGAATGTGAATGTGAATCTGATC
5930 CaTSNP8944 TAAGTTGGGGATCTAGTCTGGGAGCCATGTGGTGCCTGTTCCGCTGCTGCACGAATT [T/C] GCCTATCAGGTGCAGTGGCTCTACTCTGCAGCAGTTGGCCAAAGCCAGGAGTGTCTC
5931 CaTSNP8945 GAGTGCATCGGAAACGTCTTTGTTGTTACTGGATTGAAAGATTAAAGTTGCAATGTTAGT [A/G] GCGGTTTGAATGACTTGTGTTTGTGCTGCTTGGATCTCAACCTCAAGAGCTTTGTACATG
5932 CaTSNP8946 CATGACTGCTACTCTGTTTCTTACGGTGGGACTATGGATTTTTGGAGGGTCTTAAATAT [C/T] GATGCTGTAACCTTCTGCCATTCTTGGATTAGCTGTACTCTCATCACAGGGTGTGTAACA
5933 CaTSNP8947 TGTTTACACGGTCGTAATAGTAACTGTACCTTCCCGGAGCCGTTAAACGCCGACAACCTC [C/A] GCGGGAAGTTGATCTTTTACGCTTCAACTTCCGGCGGGGTGATACAAGCTTAAACACC
5934 CaTSNP8948 CGGCATTCTTGATGTGGCTATCGTTCAACGGAGGAGCTTGGGAGCAGGTGGTAGCGG [T/C] GTTCTGTTGAGAACAATAATGGTGGCAAGTCATGGATCCGTGACAAAGCTGCTGACAAC
5935 CaTSNP8949 GGACTTAGACCGGTTGATCAGTAACAACAGACGAAGACGTGGAGAACATGATGGACGA [A/G] TACGACCGCTAGCAGAAATGACAACCCACGATCGGCTCGGCTCTCTCTCTTCT
5936 CaTSNP8950 TACACCTCACCAATCCCATAAAGGCGGCATAATAAGCAAATAAGGGAGTCCAATTCT [T/G] GCAGCAATAGGTGTTAAAACCTGTTGCCATTGACCACCATACAACTCCAAAACCTAGCACT

5937 CaTSNP8951 AAACCTCAGATAATGGTGTCTTGTGAGAAACAGTGAATATGCCAGGAAAATACTCTTGG [A/C] CAGTACTTTGGACTTGGTCCGAAACACGAGGAACAGCCACTGATATCCGGATCCTTTC
5938 CaTSNP8952 ACAGCTTGAAAAAGACTATGGCACATTGAAAGCTAGCTTTGATAAACTCAAAGATGACTA [T/C] GAACATCTTGTTCAGAGAAATGACAAGTTAAAAGAAGAGGTGAATTCTCTAAAGAATAAA
5939 CaTSNP8953 TCTTATCAAGGCTTTTGCAGTGAAAACCAATGATATGATGCTGGTAAATATACCTATCGTC [C/T] CTCATTAGAAGTGTAAATGCACTTCACAACCTTGATTAACAACAAGATGCTCAACAAGAA
5940 CaTSNP8954 TAGAGCACGCGTGACGCTAACTGACCATTCAAGTAACCATCATCAACAAATCCGCCAAG [T/C] GACTCAATTCTCTTCTTTCTTTGATGCATAAGGGCCTGTGATCTTTGGACATTTCTATA
5941 CaTSNP8955 TGAGAGGGCCGTGTGAATGATACTGCATTCCCTTGCTTCAATATATGTGATGGACTACTC [G/A] TTGCTGGTGGCGTGGACGAAGAAAAGCATGAGCTAGTTTTAGGCATCATTGATTTTATG
5942 CaTSNP8956 ATCAGCAATTTTTCTCTGCAAATCCATTGGCAATGTCGGGTATTGCTCACATAGGTCCCC [G/A] TCAATAACATCCCTTAACAGGAAAATAGGCAGATCTATAAGCCATGTGATCTCTCCACAC
5943 CaTSNP8957 GAGGAGGTGCTCGACGAGTCCCTCTATGATGCCTGGTGGTTCGTTTCGAGGCTTACAAA [C/T] ACATAGAAGATATCTTCTCAAGGTGGCAGCTCAAGTCCCTGATAGCGGCCCTTGTGTGA
5944 CaTSNP8958 ACCTGCCAGTCTCTAATGGGTGCATATCCAAATGCACCTAATCAATGGACTAATATGG [A/C] GCACAGCCTCAAACCTGGCCGGCGCCACACAAGCACAAGCACAACAATGGCCTGCTGGT
5945 CaTSNP8959 GGTGCTTGGGCCGCCGAAATTTCTTGTATCGTCCCAGCCTCTTACCCATGGCTGCC [A/G] GGTGTTGCTCTTGTTCAGGAGCAGAATGGCTGTTAAGATTCTTCATAACTCCTTCTCGA
5946 CaTSNP8960 TTTCCCACTCGTTTCTGTGCGCTTCTTCAACCTTTGCTGCATTGATTAAGATGAATC [A/G] GTGAAAATGCAGATGTTGGGTTCAATTTTATCACTTATGCATCCGGGTTTGGATTCTAT
5947 CaTSNP8961 AACCTTTGAAACCTTTGAAACCTTAGAAACAACAGGAGGTGCTGATGCTGCTGTTGATGA [C/T] GCAGCTGATGATGCTGCTGACCTTACTCTCAGATCCGGATTCTGCACTGCCTCTGGCCGA
5948 CaTSNP8962 TCATGGTGTAAATTTGGCTATTGAGAGTGTGGTGGATGAGAGTGAAGAAAATCTTCTGG [C/T] GGTCTTCATGGTGTCTTGTCTGCTTGTGAGATGGCAGTTGTTGGATGCAGAACCAG
5949 CaTSNP8963 GCTATTATTCTGCAGCAGACACCCATAGCAGAAACCAATCACCACAAACCAAAAACAC [A/G] TACATAATTCACACGGACAAATCCACCATGCCACAACTTTCAGTACCACCTTAACTGG
5950 CaTSNP8964 CACAGAAGAAGGATACAAGAACATGAAAAATCAGAACAACAACAATAACAAGTATTA [C/T] AGCTACAACAACAATGCTGCTGAAAAGGAAAAATACTACTTCAAAGTAAATGCTGTTAAT
5951 CaTSNP8965 CAAACTGAAGGGAATCGATTCTCCACCGTGCCACGTGGCAACAGTCCCTCTAATTTTCA [G/C] TCAGACACACACCCCTCAATCCCTCGCTGCTAGCTTCGATTCTCCAAAACCCAAATCAAC
5952 CaTSNP8966 GGATCTGCTGCAGTACACACCTTGGTGTGGTAGGAAGGAATTAAGCGAGCATCAAA [G/A] CTAGTGTGGAAGAAGCAAGCATAGCAAAGAAACCGGCATTAGAAACAACGAAGGCAAAG
5953 CaTSNP8967 CACGAGTGTCTATTTGTGGTATGAGATTCTTTGGGTCAAGCATTAGGAGGACACATG [A/C] GAAAACATAGAGCTGCAACAAATGAAGGCTTATCTTCTATGAAACAAATGATTGCGAAAA
5954 CaTSNP8968 CCTTTGTGTAGCTCTTCCCTCTTCAGGTGTTAAGTGAATGGATTGCTGCAAAAGCTGA [G/A] ACAAAATGTAACAGAAGCTGATTTCTTTTTTGGTGGTTTATCCAAACCTGGAATTAACAAC
5955 CaTSNP8969 TGATGCTATTGGCGTTTCATTTCCCATAAAAAATGGGTACCTTGTGGTTCGAAGAGA [A/C] GGAAAGATACTTGACGAGGAAGATGCATCAAACACAGATAATGATACCAATTCATATACA
5956 CaTSNP8970 TTCTTTCTTTTTGGAGAGCTGTGCTTCTGCCTCCTTTGGTGCCACAGAACTTCAGCA [T/G] GCATCTTAACTTCAGGTTCCGGTTCAACAGAGTCTCTGGTTCGGTTCATGGTCTTGT
5957 CaTSNP8971 ACAACTTATGAATGCTCAAAAGGTTGGTGGTGAATGGTGGAGCTAATGGTAAGAAAGG [C/T] GGTGCTGTCGGTGGTGGTGGTGGAGCTGTTCTGTTCAAGTTCATGGCTTGGGTGGTGG
5958 CaTSNP8972 AACTCCTTCTTCGGTAGTTTTCTCTGCTTCGGGAGCAGGGTCTTTCGATGAGGATCA [G/A] GTTATGGAATCGCGCATGCTATTGAGAATAGTGGCGCCACTTTTTGTGGTCTTTGCGT
5959 CaTSNP8973 AAGTAGCCAGATTTTCAGCTCCCTCACAGCAAATGGCAAATATATTGTTGCAGCAAGTGA [G/A] GATTCCCATGTATACATCTGAAAAAATGAAGCCGATTGACAGGCTAACAGGAGTAAAGGT
5960 CaTSNP8974 TATCATGGGTGAGGTGGCAGTGTGCACTCTGAGCCTCTGCACCTTGAATGCAATGACAT [C/G] AAACATGTGACTGAAGAAGATGTTTATCCACCAAAATCAAATCCAGAATGCTTGCTGGA
5961 CaTSNP8975 TGCTGACAATTGCAAAGTCTTGTCAATATTGAACAGCAGAGTCTGATATTGCTCAGGG [T/A] GTACATGGCCATCTACCAAAAAGACCTGAGGAAATTTGGTGTGGTACCAGGGTCCACATG
5962 CaTSNP8976 GCCGTCATTTCTTGTATCACAATTTTAGTAAATCCCTGGAAGAATCTCGATTGCTGAGC [G/A] CGCACACCACCGCGTTGACGTTCTGCTTATAGCAAGACGCGACAATCGAAAAACTGT
5963 CaTSNP8978 TCTATTGTTTCTTAACCAAGTACCTTGCGAAGCTCATTGGTCAACTTATTGCGACTTGAT [C/G] CTTCCAACCTGCTTAAAAGGGCGGCAAGACCTTGGAGTAGAGCTTGTAATCTAGATCTG
5964 CaTSNP8979 CATCCCGCGTGAACCATCACCGCTTCTTATTCCGACCCGACGAAAACAACGGCACACC [A/G] CCTATGCTTTCCAACGCCACCATCTTACTCCAACCTGGATCCGACCCCGCGCCATTGA
5965 CaTSNP8980 TTGGTTACGAGATAGATCCAGATCTGCGAGACGGTAAATACGAGAAATGAATCTGGAAT [A/G] GGCCCGCTTATTTTGTACCCTTAATAAGGCCCGGCTCAGCATTTGGAAGCCTGCCAAAG
5966 CaTSNP8981 TCCCATTGATTTAGGAGGAAGATTTGACTTAAATTTGCACGAACAATACCCTGTTACC [G/A] TGAGGCTTGTAACTTGCCTCATAGGCAGCGTAATGGGTTCCATTCTTCTTCACTTTG

5967 CaTSNP8982 TTCAACTACGAATAAAGTCAAGCTCCGTTTGGAGCAAAGTGAATATCTAGCTTCGTACC [T/C] ATATTTATTAATAAAAAGTCAGGATGCATCATCTTTGAGCTACAATATTTGTCATCGAGA
5968 CaTSNP8983 ATTTGCATGCTTCAATCAACTTTACAAAATGGATCCTGAAATATTTAATACATGGTGTA [C/T] ATACTTAAACGTGTACCCAACAGCGCACCTTTGGCTCCTGAAATTTCTGCAGCAGGCGAA
5969 CaTSNP8984 AGCAAAAGCTTGTACAGGGCGGTTTACCAATCTTGCAGACATATATCATATTTGCTGT [T/C] GAACCTGTGGCAAAGACGTATTGCTGCGCCAGTCAACATCAAGTGTGGACCTGAATGA
5970 CaTSNP8985 TACAACCTTCAATCCTTTTTGGCAGAAATGCTTGCACAAGCAAATGGAACCTGTTTCACT [T/C] ATCCCTCCATGGCAATTAATTCCAGCTGAAGGAAAAGTTGAGAAATGTTCAATAGAGGAT
5971 CaTSNP8986 GCTCAAAGCTCTCTTCAAGCTTTTCGTTTATTGGCACAGTGAAGATGATTCTCCAAC [T/C] AGAATCAATTCGAGCAGCAGAACCCTTTCTCTGTA [T/C] GCGCCGCAACTTTGGAGTGATTC
5972 CaTSNP8987 AACTCCGCGAGGTTCTAATTTCAACCACGCTGATTCTACTCCATGATGGGTTACGCGCC [G/T] AGACATTTCCAAATTCGGCGCGGAGATTGTTATTCATTCCAGTCCAATTCACGTGGACCG
5973 CaTSNP8988 GGAAAACTACTTAGGTTTCGAGGTGTTAAGGATAATCTAAAGCACATTGATGAGAGAAA [C/T] AAGATTGTTAGCAACTATTGGCTTGGTTTGAATGAGTTTGTCTGATTTGAGTCAACAAGAG
5974 CaTSNP8989 TCTCCCATCATTATCAACAGCTAATGTTTCGAGTGGATGAGGAGCAGGGAGAATCAGCC [G/A] CCACCCCTTCTTTCCATCAATAACGATGCTCTTGGATACGGTTGATTGCTGCTAGAACC
5975 CaTSNP8990 AACTGATTCTCAGCTACAAACAAATCTTGACTATGTGTGTAGTAGAGAAGGCATAGATTG [T/C] AAAGAAATTCACAAGGAGGTGCTTGTGTTTGAACCTAATAACAATAGCATCTCATGCTGCC
5976 CaTSNP8991 ATTGATATTACCAGCTGGTGAAGAACAAGTTTTCTCCATTTAGATTTGCAAATGAAG [C/A] ATCGTAACCTAAAGATGAAAGACCTTCAGCAACGATCTTTATCAAAATCGCTTTTCTTTT
5977 CaTSNP8992 GTAATTGAATGCACCATAGAAACCAGACTCTTGAACCTGCTGCAAAGACCATGAGTTC [T/C] TCCTCAGTTATCCATGATGGCAAACAGAGGAGTTGGCAAGAAATCAACAATCTCCATG
5978 CaTSNP8993 TCCTACTACATCACAACTGCCGCTTCTGATATAAATGAACCTATATTGTCAAGTCATAA [T/C] GATTCTACTACACCACAATCTACCCTGCAGATACAAGGCCAGAAATAAGAATGATTA
5979 CaTSNP8994 AACAGCCGTTGGATCAGGAACCTCATGACTACCCTTTTTATATTCAGCCGTCATTTTAC [A/C] TCACACCCTTCTCCAAATGGTGTACAGAGATATGTCCTTGAATACTTTGTAGTACTCA
5980 CaTSNP8995 AGGATACGCCCCATGTTGCGCGGAGGATATGCGCGAGTACCGTATGGCACCGAACTAGA [A/G] CCCGCGCGGCTCCTGGAGGAGGATAAGCCATGACTGGTTCTTGTGTTTCGCGCCGTTTTT
5981 CaTSNP8996 AATCCTCGCCATCGACAATGCCCATGTCTTCTCCTCGACAAAACCTCTCCGTTTC [C/A] ACTCTCAAAAACGTTCTTTCCCTCCAGCTCTTAGTTGACTACTTTGGCGCCAAAAAACTC
5982 CaTSNP8997 ACCCGCTCAACTGGGTACCAACTATCACCAATCGATAAATGCCTTGCCTTCCAATAG [C/T] AGTAAACCGTGTGGTTATAATGGACCTCCTTAACATTAAGAAATCTCCAGGCTGAAAA
5983 CaTSNP8998 TAGTAGGGAGGAGATGCACACAGTTGTTGTTGATATTCTGAAGGAAGTAGATTTCAATAC [C/T] GCAACTTTGTCCGATATTCTCCGACAACCTGGTACCCATTTGGCCTTGATTTAATGCAT
5984 CaTSNP8999 CAACATGACTGGCCTTACCAAATTTGAGCAACGGGCTGAAGATGTGTTGAAGAAAGTC [A/G] TCAGTGAACAATGTTATGCGGAATAAAAAGTTTAAATGCTTGCCTTAAGCCAAAACACT
5985 CaTSNP9000 TTGAAGAACGGACAGAGTCACATGAATGATCTCTTTGGGGTAATTTTCTGTTTATGCAG [C/G] CAAATCCTATTCTTTGGATGCAATCACAAAACCTCATGATTATGGCATTCACATATTA
5986 CaTSNP9001 TGCTGATTCCGTATTGGATACGGATCGTGCCCTTTTAGACTCTATGCGTGCTAAAATGA [C/T] GATGAACTTAAGAAGCTTGACGAAAAGATTGCTGATGCTGAGGAAAACCTTAGGTGAGAGT
5987 CaTSNP9002 GAACCTCGAGGGTCGAGTTCATCCATTAACAAGGGCTAATATCTAGCTTCTCCTCCTCT [C/T] GTTGTGCTATGCCCTTGCTGGCAGAGTTGACATTGACTTTGAGACTGAGCCCATGGG
5988 CaTSNP9003 GTAAAGCCGAATAAAACCAGCAGCATCAGCTTGATCATATATATCACTATCCTCAAATGA [C/T] GAAATATCTTGCCTATACAGGCTAAAGGGACTCTTCTGCCTGTTACAGTAACAGAACCT
5989 CaTSNP9004 GGCTCAACAGTGAAAATTTGGCTGCAGTGGTGCCATTTGAGATGTAGACTGTTGCCAATA [A/G] AGTGACATTTGTGTTTATGCCATGCTTCTTCAGTCAAATGTTGGTTTGTGTTTCTAG
5990 CaTSNP9005 GAGAGAATCTGATTTTAGTGGTCTACTTTCAATGGTGCATACCTTGAGAAAGCTGTTGC [G/A] TACAAGGCAAATTTTACAGGTGCTGATTTGAGTGATACATTGATGGATCGCATGGTCTT
5991 CaTSNP9006 CTACATTGATCTAAAGGAGTTACAGGAATTACACAAGACGGCGGACGTCACGGAGCT [C/T] CGAGAGGCGTTCCAGATGTACGATCTGGACAAGAACGGGTTGATTTCCGGCAAGGAGCTG
5992 CaTSNP9007 CCACCTATCTCAGATAGCAGATGCGGTGATTGTAGCTAGAAGTCTTTGGGCAACACTTGT [G/C] ATTCCTGACATCCGAGGAAGCCAACCTGGTGACAAGAGGAACTTTGAGGACATTTATGAT
5993 CaTSNP9008 TTGCTTGATTTTCCAGTTTTTCGGGTTTTCTGCTTAGGCTTCTGCTTTGGTGTGTAAC [G/A] TCACCGTCTTTGATTTCTTATCTTGAAGCATCTGTCTTCTTTGAATGTTTTTGTGT
5994 CaTSNP9009 TGACAACTCAGATAAAAAGATTCAAATATCCCCAGTCACAGGGATATAGCCCCAGCACC [T/G] CTCTGTTGCTAGAAAGTAGACCCGGTATAGAGTGACATAATATCAGGTGCATTTGAAACA
5995 CaTSNP9010 ATTGTAAGGGCATTGTTGATTATGCTAATGGTATACATATACAAGCAAACTAAATTC [A/C] TTGCCATCGAGTGGAGGGTAGGGCTCATTACCTAAACAAGGGCAATATTTCCCACTGGT
5996 CaTSNP9011 TCCTCTGTACAACATCAAAGCATACCTTCTGTCGTCGAGTCTTTGATTCTCTAGCCA [G/A] TTAAGGGCTGCAACATCTGGGCAAGCTTTTCTCAGTGTGTGTTGATCACTGGGATATG

5997 CaTSNP9012 TCACCAGCCAATCAAGGAAGCTGCTCTTGAAATATTCCTACAATGCTTTCTGTGACAC [C/T] GATTCTCCTATGAATTATGTTGATATTGGAATTCCTGCTAACAACAAGGGTAAGCATAGC
5998 CaTSNP9013 CTACCGGAAGGCCTTATGGTGGAACTTTTATTCAATCACAGCCACGCATGTCACCAACAC [C/G] TGTACATACATTCTCTGACGATGATGATGATGATTATAAATTACTACAGTGGATAA
5999 CaTSNP9014 TACCACCACCAGCGCTGCTCAAGGTGGCGCTATTGGTGTATCATGGGTACTCTCACC [C/T] GACGCACCTCCGCTTTTCCAATACCTCCACCTAACGCTGCTCTTAACCTCAAGCCATG
6000 CaTSNP9015 TACGGAAAGATCTATGAGGATGATCCACCACATGCAATAACCGTGAACCTTGACTTTTTAA [C/G] AAGAGCAGCATCAGTCTCAAATGCAGCAATATCAAACACGATTACCTTGCTCTAGTTTC
6001 CaTSNP9016 ACGTTCCAAAATCTTGCGTTGAACTCTAAAGAAGATTCATCAAAATCACCTTTGAGTCT [G/A] GAATGTTCAACGAATTTGGTGAATTTAACACTGAGATTAGAAGGGGGTTGTAAACAAGAG
6002 CaTSNP9017 ATCCATAAGCTTGTAATCTTATCCACCCACTGGTTATCGCCACGTTTGAGTGCAGGGTT [A/C] GCCATTAAGCTTCCAATGCCAATAGGGCCGAACCGGAACAATCGGAATGTCATCACCG
6003 CaTSNP9018 CCATGCCCGCTTCGTAATAAATGGGCCACAATAGCCCGATTACTTTCCGGTCGAACTGA [T/C] AACGCAATTA AAAACCACTGGAACCTCGACGCTGAAGCGGAAGTGTTCATCCATCTTCTCA
6004 CaTSNP9019 ATTCTTGATAACAGCATGGAAC TGACCGTGTCTAGATACCCATGAATTAACATTTGCAGG [G/A] TCGCTCTCTAAAATGTTGCTGCAGATTGTATCTCTGTCAACATTC AATATCTCAATCTTT
6005 CaTSNP9020 ACCAACTGCTTTCAAGCTTTTTACAGGTTGGCGTGGATGGCACTCTCAAGATCTTTCAT [C/T] GACTACTGCATATGGGGATGGGACAACCTACCAGAACCGTTCTCATGTACTATTCAAAT
6006 CaTSNP9021 GGGTAAGTACATGAAGAAAGCCAAAACAAAAGGTGAATTAACCTTTGGTTGATCCACCAC [T/C] ACTATCACTACCACCACAACACCACCATTATTGTGGTGTTCGAACTCGTGC AAAAC
6007 CaTSNP9022 TGGTCACCAGTCTTATCCTCATAAAATTCCTACTGGTAGAAGGAAAGAGATGCATACACT [A/G] AGGCAGACGGATGGATTATGTGGGTTTACAAAACGGTCCGAGAGTGAATTTGATTGTTTT
6008 CaTSNP9023 GACAGTTGAAGGAACCTTCTGAAC TACAATCCCTTCCGGCACCAACCTGGAGATATCCT [C/T] GTCCTTGCAAGGAAAGGTGTACCAAAATTAACAAGCCATCAATACGTGGTGACCACCTA
6009 CaTSNP9024 GCTGTTGTTACGGTGAACAAC TTTCAACAATATCGTCACATCGCCGACCTGGCTGGTCA [T/C] TAGGATGGACATGGGCGAAAAGGAGGTAATCTGGGGCATGGTGGGATCGCAGACCACTG
6010 CaTSNP9025 TTGAAAGGATCCTTGTCTGCGACAGGTACGGTTGGTGCACACCCTTATTTCTTGGAGTTG [A/C] TGTGCTTGTGCTTTGGCGCTGCAGGAAGCCGATTTCTGTTGGTTGATGGGGCCGTCGCC
6011 CaTSNP9026 TTTTATTGAAGGAAGAGGAGAAGCTGCAAAGTCTGATAAAAAATGTCGATGGTATTGACAC [G/A] AGATGCAAGATTGTCGATTTTCGGAAATGCGTGTGGGCTGATAAGAAGTTGCAGAAGAA
6012 CaTSNP9027 GTTGACAGAGTTTGCACCGGAGAAAATGGAACAGGTTGTGCAGATTATAAGGAAGAGGAA [T/C] GGGCATTTGGAACAGGATGGAGATGAGATAGAGCTAGATATTGAAGCTGTTGATACCGAG
6013 CaTSNP9028 CCTAAGACTCGGTGATGATCAAGGGAGTAGTCTGTTTACAAAACCTCAACTGGTTTGCATT [T/C] CAAGAAGACAGAATTGGTGTGCAAATGGTGAACAACATCATCTGACATGATGGATGAG
6014 CaTSNP9029 ATTTTGCCAATTTTGTGAAGCTTCATAACGTGTTTCGAAAATTCAGATGTGTGACTTTGA [C/T] TTCTCACGAGCTTCAAGGATTTCTTCGACTTGAGAAGTGGGTTTGGTCTTGAGCATTAAG
6015 CaTSNP9030 TACCACCCTTTTCGGTTGCAGCTGAACCACCACTCCGACATAACTCGAGCAATGCTGCAAC [C/T] GCGTCTCTTTCCCCCTCGGTGTTCCGCGAGCGCATCATTCCTATCAATCTGCTACTGCT
6016 CaTSNP9031 ATCTCACTAGAGCTGATAATTGAGCTGCCATTGCTTCTCTTACACCTTCAGATTCCGCC [G/A] GTTTTGGGATTCATTACCTCACCAGAGATGTCAGAAGATTGAGCTACTGACTGATTCT
6017 CaTSNP9032 AATTCTGAAGTGACCATGTTTATGTTGTGTTGGAAATCAGAATATGGATGGCAGAATGA [G/A] TAGAGTTTCCATCCGATTTTGGACCGTGTCTTGGAGTTAGTGTAGTATATAAATTT
6018 CaTSNP9033 TGTAATGAAGAGTGGGAAGTATACTTTGGGTTATAAACTGTTCTCAAATCTCTTAGAAG [C/T] TCAAAGGAAAATGATCATTATTGCCAACAACGTCCACCATTGAGGAAATCTGAAATT
6019 CaTSNP9034 TTTTGGTACCGCTTGATAATTTTCTTCTTTTTTATTACTTTCACGGTAGCATCGTTGGT [T/A] GTTGATTAACTGCTGGATCTGGCTTGTCCAGAGGTTTATCTTCAAACCTGTTAATTTCC
6020 CaTSNP9035 TTCATAATCACAACCATACTTTTTTCCAAAAGCTATTCTACAAAATAAGCCTATTTGTGAA [G/A] GACATCAATATTTCACTCAAGTTACACCTTTTTTCATCATCACAATATTGTGACAACTTT
6021 CaTSNP9036 GGATATCCTTTCCAACGGTGGAGTTGTCCAAGAGATGGCACAATATGCTAATGGACGAGA [C/T] ACTGGAATTTGTGTCTCCCTACTTTCGAGTGAATAGTGCAAATTC AAGCCAAAAGCAACATG
6022 CaTSNP9037 GATTCCTGCTCCAGCCTGTAGATGGGCAATCCATTCTCTGCGTTTGTTCACATCCTTGTA [C/T] GAGTACATTGTGTCAAAGCGAGTATTAGTGGGAAAACGATGGTCCCTCAGAGCAAGGGCA
6023 CaTSNP9038 GATTGGAAAGCAGGGGGCACTATAAAAAC TTTTCAAGATGCCACTGGTTGCAATATACG [C/G] ATCCTTGGTTCAGAACACCTGCCAATTTTTGCTCTACGGGATGATAGTATTGTTGAGATA
6024 CaTSNP9039 AAGCATTGTATATGAAGATGAAAAGTCTTAGCCTTTTCGGGACATCAGTCCACAGGCTCC [G/A] GTGCATGTTCTGGTCAATTCAAAATTCAGAGATGGATTAACAGA ACTTGGGAAGGCTGAT
6025 CaTSNP9040 GCCACAAGAAGAACTAGCTCAAATTTCCGTCACATCGAGTTATTTCGACCTAATTAACAAC [G/A] AGTTCAAGGAGTTAACTCGTTTCATCTCACCTCAATCTCACCACTCAACCCGTTTATCT
6026 CaTSNP9041 AAAAGAAACGGGCTTTGAGGTGTAAGAGAAGCGACGGTGA AACGACGGCAGCGGTGGA [G/A] AGGAGAGAGAAAAGCAAGAGGAAAATAAGGTAGAAGAATTGAATGATTAAAAGAGAGTC

6027 CaTSNP9042 AGGTCAGATGCATTCTAATGGGGTTTCAGAACCAGCACTTGGTTGTGAACAATGATGGGTA [C/T] GTGATGAATGGTGTATAAAATGGAGAGAACGGGGCGAAAAGTTTCAAGCGTGAAATGAGG
6028 CaTSNP9043 GCAAAGCAGCCTCCATGGACAAGCCACCTGAATTTCTACCTTGATCATTGCTGAATCCG [T/C] TGAGTTAAAAGGGCTGGGAGAAGCGGAAGATGTACCAGACACTTGAGAAACTTTACCTTT
6029 CaTSNP9044 ATCGGTTTCAAGGATACCAATGATGTCGTCACTTCAATATAAGATGTTTTGTACCATT [G/A] AACTCCACCTCAGTTCCTGCATACTTTGAATACACAACCTGTGCACCTGCCTTCACACTA
6030 CaTSNP9045 ATATGGTTTCTAATCCATGTGTTATTGGTGGTGTGAGTCGAAACTGGGAATTGATGGTGATG [C/T] AGTTGTCTTGAACAGTTCTGATAAGTCTGGTTCTGTCCGGGACCAGAGGCCATAGTTCT
6031 CaTSNP9046 GGGCAAGGATTTACATAATATGGAGATGCACTGTTTTACTATTGTGTTGGAACGATTAAG [C/T] GTGTGTTGGTTATGCGTTAGAGTTATGGTTCTGCGGATTTCAAAGAAGCTACAAAAC
6032 CaTSNP9047 CAACAGAACTTCCAAGGTTTCAATGGTGTGACAATGATTTCCAAGGAAGACATGGATGTGG [C/A] AGAGCCTGAAGTTACGAAGACAAAACCTTCTATGGATGATTTCTGAACTAGCTGAGAGTGG
6033 CaTSNP9048 GTCCCTGAATCGAGATTGGCGGTATACAAAGTGTGCTTAAAAGACATTTGGTGTCTGG [T/G] TCGTCCATCCTTGCAGGGTTCGACGATGCGATTGCCGATGGAGTTAATGTGCTTTGCTG
6034 CaTSNP9049 GGACCAGAGCCATATTGAATCGGGTAGTTTGTGCTCCAATGATTTGACCGTATGGTAC [A/G] TTTGTTGGTGTCTATGATGGACATGGAGGGCTGAGACATCAAGGTTTATCAATGATCAC
6035 CaTSNP9050 TACCCACACATCATTACAGAGACATGAAATCAAGCAATGTATTACTTGATGAAAAATTT [G/A] GAAGCTAGGTCTCTGATTTTGAATGGCTAGGCTTATGAGTGTATGGATACACATTTG
6036 CaTSNP9051 AGTGATGACAGATGGGAAGAGCAAAAATTTAGTGGCATATCATGAAGTTGGGCATGCCAT [A/T] TGTGGAACCTTGACTCCTGGCCATGATCCTGTACAAAAGGTAACCCCTTGTCCACGTGGG
6037 CaTSNP9052 GATCTTGGATCCATCAACACGATACCTCACACGCTTTCCAACAATCTCAGCAGGCAATAC [G/A] ACATCCTCAAGCATTGCTTCATGAACAGCAGTGTAGTACGGCTTCGGGACGCTGAGCA
6038 CaTSNP9053 ATTTGCTTGGGCATCGTTTCCATTACCATTGCTGCTGGGCACCATCTTCTGTTTCAAATTT [T/A] CCTTTGTGAAGACCACACTCCTTTGCTTTGGCATCCTCCCACCACCATTCTCCCTCTCTT
6039 CaTSNP9054 CACAAAATACCCTCTGTATTTTGTGTGATATGCATTTCTCGCAGACCCTGCTAACAAGCA [T/C] GCCTCAGCTCCCAAAAACCTAATCCATGAGAGAACGAAGAAGAGGACGGAGAAAAGTGGTG
6040 CaTSNP9055 TCTCAGCCTCTTTCATCACTTCTGACTCACAAGTAATTTGCACTAACAAGTACCATTAAA [T/C] TGTCTTCACAAGCTTTCTAGTCCGAGTTGGAGTATAGAGTCACTTGGGCATGGAGTTA
6041 CaTSNP9056 GGCCACGAACATGTGACACGTGCCGCTCGGCCGATGCGCGGTCTTTTGGCCGCGAGACT [C/T] GGCTTACTTATGTGCCGCGTGTGACGCGCGCTCCACGCGCCAAATCGTGTAGCCTCGAG
6042 CaTSNP9057 CAAAAGTCCGCTGCATACAACGGGAAAGTACATAGGTAGCCTTTCTCTCAGCAATCCA [A/G] AGTCTCTTCTCGCTTTCGTTAGTCTTTCTTGATGACCAAGTTAGTTGAAGGAGACGGAAT
6043 CaTSNP9058 GGATGCTTTTTTTAATTTTCTACTAGCATCTTCTGTGCTGTTGCTGGAGACTGTTTCATC [G/A] GCTATATCTGACCCTAAGCTTTCTTTTGTACGTTACATTTCTCTTTAGATTATTTTCACTA
6044 CaTSNP9059 TCCGAAAACCTACTCAGAGGTATATGAAGAATCTTCAAATGCGAGATCAAAGAAAAAG [T/C] ACCAACTACTGGTGCAAAATGTAAACGACGTAGTTTGTATCATGTAATGAACCTCATGT
6045 CaTSNP9060 TATCACCTTTGTAACAATGCCAGCGCCACCTTTTCTATAATGTATCTCTTTCAAAC [A/T] ATCAAGAACATCATCAACGGTGAATCCAACCGTTGAAACGCAGTTAATTTCCATGCAGC
6046 CaTSNP9061 GCGGGTCCCTGATTTCCAATTGGACTGTGGCACTGGTCTGCTTTGTTTTCTCTGTTTAC [G/A] TACGTATTGCGTTTTCTCTGTTGCTAACCGGTGCTGCACTGAACGATCAGCGGGACAA
6047 CaTSNP9062 TGGTGTGTTTACAAAGCTAAGGATAAGAAGACTGGAGAGATTGTAGCACTGAAGAAGGT [T/G] AAGATGAACATAGAGAGGGGGTTTTCCAATGTGAGCATTGAGAGAAATGAATATTCTC
6048 CaTSNP9063 CCAATCAACTACTGGTCTCTGTTGAGATGGTATAGAAGATGCCACTCCATCAGAGCCACT [G/A] TTATCACTTCTTCCAGATGTACTCAATTGACTTTCTCTTACAAGCTATATAAGCAATTGCA
6049 CaTSNP9064 AATCTATCACATCTAGTTATGTTCTCAAGAGGATATATTCTCAATGTTTCGACTGGTATTT [A/G] GATCTAGCATGCGAATTCATCCAAACCACTGGGAAAGAACATCCATTGTGCTCTGAC
6050 CaTSNP9065 TATCTTCATCTACTATTATTACCTTACTGGTAAAATGGAACCGAGCAAGTCTCTTGCAA [T/G] TTCTTGGATAGTTTTCTCCGGTGTCTTACAAGCATGCAATGGGCTCAACTGTGGGTATGG
6051 CaTSNP9066 AGCGAGTGAAGTATCTGTAGGATTAGCAAGGAAGTTGTGAAGGATGTGAATAGCTTCTTT [A/G] GTAGCGCTTTTCTCCGCTGATGGTACAGTGTAGAGAAAGGCGAATGAGAGTGTAGT
6052 CaTSNP9067 AGTTCATCTCTCAGTAAAGGATGTTAATGATTGGAATAGTGTATTTGCTAAAGGAAAACCT [A/G] GTAATAGACCATCAAAGAGGAAATATTGAGAAGATTTTCAATAACAATTATGTCAGGACA
6053 CaTSNP9068 TCTCTTGCCTGGTTCAACGAAAACCTGTGCGAAAAGGAGCTGCTGAATCGTGTGAAATGGC [C/A] ATCACAAGCTGCAATGTGTAACCAATGGTGAAGATGTTAAGGAGGGTACAATCTTATG
6054 CaTSNP9069 TGACATTAGCCCTTATATCAAAGTTCTTAATAAATTTATCATTCTCTGCATCTGTTACCT [G/T] TGGATTTGAAACAAGTCTTTGATTGTTTTCAGGCATAGGTTGGTCAATTCATCATATTCTT
6055 CaTSNP9070 CGTCCATGTCCAATGGCAGTAGCACAGCGTTGATGGTAGTGACACGTTACAGTAACAATA [T/C] TGTATTGCTTCTTCTGCTGATGTCATGTTCAAACCTTGTGTGAATGTAGCATTTCTTT
6056 CaTSNP9071 TTTCAAGGAGCTCAGCGTGTTCAGTGCCAGAATTTTTGGAACAGCGTGTGAGGCTTGGC [A/G] CATTGAGGTCAAGACAATATCTGCTTACATTGATTCTTTTCAAGATATGGTGCACCACCACA

6057 CaTSNP9072 AGTTTTTACGGTATTTGCAGAATCGTATTTTTCTTTTCAAATCAACTTCTGCAAAATCTT [G/C] AGTAGTGGTTGCAGAATTTTGCAAATATTGTTATGTGTTCTGATTCCCTAATTCAAAATCAA
6058 CaTSNP9073 TTATGGATATGAGGTACTGATTGAAAACCTCATGGACCCTGCACATGTTCCATATGCACA [C/T] TATGGAATAATGAACACTCCAAAACCAAAAGCTGATAGAGAAGGGGGAAGACCA
6059 CaTSNP9074 CAAGGGTGATGTTGTCATATTGCCCTGCTTTTGGAGCTGCAGTGGACGAGATGTTGACTTT [G/A] AGTGAGAAAAGTGTCAAATCGTTGATACTACTTGTCTTGGGTTTCAAAGGTATGGAAT
6060 CaTSNP9075 TCTTTTCTGCATTCTCATGAGTAACGGGCCAATTCGTTGGCGAATTGTGTACATTGTCCT [C/T] CCGTATTCGCGAGCTGGCCAAATTTCCGGTCCCAAAAACAGCACTAGTGGCAAGAACTTTA
6061 CaTSNP9076 TGAAGAAGTTGGTTGTCAAATTTCAACAAGACTTGTACCATGTGGTCTCATCCTTGGTAT [C/T] AAACAACCAAGTTAGAGATGATATTACCGGATAGAGCTTATGCCTTCTTTTACATACT
6062 CaTSNP9077 TCCACTTCCTCTCACTTCCATTTCCACTCTTGGAGCAATTAATCCAAACTACAGCTATAT [C/T] GAATCCTCCACTCCC GCCCTCGAAGCAACTCAAAGGTTCCCTCAAGATCCTAGTGCAGTT
6063 CaTSNP9078 ACGCGCTCAAGGTGCGTCTGCGGGTGTGGTGGTGAATAGGGTGCAGTGAATAATTTT [T/A] ATGACGTTTTTGTGCTTATCTGATAAGATCAGTATTGGAGGGGCTTTCTTCTCTTTGGT
6064 CaTSNP9079 ATCCCGAGGCGAAGGATGCTTGTGGCTTTTACTTGTACCATCTGTGGCCAGCGAACTAC [A/G] CGCGTATTAACCCCTCATGCTTACACTGATGGCACTGTTTTGCTTCAAGTCTGTGGGTGC
6065 CaTSNP9080 TATCAAACCTTGTGTAATATATGTAATTGAAATAACATAAGACTGCCATGATCGTATACAG [T/C] CCGATACGCTTAAACTCATTAGCTTCTTACAGGTCCTCTGGGCCATTAATTTCTTGT
6066 CaTSNP9081 GTCTTGTAGGTAATCGAAAATTCAGAAAATCACATTGTGACCTCCAGGAGCTTGACCACC [A/G] GACAAAACACTACCAATCTTCAGCTTTTGATTAGGTTGCACCGTGTCCGAACCACTCGGA
6067 CaTSNP9082 TTCAATACGCTCCTGGATCACAGGTTGCACCAGCTTAAGCCATTCATATACCTTTGTC [G/A] CCAGCACATTGGCCAAGGCTGATAGGACCATCCTTCAATCCATCAAGCTCATAGAGTACT
6068 CaTSNP9083 TTGTATTGTTCAAAGAAACAATATTTGAAAATAATCTACTCTTGTATTAGAAGCAAGTT [G/A] AAGTTCACCATACTCAACCTGAAGCTAACATCTTCAGAGCTTAACTCGACATCAACAC
6069 CaTSNP9084 TATCCCAATTATTGCACCCAAGTCCAATGTTAATTTCTTATTTCAATAAGAGACACTCA [G/A] AGGAATCAGAAAACCTTCTTACTCTGTTACTGTTCAAGGTGTGGTTGATTCCAAAGGAATT
6070 CaTSNP9085 TTCGGTTTTTGGAAATATTTCTTCCCTGCAAGATAGCAATGGATGCTTCTGGTCTGTCTAA [G/A] GGCTATGGTTTTTGTGCAATTTGAGAATGAAGAATCTGCCGAAAGTGAATTTGACAAGTTA
6071 CaTSNP9086 AGAGCGAGCTTACTATTGCGTGACTAAGGGAGTACCTTGTTCCTCTATGCCAAGGCACAG [C/T] AAACCTAAAAGAGTAGATCTATATTATTCGAGCTATTGTGTTGCTGCAAGTAAATCACGA
6072 CaTSNP9087 ATGTTTTTGTGATCATCATGCCTAAFTTCTTGTTCACTTTTCCCTTCATATGGCTCTTGC [C/T] ATCCATATTTTTTATTTGAAGGAAATGGAAAAGATTGATATGTTATGTGTGGAATTTGTT
6073 CaTSNP9088 GAGGTATTGCAGAACTTTTTTGTATAGAGAAGTATCCTCTGCTTTCAGAACTCACTCAC [C/T] GTTTCCAGGGTTTCAGAGAAAGATTGTTGGCAGATCCCAAATTTCTGCATAGATTAGCCA
6074 CaTSNP9089 GTACACGCTAGCAACTCCACCCTAGCTCCATCACGAAATGTTGCATGATAAATTGCTCG [C/T] CGAGCCAGTTTCAGAAAGCTTCTCAATTGACATGTATATTGTACCCGCTGTCCAAGACA
6075 CaTSNP9090 CATAATGTTGCTGCATATGGTGATACGAAGCTGGTGATGAAGGGAATTTCCCATGGAGC [A/G] TGTGATTATTTACTGAAACCTGTGAGAATCGAGGAGCTAAAGAACATTTGGCAGCATGTA
6076 CaTSNP9091 CTCAATCGGACTATGACGGTGGAGGAAATAAAAGGAGGAATGGAGGTGATGATAGGGAGC [A/C] GTTTGTGATTGATAAGGATGATACTGTTTTTTCGTTATTTGTGCCCGGCCGAAAGATTGG
6077 CaTSNP9092 ATCGAATAAATGTGACTGCAAGTAGTTAGGTACATTGTGACCAGCATGGCCATCAAATAT [C/T] GCAAACAAGCCCAATTCGTTGTTATCAATTTGCTTAAATCGAGCAACGAGATAATCTTCC
6078 CaTSNP9093 CAGAGGTAGGCAATGCAAAAACCTGATCAGCAGATGTGTACTCCCACGCTTCTGTCAAGGA [C/T] TGGACCTGAGAAATGATGCTTCTGTGTGTATGAACAACCTCCCTTAGGTTTACCTGTTGTT
6079 CaTSNP9094 GGCAAGGTCAGCATCAACCTGGCTGAGATTAGTGAAGGGGTTCTGGAAGGTTGGTGAGT [A/G] GTGGTTTCAGATCCAGTAGGTTGTTGCTGTTGTTGTTGTTCTTCTTTTCTTTCA
6080 CaTSNP9095 AGATGAGGACATGAGGAGAGCGATGAGCAAGTCATTTCTGGAGTCAAATGGAACAGTGCT [A/C] TCAACTGATTGGAAAAGTGGGATCAAAGAAGGTGGAAGGCAGTCTCCAGAAGGCATG
6081 CaTSNP9096 AATTGGTGAAGTTGTTGGTGACGTTAATTTCCCATGCTGGTAGCCTCACAAATTTAGC [C/T] AAGTGCCCTCTTCAACTCTTCAGATTCTTGGTGCAGAAAAGGCTTTGTTTCAGGGCATTA
6082 CaTSNP9097 ACTCTCTTTTCTGAAAGTTTGTGTAATAATTTAATCTTTGATGTACTCTCTTTAC [A/G] GCATACTCTCCATCCGTAGACCAAGCAAATTCAGTGTGAACCAATGACCTATTTCTC
6083 CaTSNP9098 TTACAATGAAACCGACGCCGATCAGTACAATCTCGTTTTTCGCTAATTGTACCCTCAACA [A/G] CTCAAAGTCAACATGGATGTTGAATCTGCTATGTATAATCTCGACGGAAGAATAACGTT
6084 CaTSNP9099 CCTTTAATTTGGCTCTTCATGAAGTTCTCCACTTGTGCGTACCTTACCGCAAAAAT [A/G] TCATCATCCGAAAGCCCTGCCTGAGCCAACTCATCTTGTGGTAGATACACTCTTCTCTC
6085 CaTSNP9100 AAGTTCTTGGCAAGAAGTCTGTTTCGCTTGTGACGAACATGGTTTGATACAAGGCGATGTT [A/G] TGAACACCTCAAGAGATTAACCTTCTTGCACAGTGTGCTGGATAAAGTTCCAAAGGC
6086 CaTSNP9101 AGCAGAGCAGCAAGGTTCCGCAAAATGTTTTCTGCCACATGACAGTGTACATTCTGAGTT [G/T] GTAGTATTTTTCAAGCTTCATCGGTACAGGGGCCGATATAAACGACATTCTCTCTTGG

6087 CaTSNP9102 TTGTACAGCAACAATATTCTTCATTTTCATTAGTGATCTCTTTGGTAGCCATGGTTTCGTC [A/G] CCACCATTTACAATGTGCTCTGACAATAGCTTCAATGCATCTCTCTGACGCATCAATTGT
6088 CaTSNP9103 AGCATTCCCTGGACATGACAACCCCCAGCGACTGCCAGCAGTAGTCATGGAGGTAACATG [G/A] AATCCTTCTTTCCATTTCTGTTTTATCCATTTGAAAGGAAATGATTCGCCTCACCTTTGTAG
6089 CaTSNP9104 TTGAACGATCACATAACCTTAATTCCTTTGAGAGTCCACAAAGATTGGAAC TAGTTCCAGG [C/A] ACATGGATACTCTAACTACTTCTCCTTTGCTCACTTCTAAGTTCAAACCTCTGTTTTCTC
6090 CaTSNP9105 AAACCCCTTTATTCATCTTCCGCATTCTCTCTTTCTTCTACACCTTCTAATCCTTCCCCTT [C/A] TCTTCTCACTTCCGCTTTCCCTTTTCGCATCTTTCAAACCTCACCTTTCTTCAAATGTGC
6091 CaTSNP9106 AGTCGAGGTTCCGACGAGACGAAACGATCATGTCAATTTTTGTGAAACACTCTTTGGCCA [G/T] TTCCCAATTGTTAAGTACTATAGCATGTTTGAACCAAGCTTGATGTGAATATTGGTCC
6092 CaTSNP9107 GTGGGTGTTGAGGTAACAATATCACAGTAATCAAATGGACTAGCAACTTCCCTTAGCCGC [G/C] ACAAGACCACTAATATGAGCCATGTCACACATCAAACAGCTCCACATTTATCAGCAATC
6093 CaTSNP9108 GAGTAGGTCGTCGGTTACGGTTGCCGGAGTTGGTCTCCGGCGAATAGGAGTGATGATAC [A/G] CTGCTGCAGCAGCATGATGGAATCAAAGTGCCATTCTTCATTGCAAGAGATCGCTTAAC
6094 CaTSNP9109 CTGAAAAGCCAAAAACCACAAAGGACACAATTTAAGAAGCAGCAGCAGTAATGGCGGA [A/T] GAGGTGATGGAGCAACTCCATTGAAGAAAACAAAAGATTTTTTCAGATGAATCTTCTTCAA
6095 CaTSNP9110 CGAGCAGTTTCCAAAACCGATTCCAAGAGTTGATTAACACCTAGAACATCAGGGACGTTA [A/G] TTGAAAGTGATGTTCTGCGATCTGACTGGCTTCCACTTGGAGTCTCTTCATCCATCATAT
6096 CaTSNP9111 AGGCACATTATTCTTACCTCTCAGCCGTGAAGATATATTATCAATGGCAGAAATTTAGTTG [C/G] CCTATCTTTTCGTTCAAGTCTGCCTGGTCCCCTCTAGCCCTTCGTCGTAATAGATTGGT
6097 CaTSNP9112 AACCTGTGATGAAGTGAATGAGAGGTTGCGTGCAATAATGGCTTTGGATGATGATGATGA [T/A] GAAGAAGAAGAAGAGGATGGTGGTACTTTGAGAACACCGATCGCAGCCATTGATGCCATG
6098 CaTSNP9113 ATTTCCTAATGCCACACAGCCTGTTACGGACATCATCGCTAGGAGAAGCAAGGAGCTG [G/T] ACAAATAATGGGACAGCACCGTGATCAATTACTACCTTAGTGTTTTCAGATGTCCAGAA
6099 CaTSNP9114 CAAGTGCACTGAACTGTCATGTCACCTTATCCTTTTTAATATTCGGCTAAATCATAGAATC [G/A] AGGTATGAGTAATCCTGCGCCGGCCATATTAAGAAGGCTTCCATAAGTACGATCCCAA
6100 CaTSNP9115 GACACCACTGAATTGGGAAATGAGATCCGGGATTGCACTAGGAGCAGCCCGTGGCATTGA [C/G] TACCTTCATTCACAAGGGCCTAATGTCTCCCATGGAAATATAAAGTCTTCTAATATTCTC
6101 CaTSNP9116 ATTCATAGATTTAGCTGCTGCTCCAACTTCTCTTCTCTGCTTGAGCCTCTGTTTCTC [G/A] TCACGAAGTTCATCTTCTCAGCCTTTAACTCTTTAATCTTTTCTGGAAGACCCGTATTA
6102 CaTSNP9118 TGCTAATTTGAGTGAAAATCTGCGCGGTGTTAAGGAAAAAACGATGGATCTTCGAATGC [C/G] TTTGGGAATGTAGTGTTTTCTGATGGATATGCTATCCGTGGTTCTAGTTCAGATTCTAGA
6103 CaTSNP9119 GTCAGAAAAACTACCTCATTTGTCGGCTTTGTATCAGATATGACCACCTCACTGCTCTG [C/G] TGTGAGTTAGAATTGACTACCTCACTGCTGGGCTGTGCTTCAGACATGACCACCTCATCA
6104 CaTSNP9120 GACAATACAGGCTTCAGATTTTCATGACAATGCAAATATTACAGATTTGTCTTTAGGTC [G/A] GTAGACAAAGAACAAGGCATAGTAATGTTGATGCAGAAAGCCTTGAGTATATTTGCTCC
6105 CaTSNP9121 AACAGAAGTGCCAGTTGAAGTTGGGACTACACAAGAAACAGAGGAAGACAAACCAAAGGT [A/C] GAGAATCCAGCACCCGAAAAAGTTGAGGAAGTGAAGAGGAAGCAACAACCTGAGGAAGCC
6106 CaTSNP9122 AACGTTTCATGGAAGCAGCACACTTATCGGTATCGGGATCGCTGATGAGGAGAACTTGAG [A/G] GAGTTGCGGAGAAGGATTCCTTTGTAATCCTCTTGTGCGGTGCGTGCCTTCACAATCTCT
6107 CaTSNP9123 ACCATCAAGTGGAGGTTTAGAAGGATGTTTACTATAATCAAAAACATAAACCTCAGCACT [T/A] ATAGTTTTAGTGGCAATAATAAAACTATTTCTGAGGCATATAACGAGCCCTATTAACCTCA
6108 CaTSNP9124 GTTAAGTATAAGGACAGGGAAGGTGATTTGGTTACTATTACTACTACTTCTGAATTGAGG [C/T] TAGCTGAGGGTTGTCATGTGCTTGCTCGATTCCGTTATATATTACGAGGTGGATTTGG
6109 CaTSNP9125 TCCTGCAAAACTGTGGAACCTTGTAGTCTAGCTCTGCTCGAATATCAGCAGTAAGTGGCAC [A/G] ACAGAACCATCATCATTTGCATAGAATGGTTGTACATTTAGAGATTATACTTTCTGGAGCA
6110 CaTSNP9126 TTCCATAATATCTTGTGTCACAACTTCATCTCTTTTCGAGCGATTTATCCGATGCCAC [G/A] ATCTTGCTAGCAACCTCATTAGCCTTCTCATCAATATCAAAATTATCAAAGTGTGTTGAT
6111 CaTSNP9127 TGCCGAGATTTCATCATTAGGGCTAGAAAGCATTGATATGATACTCAACACTATACTCTC [C/T] ACTGTATGAACAGGTGTCCAGCGCTCACCTTGAAGCTCATAACCATTTGGATCATACCA
6112 CaTSNP9128 TGTGGGAAGTGATGAAAATTCAGAGGCTTCTCAGTTGCTATCTTGTGCTGACTTTGT [T/G] TACTGCACGGTGTGTGCATGCATGCAGACTCAGCATAAGGTTGAAATGGACAAGCGTGAC
6113 CaTSNP9129 AGAAAGTATATATGGAGGAAAGTTTGCAGATGAAAATGTCAAACATAAACATGATGGACC [T/C] GGTATCCTTTCAATGGCTAATAGTGGTCCCTAACCAACGGATCTCAGTTTTTTATTATA
6114 CaTSNP9130 TCTGTAATATGTAAGCTAGCTTGTGGAAGGTTCTTCTTTCTGCATCAAGCTTGTTC AAC [G/A] CTGGGTTAGGATTTGGGTTGGTTGGCTTTCTTGGCAGTAAGTAAGCTAAAGGCCACGA
6115 CaTSNP9131 ACACATGGCTCCCATCATTAAACCTCCACGTTTACGTTACCACCTCCTAAGTATACATT [A/G] CCACTCTCTTTATGTTCACTGGCTCCATCTATGACATTTGGTAAATCTCTTTTGCCATT
6116 CaTSNP9132 CTTCTGTTGGTAGGTTTACCTCTCTTCTTCTGTTCTGACATCTTTCCCTTTTCCACA [C/G] CTCCACCTCCCAACCATCTCACAACCACCATCGTACCACCACCACCACCATCAACCAC

6117 CaTSNP9133 CTTTGCCCTCTGAAGCCTTGAGAAGCTCTTTGTTGGCTGTCAAAGATATAGATGAAACACA [T/A] GGGGAAACCGTCATACCTGAAACTGGATATACTCTGATCGCCATTGTTGGAATCAAGGAT
6118 CaTSNP9134 CCAAACGGAATGCCTAAACAAAAATCATGAATTTTTGCAGTCCTTTCTGCTGATCAACA [C/T] CTTCTCGGATTGTCTCTCTGACTCAGTGACATTTCTTCTATTGTTGAAGACAACCTCCT
6119 CaTSNP9135 TGGCCACAAAAATAGCCAAAGGATGGCTTCATTTTTGCTGTATTTAACTAATGTTGAGGA [C/T] GGTGGCGAGACTATGTTCCATTTGAGAATGGCTCGAACATGGATGGTAGCTATGGCTAC
6120 CaTSNP9136 ATGTATATACTCCTTAACTCCTGGTGTGTTATATGTAAGGTCCAAGTCTCCACAATAAA [T/C] TTCACCGGTACTTTGATCTGTTCTCCGGTCCATGGCGCCATCAGTTCACAGTTAGGTCG
6121 CaTSNP9137 CACAGTTAATTTCTTCTCCTTCATGTCCATAGTGATAGCATCAATCCCTGAAAGTGTGA [G/A] ACTGCCTTCAAGGCCTTCTGCTTCGCCTTATCATCTGCCAAATCTAACTTCAGCACAAAC
6122 CaTSNP9138 TCTTTATGAACTTCAGTCTACACCACTAGCTGAGACAAAGCGTATTACTGTTCTTAAACC [G/T] TCGAAGATGGTTGACAATGAAAAGTTTCAGTAGAAAAGGAAACAATAGCGACAAACATATT
6123 CaTSNP9139 GAGGGAGAAGGATGATGGGCGAAAGAGACGCGAGTATTCAAGTGTAGGGAGAAATATCG [T/C] GATAAAGATCGTGATAGGGAACGTGATAGGTACAGAGGTAGAGACTCTGATCGTGAAAGA
6124 CaTSNP9140 AAGATTGAAACTCCTTGAGGAATTTGAAAAAGTTTCTACCAGTGAGGAACGCCAGTCCCTTT [G/A] TTGAGAAGCTTGATGAGGTGCAAGATTGGTTATATACAGATGGTGAAGATGCCAACGCTA
6125 CaTSNP9141 TTTTCGATTTATCTGGTTTGTTCGAGGACAAAAATCAACAGAAAGAGATGCGGTTTACATC [T/C] AACAGCCGGCCTCAACTATAATCTCGAAGTTGGAAGAAATTTGCAAGTGTCTTTGCTTG
6126 CaTSNP9142 CATGTTTAAACCGCTCCTCCAAAAACGCAGCAACAACGCCATTGGAATCAACCTTTCCCTT [A/G] AGGCGGCACGTCTTAGGATGTAGTCATAACCAAGCTAGCAGTAACATCTCTTGACAAG
6127 CaTSNP9143 GAAAGAGAGCGGTGGAACGTAGATGTTTTGTTGAGAATGCTGGTAGAATTGCTTCTCTC [A/G] TGCACCAAAAAGCAATTGAGACATGCCATTCTTGTCCACCACAGAACTACCCAGCTG
6128 CaTSNP9144 GCTTGGTTCTAAAAATGGTTTGTCTTTAGTACCAGATGCTTCTGGAAGAGACAACGAGCC [A/G] CTACCAGCATCCTCTGAACTATCCTTGCAATGTTCTGAAGTTGTTTCTATAAGATCAGAA
6129 CaTSNP9145 AAGTGAGACACAAATCAAAATATATTACTCCGCGTCTTCTCATCATCACCATCTCAGC [T/A] GCCCCAGCATCGTCTCCAATGCCTTCAAGTAGTTGATCGACATCTCCCCAACTCCAGC
6130 CaTSNP9146 ACAAGAAGCTTTAGCAACTCTTGTGTGAACAGACTTAGAGGATCACTGAAGATTGCAGC [A/G] CTTAAAGCCCTGGATTTGGAGAAAAGAAAAGCCAATACCTTGATGATATTGCCATCTTG
6131 CaTSNP9147 ATTATCATCACTCCAAACACCAGCAACCATGGATGGTAAATGTTCCAACCTTTTTCTCTAC [A/G] ACGACAGAGTGAAGAGAGGAAGAAATCTGCTGAGGTTGAAGGCCCTCACGCTCTTTTTCT
6132 CaTSNP9148 CCCGGAGATCAAAGAGTCGAGTCCAAGAAGGCCTTTGAAAGGAAGAGGAGTAGCAACA [C/G] TAGCAGCAGAGTTCACCACCCCGCTCGCAAACCATAGATAACTCCTGTATATCTACT
6133 CaTSNP9149 CTTCAATGTGCTGACTGATTTTGATGGCCAGCAACACCTTTTTAATGACTTGAGCTGTTT [G/C] TCACAGCCTGGCCCTGGTCTTGTCTGGTCTAAGACACTAATCCATCAAACTTTGAAGAG
6134 CaTSNP9150 ATTTGGCGAAAAGAGACAAAAGCAAAGGAGCAACCCCGGAAATTTTCCACGCTCGA [T/C] AAACCTACTGCTTCTCTTCTCTCCTTTAACAGAGGTTCTGTGACATCGTCTACGCT
6135 CaTSNP9151 GAGATCCACACAGGAAGCAATAGTTTTGCCACCATGGGTGCTCTAGCTGTTAGACCAAG [G/A] CCTGGTGTGTTGGGAATATCTGAGAGTGAATGTGCATGCTCTTGTGTTGAAGAATTGCAA
6136 CaTSNP9152 CTATCCTGTCTGCTCCAGGCTTACATCACTAAACTTGAGTTATGCTACAATCCAAAGCAC [G/A] GATCTTATCAAGCTTGTGGTCAATGTGAAAGTTTGCAGCGGCTATGGGTGCTGGATTAC
6137 CaTSNP9153 GAAGAAATTGGAAGAAGATGAAGCACCGCGAATCTACCACAGCGTCGGATTAATAGTCGG [T/C] GTCACAGGTATCGTCGGCAACAGCCTCGCCGAAATTTACCTCTCCCCGACACACCAGGC
6138 CaTSNP9154 TATTGGAGTATGTCACAGGATATTTAACTCAAAATTTACTGGTGAATCCTCACACCCA [T/C] CAACTGAAAATATGTGACTTTGGAAGTGTAAAGTCTTGGTAAAAGGTGAACCAACATA
6139 CaTSNP9155 TTGGGTCTACTCAACATAGATAATGTAGTTGATGTATTTCAACTTGCATTACTGTGTGAT [T/G] CTCCACGGCTCAGTCTCATCTGTACCCTAAAATAATCAAACTTCAAACTGTTTCGG
6140 CaTSNP9156 TTACATACTTTTCCATAAACTTGTATTCCCAATCCTGTAATGCATCAAGCTCAAATGGGC [T/C] GAGACCAGAAATATCGCCGGTTAAATCTTCTCTTCAAAAGACATCTTTGCTAAAAGCTCT
6141 CaTSNP9157 CGCTAGGGTAAGCAGAAACCCGATTTGATCAGGGGAATCGGAAAATACTCAAAATCTGC [C/T] ATGTACCACAAGAGAGGTCTCTGGGCCATCAAGGCCAAACACGGCGGCTTTCCCTAAA
6142 CaTSNP9158 CGACGGTTTTTAACTCTCGGAGTTCGCCGCCTTCTGCCGCTCCGGTTCGACAGACGG [T/C] GGCGCCTCAGAGTACGTGATGCCTTCGATCTGTACGATAAGGACAAGAACGGCCTCATC
6143 CaTSNP9159 TCTCTTCAATTATGATTCCAAACATGGCTTATGCAAACAAAAGCCTATATATATAACTTG [T/A] TGGGAGTTTCTTGTGATGTATATGCAAGATGCTTGTGTTAAAGTCTTCTTCAAG
6144 CaTSNP9160 AGAAAAGTTAATAGAATTTGGCAACAACACAGAAAGGCTTTCAGGTATGTTTCCAGTTAA [T/G] AGATTATTTGAAAGATCAAGAAGTTAAGTATTCCAACAAGAAAGTGAAGTACTAGGAATA

Table S2: Genetic positions (cM) of 6698 markers distributed on eight LGs of the chickpea interspecific linkage map

S. No.	Linkage groups (LGs)	Marker Name	Genetic Positions (cM)	Scaffolds	Size (bp)
1	CaLG1	CESSR139	0	scaffold00763	110066
2	CaLG1	PIP160	6.328	-	-
3	CaLG1	PIP146	7.275	-	-
4	CaLG1	NCPGR6	12.72	scaffold00692	143771
6	CaLG1	CaGMS433	14.7	-	-
7	CaLG1	CaGMS453	14.7	-	-
5	CaLG1	CaGMS462	14.7	-	-
8	CaLG1	TS57	14.8	-	-
9	CaLG1	CaGMS1146	15.99	-	-
10	CaLG1	CaGMS321	16.09	-	-
11	CaLG1	H3H021	16.17	-	-
12	CaLG1	CESSR43	16.2	-	-
13	CaLG1	PIP152	16.95	-	-
14	CaLG1	CaTMS1095	18.6	-	-
15	CaLG1	TA203	18.84	-	-
16	CaLG1	CaTMS652	19.2	-	-
17	CaLG1	CaTMS746	19.21	-	-
18	CaLG1	CaTMS1110	19.23	-	-
20	CaLG1	CaTMS870	19.24	-	-
19	CaLG1	CaTMS928	19.24	-	-
21	CaLG1	GAA40	21.63	-	-
22	CaLG1	CaSNP4447	21.82	scaffold02944	32324
23	CaLG1	CaGMS51	24.05	-	-
24	CaLG1	CESSR42	24.1	scaffold00334	229764

25	CaLG1	CESSR45	24.14	-	-
26	CaLG1	CaGMS1318	25.49	-	-
27	CaLG1	CaGMS1234	25.49	-	-
28	CaLG1	CaGMS1313	25.49	-	-
29	CaLG1	CaTMS977	25.54	-	-
30	CaLG1	CaGMS1297	26.4	-	-
31	CaLG1	CaSNP710	28.18	-	-
32	CaLG1	CaGMS331	28.24	-	-
33	CaLG1	CESSR159	28.52	-	-
34	CaLG1	NCPGR33	28.65	scaffold03001	29165
35	CaLG1	CaTSNP6056	30.08	-	-
36	CaLG1	CaSNP3970	31.4	scaffold02261	44496
37	CaLG1	TR43	32.07	-	-
38	CaLG1	NCPGR165	33.04	-	-
39	CaLG1	CaTSNP7283	33.14	-	-
40	CaLG1	CaTSNP7669	34.31	-	-
41	CaLG1	CaSNP915	34.87	scaffold00497	144034
42	CaLG1	CaTSNP6814	35.29	scaffold05768	10170
43	CaLG1	CaTSNP6924	35.29	-	-
44	CaLG1	CaTSNP7255	35.4	-	-
45	CaLG1	CaTSNP8887	35.41	scaffold00076	413143
46	CaLG1	CaSNP215	35.5	scaffold00066	415502
47	CaLG1	CESSR433	35.51	-	-
48	CaLG1	CaTSNP9043	35.64	-	-
49	CaLG1	CaTSNP7543	35.65	-	-
50	CaLG1	CaTSNP8323	35.7	-	-
51	CaLG1	CaTSNP7793	35.78	-	-
52	CaLG1	CaSNP883	35.78	-	-
53	CaLG1	CaTSNP7659	35.84	-	-

54	CaLG1	CaTSNP8246	35.85	-	-
55	CaLG1	CaSNP555	35.86	-	-
56	CaLG1	CaSNP53	35.91	-	-
57	CaLG1	CaSNP249	35.93	scaffold01580	67777
58	CaLG1	CaSNP164	35.99	9096683	34354
59	CaLG1	CaSNP218	36.02	scaffold00082	406676
60	CaLG1	CaTSNP6202	36.11	-	-
61	CaLG1	CaTSNP8594	36.12	-	-
62	CaLG1	CaTSNP8304	36.12	-	-
63	CaLG1	CaSNP166	36.12	scaffold00132	303872
64	CaLG1	CaTSNP7576	36.15	9213002	55988
65	CaLG1	CaSNP743	36.17	-	-
66	CaLG1	CaTSNP8652	36.27	-	-
67	CaLG1	CaSNP2327	36.42	scaffold00981	100022
68	CaLG1	CaTSNP7173	36.47	-	-
69	CaLG1	CaTSNP6170	36.5	-	-
70	CaLG1	CaTSNP9053	36.52	-	-
71	CaLG1	CaTSNP6214	36.54	-	-
72	CaLG1	CaTSNP6685	36.55	-	-
73	CaLG1	CaTSNP7234	36.56	-	-
74	CaLG1	CaSNP173	36.57	scaffold00243	236162
75	CaLG1	CaTSNP6206	36.59	-	-
76	CaLG1	CaTSNP8945	36.59	-	-
77	CaLG1	CaTSNP7175	36.64	-	-
78	CaLG1	CaTSNP7911	36.68	-	-
79	CaLG1	CaTSNP7978	36.69	-	-
80	CaLG1	CaSNP5053	36.71	9133848	45669
81	CaLG1	CaSNP549	36.74	scaffold02356	39114
82	CaLG1	CaTSNP7030	36.74	-	-

83	CaLG1	CEST86	36.81	-	-
84	CaLG1	CaSNP2731	36.82	-	-
85	CaLG1	CaSNP2004	36.83	scaffold00406	173097
86	CaLG1	CaTSNP7135	36.91	-	-
87	CaLG1	CaSNP4130	36.93	scaffold00347	181673
88	CaLG1	CaSNP2262	37.06	-	-
89	CaLG1	CaTSNP7163	37.07	-	-
90	CaLG1	CaSNP5105	37.07	scaffold00025	636138
91	CaLG1	CaSNP3513	37.13	scaffold06342	8729
92	CaLG1	CaSNP4572	37.16	scaffold03416	25492
93	CaLG1	CaTSNP7101	37.28	-	-
94	CaLG1	CaTSNP6633	37.37	-	-
95	CaLG1	PIP220	37.43	-	-
96	CaLG1	CaSNP2790	37.44	scaffold01188	77233
97	CaLG1	CaSNP714	37.5	-	-
98	CaLG1	CaSNP2419	37.61	scaffold01141	79431
99	CaLG1	CaTSNP7764	37.65	-	-
100	CaLG1	CaTSNP7069	37.74	-	-
101	CaLG1	CaTSNP8859	37.93	scaffold00824	119875
102	CaLG1	CaSNP421	37.93	scaffold00800	115869
103	CaLG1	CaTSNP7634	37.97	-	-
104	CaLG1	CaTSNP6393	38.09	scaffold00713	145455
106	CaLG1	CaSNP2214	38.17	-	-
105	CaLG1	CaSNP4302	38.17	-	-
107	CaLG1	CaSNP3527	38.55	scaffold00304	190190
108	CaLG1	CaTSNP7211	38.55	-	-
109	CaLG1	CaSNP3521	38.72	scaffold01115	100803
110	CaLG1	CaTSNP6209	38.81	scaffold02082	44897
111	CaLG1	CaTSNP8683	38.81	-	-

112	CaLG1	CaTSNP7154	38.85	-	-
113	CaLG1	CaTSNP7244	38.92	-	-
114	CaLG1	CaTSNP8916	38.92	-	-
115	CaLG1	CaSNP4039	38.94	scaffold01262	80297
116	CaLG1	CaTSNP8001	39.33	-	-
117	CaLG1	CaSNP2191	39.42	scaffold00548	143078
118	CaLG1	CaSNP2358	39.51	-	-
119	CaLG1	CaTSNP8648	39.51	-	-
120	CaLG1	CaSNP55	39.53	-	-
122	CaLG1	CaTSNP6408	39.55	-	-
121	CaLG1	CaTSNP8075	39.55	-	-
123	CaLG1	CaSNP3802	39.55	scaffold02444	39306
124	CaLG1	CaTSNP7655	39.59	-	-
125	CaLG1	CaTSNP8443	39.59	-	-
126	CaLG1	CaSNP3257	39.61	scaffold01724	60528
127	CaLG1	CaSNP2078	39.65	scaffold00046	466868
128	CaLG1	CaSNP3961	39.65	-	-
129	CaLG1	CaSNP2627	39.67	scaffold00831	109251
130	CaLG1	CaSNP372	39.67	-	-
131	CaLG1	CaSNP440	39.67	-	-
132	CaLG1	CaSNP843	39.7	-	-
133	CaLG1	CaSNP4081	39.71	scaffold02598	36056
134	CaLG1	CaSNP3732	39.78	-	-
135	CaLG1	CaTMS873	39.8	-	-
136	CaLG1	CaSNP472	39.87	9210538	55153
137	CaLG1	CaSNP3120	39.93	-	-
138	CaLG1	CaTSNP7759	39.94	scaffold00720	138634
139	CaLG1	CaTSNP8737	40.04	-	-
140	CaLG1	CaSNP3246	40.08	scaffold00876	100638

141	CaLG1	CaTSNP8971	40.14	scaffold01036	86467
142	CaLG1	CaSNP327	40.19	-	-
143	CaLG1	CaTSNP8513	40.19	-	-
144	CaLG1	CaSNP2093	40.26	-	-
145	CaLG1	CaSNP131	40.28	scaffold00013	708368
146	CaLG1	CaTSNP8663	40.34	-	-
147	CaLG1	CaSNP81	40.36	scaffold01307	83897
148	CaLG1	CaTSNP8932	40.37	-	-
149	CaLG1	CaTSNP7645	40.41	-	-
150	CaLG1	CaSNP3090	40.42	scaffold01918	59264
151	CaLG1	CaSNP1972	40.43	9202483	40420
152	CaLG1	CaSNP689	40.52	-	-
153	CaLG1	CaSNP396	40.6	-	-
154	CaLG1	CaTSNP8480	40.82	-	-
155	CaLG1	CaTSNP8659	40.93	scaffold05689	10359
156	CaLG1	CaTSNP6245	41.21	-	-
157	CaLG1	CaTSNP8657	41.52	-	-
158	CaLG1	CaTSNP9022	41.56	-	-
159	CaLG1	CaTSNP8203	41.57	-	-
160	CaLG1	CaTSNP6611	41.58	-	-
161	CaLG1	CaTSNP6311	41.62	scaffold00453	170763
162	CaLG1	CaTSNP7505	41.67	-	-
163	CaLG1	CaTSNP6847	41.74	-	-
164	CaLG1	CaTSNP7490	41.78	-	-
165	CaLG1	CaTSNP8564	42.47	-	-
166	CaLG1	CaTSNP8940	42.7	-	-
167	CaLG1	CaTSNP8684	42.72	-	-
168	CaLG1	CaTSNP6729	42.72	-	-
169	CaLG1	CaTSNP8759	42.77	-	-

170	CaLG1	CaTSNP8233	42.8	-	-
172	CaLG1	CaTSNP6190	43.25	-	-
171	CaLG1	CaTSNP6569	43.25	-	-
173	CaLG1	CaTSNP8512	43.88	-	-
174	CaLG1	CaTSNP9030	44.17	-	-
175	CaLG1	CaTSNP7877	44.2	-	-
176	CaLG1	CEST104	44.21	-	-
177	CaLG1	CaTSNP8422	44.23	-	-
178	CaLG1	CaTMS673	44.38	-	-
179	CaLG1	CaSNP3397	44.39	-	-
180	CaLG1	CaSNP2891	44.43	scaffold00043	491956
181	CaLG1	CaSNP2834	44.46	scaffold00026	610816
182	CaLG1	CaTSNP6063	44.55	-	-
183	CaLG1	CaTSNP7894	44.55	-	-
185	CaLG1	CaTSNP7596	44.61	-	-
184	CaLG1	CaTSNP7846	44.61	-	-
186	CaLG1	CaTSNP6878	45.21	scaffold01404	68698
187	CaLG1	CaTSNP7916	45.21	-	-
188	CaLG1	CaTSNP7081	45.35	-	-
189	CaLG1	CaTSNP7636	45.37	-	-
190	CaLG1	CaTSNP7675	45.37	-	-
191	CaLG1	CaTSNP7201	45.4	9137411	44100
192	CaLG1	CaTSNP6986	45.46	-	-
193	CaLG1	CaTSNP7393	45.46	-	-
194	CaLG1	CaTSNP8133	45.52	-	-
195	CaLG1	CaTSNP6267	45.53	scaffold00303	197652
196	CaLG1	CaTSNP8198	45.54	-	-
197	CaLG1	CaTSNP8324	45.54	-	-
198	CaLG1	CaTSNP6243	45.56	-	-

199	CaLG1	CaTSNP9057	45.56	-	-
200	CaLG1	CaTSNP8448	45.57	-	-
201	CaLG1	CaTSNP6465	45.58	-	-
202	CaLG1	CaTSNP7713	45.63	-	-
203	CaLG1	CaTSNP6035	45.8	-	-
204	CaLG1	CaTSNP8629	45.8	-	-
205	CaLG1	CaTSNP8973	45.81	-	-
206	CaLG1	CaTSNP8386	45.84	-	-
207	CaLG1	CaTSNP7033	45.88	-	-
208	CaLG1	CaTSNP7577	46	-	-
209	CaLG1	CaTSNP7330	46.13	-	-
210	CaLG1	CaTSNP8733	46.14	-	-
212	CaLG1	CaTSNP6093	46.14	-	-
211	CaLG1	CaTSNP6555	46.14	scaffold01351	69045
213	CaLG1	CaTSNP8541	46.15	-	-
214	CaLG1	CaTSNP8841	46.19	-	-
215	CaLG1	CaTSNP9092	46.29	-	-
216	CaLG1	CaTSNP6974	46.34	scaffold03254	25939
217	CaLG1	CaSNP2479	46.62	scaffold01487	84264
218	CaLG1	CaSNP4328	46.76	scaffold01090	91485
219	CaLG1	CaTSNP8058	46.78	-	-
220	CaLG1	CaSNP4839	46.82	scaffold06277	9389
221	CaLG1	CaTSNP7521	46.84	-	-
222	CaLG1	CaTMS955	46.88	-	-
224	CaLG1	CaTSNP6783	46.9	9207696	40749
223	CaLG1	CaTSNP8860	46.9	-	-
225	CaLG1	CaSNP2115	46.98	scaffold00217	247421
226	CaLG1	CaSNP3130	47.07	scaffold02027	47022
227	CaLG1	CaSNP3302	47.07	-	-

228	CaLG1	CaSNP2285	47.07	scaffold00205	241351
229	CaLG1	CaSNP2804	47.08	scaffold01208	87731
230	CaLG1	CaTSNP6616	47.09	-	-
231	CaLG1	CaTSNP7295	47.09	9208649	33868
232	CaLG1	CaTSNP7567	47.12	-	-
233	CaLG1	CaSNP1932	47.25	9202602	37024
235	CaLG1	CaTSNP8326	47.25	-	-
234	CaLG1	CaTSNP8870	47.25	-	-
236	CaLG1	CaSNP2970	47.45	9215808	20494
237	CaLG1	CaSNP2445	47.56	scaffold01450	74240
238	CaLG1	CaTSNP6375	47.65	scaffold01119	92110
239	CaLG1	CaTSNP8066	47.65	-	-
240	CaLG1	CaTSNP9126	47.66	-	-
241	CaLG1	CaTSNP7474	47.67	-	-
242	CaLG1	CaSNP2414	47.72	scaffold00433	158128
243	CaLG1	CaTSNP7513	47.81	-	-
247	CaLG1	CaTSNP6801	47.85	scaffold02450	39527
245	CaLG1	CaTSNP7058	47.85	-	-
248	CaLG1	CaTSNP7614	47.85	-	-
246	CaLG1	CaTSNP7784	47.85	-	-
244	CaLG1	CaTSNP7961	47.85	-	-
249	CaLG1	CaTSNP9146	47.85	-	-
250	CaLG1	CaTSNP6651	47.86	-	-
251	CaLG1	CaTSNP7166	47.86	scaffold03226	28959
252	CaLG1	CaTSNP8863	47.87	-	-
253	CaLG1	CaSNP3587	47.88	-	-
254	CaLG1	CaSNP2079	47.95	scaffold00054	437934
255	CaLG1	CaTSNP7296	48.01	scaffold01313	90114
256	CaLG1	CaSNP5149	48.02	-	-

257	CaLG1	CaSNP2325	48.04	scaffold00546	145604
258	CaLG1	CaSNP2104	48.09	9174820	48193
259	CaLG1	CaSNP3611	48.12	9202516	2550
260	CaLG1	CaSNP5022	48.14	-	-
261	CaLG1	CaTSNP8160	48.2	-	-
262	CaLG1	CaSNP2286	48.22	scaffold01002	87513
266	CaLG1	CaSNP2236	48.23	9208845	25833
263	CaLG1	CaSNP2815	48.23	-	-
264	CaLG1	CaSNP3896	48.23	scaffold02237	42110
265	CaLG1	CaSNP4567	48.23	scaffold02943	29871
267	CaLG1	CaSNP3574	48.24	scaffold00350	200794
268	CaLG1	CaSNP1992	48.24	scaffold01063	97092
269	CaLG1	CaTSNP9148	48.33	-	-
270	CaLG1	CaSNP2580	48.4	scaffold00769	127520
271	CaLG1	CaSNP4371	48.48	-	-
272	CaLG1	CaTSNP7412	48.51	-	-
273	CaLG1	CaSNP7	48.51	-	-
274	CaLG1	CaSNP2525	48.56	-	-
275	CaLG1	CaSNP3216	48.7	9212167	54426
276	CaLG1	CaTSNP6382	48.8	-	-
277	CaLG1	CaTSNP7789	48.8	-	-
278	CaLG1	CaTSNP8340	48.81	-	-
279	CaLG1	CaSNP2565	48.84	scaffold01500	63463
280	CaLG1	CaTMS618	48.88	-	-
281	CaLG1	CaTSNP6235	48.89	-	-
282	CaLG1	CaTSNP8302	48.89	-	-
283	CaLG1	CaTSNP6336	48.9	scaffold01931	49443
284	CaLG1	CaTSNP7434	48.9	-	-
285	CaLG1	CaTSNP7833	48.91	-	-

286	CaLG1	CaSNP3441	48.92	-	-
287	CaLG1	CaSNP2397	48.92	scaffold00319	192175
288	CaLG1	CaTSNP8603	48.93	-	-
289	CaLG1	CaTSNP8821	48.94	-	-
290	CaLG1	CaSNP4889	48.96	scaffold01403	74309
291	CaLG1	CaTMS544	48.96	-	-
292	CaLG1	CaTSNP8851	49.12	-	-
293	CaLG1	CaSNP3329	49.3	scaffold00782	124586
294	CaLG1	CaSNP124	49.54	scaffold00223	223726
295	CaLG1	CaSNP4831	49.66	scaffold03195	28384
296	CaLG1	CaSNP3174	49.66	scaffold00591	143690
297	CaLG1	CaSNP2009	49.66	scaffold00668	131427
298	CaLG1	CaSNP4099	49.68	scaffold00910	108946
299	CaLG1	CaSNP3652	49.69	scaffold02324	46401
300	CaLG1	CaSNP2728	49.69	scaffold01612	63302
301	CaLG1	CaSNP4107	49.69	scaffold01005	87807
302	CaLG1	CaSNP2117	49.7	scaffold02086	45929
304	CaLG1	CaSNP2226	49.7	scaffold00786	113799
305	CaLG1	CaSNP2446	49.7	scaffold05457	11053
306	CaLG1	CaSNP2558	49.7	scaffold00938	103824
308	CaLG1	CaSNP2746	49.7	scaffold01399	77720
307	CaLG1	CaSNP3212	49.7	scaffold00485	164063
309	CaLG1	CaSNP3428	49.7	9203845	7026
303	CaLG1	CaSNP3810	49.7	scaffold01787	63493
310	CaLG1	CaSNP4027	49.7	scaffold01318	118135
311	CaLG1	CaSNP4449	49.7	scaffold03402	41966
312	CaLG1	CaSNP2601	49.7	scaffold00832	123037
313	CaLG1	CaSNP2839	49.7	scaffold01467	81987
314	CaLG1	CaSNP3650	49.7	scaffold02852	61459

315	CaLG1	CaSNP3990	49.7	-	-
316	CaLG1	CaSNP3557	49.71	9207810	30879
317	CaLG1	CaSNP3095	49.71	scaffold00268	236171
318	CaLG1	CaSNP3394	49.71	scaffold02498	41638
321	CaLG1	CaSNP2021	49.71	9203344	14029
319	CaLG1	CaSNP2462	49.71	scaffold00657	131174
320	CaLG1	CaSNP2608	49.71	scaffold00099	339370
322	CaLG1	CaSNP4262	49.71	scaffold02436	47207
323	CaLG1	CaSNP4499	49.71	scaffold00683	145162
324	CaLG1	CaSNP3502	49.71	scaffold01371	72166
325	CaLG1	CaSNP2708	49.72	scaffold04679	15421
326	CaLG1	CaSNP3876	49.72	scaffold08799	5308
328	CaLG1	CaSNP4496	49.72	scaffold04846	13471
327	CaLG1	CaSNP4740	49.72	-	-
329	CaLG1	CaSNP2999	49.72	-	-
331	CaLG1	CaSNP2681	49.72	scaffold00748	124336
330	CaLG1	CaSNP3766	49.72	-	-
334	CaLG1	CaSNP4162	49.72	scaffold03367	30852
332	CaLG1	CaSNP4759	49.72	scaffold05882	9886
333	CaLG1	CaSNP5059	49.72	scaffold15706	2250
335	CaLG1	CaSNP4848	49.72	-	-
336	CaLG1	CaSNP4778	49.72	scaffold02619	34796
337	CaLG1	CaSNP3637	49.73	scaffold02050	45502
338	CaLG1	CaSNP2844	49.73	scaffold01130	86028
340	CaLG1	CaSNP2520	49.73	scaffold01530	70908
339	CaLG1	CaSNP2545	49.73	scaffold01644	65645
341	CaLG1	CaSNP3510	49.73	-	-
342	CaLG1	CaSNP4325	49.73	9214046	5898
344	CaLG1	CaSNP3191	49.74	scaffold00297	225323

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346	CaLG1	CaSNP2048	49.74	scaffold00730	149623
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348	CaLG1	CaSNP3334	49.74	9214706	36730
345	CaLG1	CaSNP4372	49.74	scaffold02791	32876
349	CaLG1	CaSNP4810	49.74	scaffold03202	34429
350	CaLG1	CaSNP4558	49.74	scaffold02693	55084
351	CaLG1	CaSNP5122	49.74	-	-
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365	CaLG1	CaSNP2820	49.74	scaffold01419	66644
359	CaLG1	CaSNP3017	49.74	scaffold02475	47569
358	CaLG1	CaSNP3073	49.74	scaffold00521	155034
357	CaLG1	CaSNP3198	49.74	-	-
360	CaLG1	CaSNP3348	49.74	-	-
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353	CaLG1	CaSNP3463	49.74	9205477	42466
364	CaLG1	CaSNP3830	49.74	scaffold00274	232240
363	CaLG1	CaSNP3848	49.74	scaffold02211	59693
354	CaLG1	CaSNP3976	49.74	scaffold01197	89279
362	CaLG1	CaSNP4152	49.74	9212470	3364
355	CaLG1	CaSNP4932	49.74	scaffold00980	113528
356	CaLG1	CaSNP4943	49.74	scaffold03137	36893
366	CaLG1	CaSNP2185	49.74	scaffold01624	66790
367	CaLG1	CaSNP2920	49.74	9181938	19858
368	CaLG1	CaSNP4469	49.75	scaffold05013	15290
369	CaLG1	CaSNP2704	49.75	scaffold06118	9249
370	CaLG1	CaSNP4616	49.75	scaffold02559	36356
371	CaLG1	CaSNP2423	49.75	scaffold01452	91271
373	CaLG1	CaSNP2847	49.75	scaffold00774	114496

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375	CaLG1	CaSNP3920	49.75	9212089	12739
374	CaLG1	CaSNP3995	49.75	scaffold06514	8331
382	CaLG1	CaSNP2546	49.75	scaffold09552	5632
379	CaLG1	CaSNP2776	49.75	scaffold00625	153601
384	CaLG1	CaSNP2833	49.75	scaffold02827	40221
376	CaLG1	CaSNP2948	49.75	scaffold01797	54507
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388	CaLG1	CaSNP3368	49.75	scaffold01767	53538
377	CaLG1	CaSNP3480	49.75	scaffold02271	45289
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381	CaLG1	CaSNP4256	49.75	-	-
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389	CaLG1	CaSNP2807	49.75	scaffold00237	230927
391	CaLG1	CaSNP3300	49.75	scaffold00839	111126
390	CaLG1	CaSNP5061	49.75	scaffold02163	57816
395	CaLG1	CaSNP2864	49.75	scaffold01259	80990
392	CaLG1	CaSNP2878	49.75	9204557	28452
396	CaLG1	CaSNP3501	49.75	scaffold02340	51193
394	CaLG1	CaSNP3857	49.75	scaffold01284	78385
393	CaLG1	CaSNP4289	49.75	-	-
398	CaLG1	CaSNP2503	49.75	scaffold00502	150052
403	CaLG1	CaSNP3662	49.75	-	-
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402	CaLG1	CaSNP5071	49.75	-	-
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406	CaLG1	CaSNP2856	49.76	scaffold01031	92578
405	CaLG1	CaSNP3886	49.76	scaffold02605	34898
407	CaLG1	CaSNP3215	49.76	-	-
409	CaLG1	CaSNP3361	49.76	scaffold01268	96139
408	CaLG1	CaSNP4593	49.76	scaffold02578	40073
410	CaLG1	CaSNP3967	49.76	-	-
411	CaLG1	CaSNP2759	49.76	scaffold01636	58357
412	CaLG1	CaSNP3704	49.76	-	-
413	CaLG1	CaSNP2290	49.76	scaffold06506	8342
414	CaLG1	CaSNP3555	49.77	-	-
415	CaLG1	CaSNP4556	49.77	scaffold02127	50952
416	CaLG1	CaSNP5064	49.77	scaffold01728	73803
417	CaLG1	CaSNP2989	49.77	scaffold05422	11628
418	CaLG1	CaSNP4691	49.78	scaffold02664	58975
419	CaLG1	CaSNP4699	49.78	scaffold00273	242905
420	CaLG1	CaSNP4722	49.78	scaffold03405	31414
426	CaLG1	CaSNP3744	49.79	-	-
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427	CaLG1	CaSNP4350	49.79	scaffold01308	90298
425	CaLG1	CaSNP4479	49.79	scaffold03473	30410
422	CaLG1	CaSNP4564	49.79	-	-
423	CaLG1	CaSNP4805	49.79	scaffold01562	74069
421	CaLG1	CaSNP4887	49.79	scaffold03242	26123
428	CaLG1	CaSNP4704	49.79	scaffold04344	16274
429	CaLG1	CaSNP4610	49.79	scaffold02004	63567
430	CaLG1	CaSNP3395	49.79	scaffold01081	108540

431	CaLG1	CaSNP2213	49.79	9215374	34533
432	CaLG1	CaSNP2421	49.79	scaffold00565	140709
433	CaLG1	CaSNP2233	49.8	scaffold00700	124226
435	CaLG1	CaSNP3399	49.8	scaffold01087	88333
434	CaLG1	CaSNP5117	49.8	scaffold01832	64728
436	CaLG1	CaSNP4742	49.82	scaffold02601	34949
437	CaLG1	CaSNP3315	49.82	scaffold00534	171320
438	CaLG1	CaSNP2551	49.83	scaffold00695	128496
439	CaLG1	CaSNP4906	49.83	-	-
440	CaLG1	CaSNP2146	49.84	scaffold02778	51712
441	CaLG1	CaSNP2085	49.86	scaffold01096	89397
442	CaLG1	CaSNP2741	49.89	scaffold02666	38511
443	CaLG1	CaSNP4260	49.91	scaffold02268	45771
444	CaLG1	CaSNP2803	49.93	scaffold01150	82662
445	CaLG1	CaSNP4876	50.02	scaffold00977	111647
446	CaLG1	CaSNP2832	50.11	scaffold01391	86866
447	CaLG1	CaSNP4824	50.14	-	-
448	CaLG1	CaSNP3152	50.14	scaffold01941	49505
449	CaLG1	CaSNP3779	50.14	scaffold04140	17680
450	CaLG1	CaSNP3844	50.14	scaffold01658	66330
451	CaLG1	CaSNP820	50.36	-	-
452	CaLG1	CaSNP3940	50.39	-	-
453	CaLG1	CaTMS731	50.4	-	-
454	CaLG1	CaSNP3275	50.45	-	-
455	CaLG1	CaSNP3987	50.45	scaffold01000	100955
456	CaLG1	CaSNP2241	50.5	scaffold00341	198169
457	CaLG1	CaGMS31	50.8	scaffold04999	20786
458	CaLG1	CaSNP4040	50.86	-	-
459	CaLG1	CaTMS557	51	-	-

460	CaLG1	CaSNP3828	51.01	scaffold03842	20932
461	CaLG1	CaTSNP7418	51.07	-	-
462	CaLG1	CaSNP911	51.1	scaffold00484	177884
463	CaLG1	CaSNP2330	51.12	scaffold00254	241771
464	CaLG1	CaSNP4970	51.15	scaffold01803	56189
465	CaLG1	CaTSNP8159	51.16	scaffold01415	68337
466	CaLG1	CaTSNP6544	51.17	-	-
467	CaLG1	CaTSNP6410	51.22	scaffold05282	11837
468	CaLG1	CaSNP3430	51.26	-	-
469	CaLG1	CaTSNP6749	51.32	scaffold00793	137549
470	CaLG1	CaTSNP6512	51.34	-	-
471	CaLG1	CaSNP3787	51.42	scaffold02701	34192
472	CaLG1	CaTSNP6846	51.42	-	-
473	CaLG1	CaSNP2162	51.44	scaffold00438	162849
475	CaLG1	CaTSNP6965	51.49	-	-
474	CaLG1	CaTSNP8327	51.49	scaffold01250	102959
476	CaLG1	CaTSNP7008	51.49	9205518	17583
477	CaLG1	CaTSNP6646	51.51	scaffold03276	25732
478	CaLG1	CaTSNP6800	51.51	-	-
479	CaLG1	CaTSNP7520	51.51	-	-
480	CaLG1	CaTSNP6258	51.53	-	-
481	CaLG1	CaTSNP7893	51.53	-	-
482	CaLG1	CaTSNP6395	51.55	scaffold01062	88526
483	CaLG1	CaTSNP7630	51.55	-	-
487	CaLG1	CaSNP2037	51.58	scaffold00233	217940
486	CaLG1	CaSNP2910	51.58	-	-
485	CaLG1	CaSNP3484	51.58	-	-
484	CaLG1	CaSNP3925	51.58	scaffold02507	36613
488	CaLG1	CaTSNP6014	51.67	scaffold03312	34240

489	CaLG1	CaTSNP8692	51.67	-	-
490	CaLG1	CaTSNP6831	51.69	-	-
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494	CaLG1	CaTSNP6073	51.78	-	-
495	CaLG1	CaTSNP6141	51.78	-	-
496	CaLG1	CaTSNP8095	51.78	-	-
497	CaLG1	CaTSNP8551	51.78	-	-
498	CaLG1	CaSNP3985	51.79	scaffold03262	42015
499	CaLG1	CaTSNP8995	51.81	scaffold01572	61527
501	CaLG1	CaTSNP7232	51.86	-	-
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502	CaLG1	CaTSNP7953	51.92	-	-
503	CaLG1	CaTSNP6786	51.92	-	-
504	CaLG1	CaTSNP8130	51.94	-	-
505	CaLG1	CaSNP612	52	-	-
506	CaLG1	CaTSNP8554	52.07	-	-
507	CaLG1	CaSNP390	52.2	9185398	33040
508	CaLG1	ESNP18	52.21	-	-
509	CaLG1	CaTSNP6117	52.24	-	-
510	CaLG1	CESSR20	52.24	-	-
511	CaLG1	CaTSNP7923	52.27	-	-
512	CaLG1	CaSNP253	52.32	scaffold01649	76123
513	CaLG1	CaSNP387	52.35	-	-
514	CaLG1	CaSNP2980	52.37	-	-
515	CaLG1	CaSNP242	52.38	scaffold00899	99654
516	CaLG1	ESNP64	52.38	-	-
517	CaLG1	CaTSNP7366	52.39	scaffold02109	50514

518	CaLG1	PIP54	52.49	-	-
519	CaLG1	CaTSNP8831	52.53	-	-
520	CaLG1	CaTSNP6467	52.55	-	-
521	CaLG1	CaTSNP7947	52.63	-	-
522	CaLG1	CaSNP632	52.71	-	-
523	CaLG1	CaSNP209	52.74	scaffold00439	167076
524	CaLG1	ESNP32	52.74	-	-
525	CaLG1	ESNP15	52.76	-	-
526	CaLG1	ESNP33	52.76	9211845	14933
527	CaLG1	CaSNP5139	52.97	scaffold02467	55637
528	CaLG1	CaSNP71	52.98	-	-
529	CaLG1	CaTSNP6994	52.98	-	-
531	CaLG1	CaTSNP6426	52.99	-	-
530	CaLG1	CaTSNP7711	52.99	-	-
532	CaLG1	CaTSNP6172	52.99	-	-
533	CaLG1	CaSNP3847	53.11	scaffold01279	73912
534	CaLG1	CaSNP14	53.54	scaffold00183	263231
535	CaLG1	CaSNP2132	53.87	scaffold00167	277535
536	CaLG1	CaSNP2426	53.87	-	-
537	CaLG1	CaSNP702	53.97	-	-
538	CaLG1	CaSNP815	54.02	9203123	65001
539	CaLG1	ESNP14	54.06	-	-
540	CaLG1	CaTSNP6902	54.19	-	-
541	CaLG1	CaSNP810	54.22	scaffold01584	65821
542	CaLG1	CaSNP784	54.22	scaffold02790	39485
543	CaLG1	CaSNP578	54.42	scaffold00145	278516
544	CaLG1	CaSNP203	54.48	scaffold00841	113703
545	CaLG1	CaSNP3270	54.56	scaffold01993	52377
546	CaLG1	CaTSNP6726	54.72	-	-

547	CaLG1	CaTSNP9027	54.74	-	-
548	CaLG1	CaTSNP6991	55.68	-	-
549	CaLG1	CaSNP3457	55.78	scaffold01146	95646
550	CaLG1	CaTMS776	56.06	-	-
551	CaLG1	CaTSNP7143	56.34	-	-
552	CaLG1	CaTSNP7298	56.34	-	-
553	CaLG1	CaSNP4530	56.4	-	-
554	CaLG1	CEST171	56.71	scaffold00125	322820
555	CaLG1	CaSNP4132	57.03	scaffold01247	84283
556	CaLG1	CaSNP2270	57.06	9182023	34282
557	CaLG1	CaGMS14	57.19	-	-
558	CaLG1	CaTSNP6106	58.04	-	-
559	CaLG1	CaTSNP8646	58.65	scaffold00397	173164
560	CaLG1	CaTSNP7216	58.74	-	-
561	CaLG1	CaTSNP8046	58.75	-	-
562	CaLG1	CaSNP2024	59.11	scaffold00867	110545
563	CaLG1	CaSNP3849	59.11	-	-
564	CaLG1	CaGMS1195	59.13	-	-
565	CaLG1	CaSNP3851	59.18	scaffold01154	80610
566	CaLG1	CaSNP298	59.28	scaffold00432	160480
567	CaLG1	CaSNP2919	59.41	-	-
568	CaLG1	CaTSNP7404	59.43	-	-
569	CaLG1	CaSNP3592	59.48	scaffold01029	89268
570	CaLG1	CaTSNP8900	59.49	-	-
571	CaLG1	CaTSNP8052	59.56	-	-
572	CaLG1	CaSNP2779	59.57	scaffold00927	107791
573	CaLG1	CaTSNP7091	59.58	-	-
574	CaLG1	CaTSNP8226	59.58	-	-
575	CaLG1	CaTMS893	59.72	-	-

576	CaLG1	CaSNP359	59.89	scaffold00906	98813
577	CaLG1	CaSNP795	59.89	-	-
578	CaLG1	CaSNP1	59.9	scaffold00010	831732
579	CaLG1	CaSNP2647	60.05	scaffold00494	163765
580	CaLG1	CaTSNP7658	60.07	-	-
582	CaLG1	CaSNP446	60.1	9215489	38993
581	CaLG1	CaSNP601	60.1	scaffold00948	101274
583	CaLG1	CaTSNP7637	60.1	-	-
584	CaLG1	CaTSNP8701	60.1	-	-
585	CaLG1	CaTSNP7271	60.17	-	-
586	CaLG1	CaSNP2284	60.24	-	-
587	CaLG1	CaSNP491	60.33	-	-
588	CaLG1	CaTSNP6608	60.33	-	-
589	CaLG1	CaTSNP7515	60.33	-	-
590	CaLG1	CaTSNP8892	60.39	-	-
591	CaLG1	CaTSNP7888	60.46	-	-
592	CaLG1	CaTSNP6927	60.55	-	-
594	CaLG1	CaTSNP7608	60.56	-	-
593	CaLG1	CaTSNP8538	60.56	-	-
595	CaLG1	CaTMS629	60.56	-	-
596	CaLG1	CaSNP536	60.7	9195264	79373
597	CaLG1	CaTSNP7876	60.99	-	-
598	CaLG1	CaSNP796	61.09	scaffold00044	508485
599	CaLG1	CaSNP646	61.23	scaffold00288	202971
600	CaLG1	CaTSNP8286	61.54	-	-
601	CaLG1	CaTSNP7969	61.62	-	-
603	CaLG1	CaTSNP6614	61.64	-	-
602	CaLG1	CaTSNP8807	61.64	-	-
604	CaLG1	CaGMS506	61.65	-	-

605	CaLG1	CaTSNP6597	62.09	-	-
606	CaLG1	CaTSNP7534	62.56	-	-
608	CaLG1	CaTSNP6898	63.07	-	-
607	CaLG1	CaTSNP7115	63.07	-	-
609	CaLG1	CaTSNP8546	63.1	-	-
610	CaLG1	CaTSNP8835	63.11	-	-
612	CaLG1	CaTSNP6703	63.21	-	-
611	CaLG1	CaTSNP8163	63.21	-	-
613	CaLG1	CaTSNP6032	63.23	-	-
614	CaLG1	CaTSNP8268	63.23	-	-
615	CaLG1	CaTSNP6406	63.35	-	-
616	CaLG1	CaTSNP9036	63.51	scaffold00743	127637
617	CaLG1	CaTSNP8369	64.05	-	-
618	CaLG1	CaTSNP8209	64.18	-	-
619	CaLG1	CaTSNP6089	64.18	-	-
620	CaLG1	CaTSNP8842	64.23	-	-
621	CaLG1	CaTSNP8291	64.37	scaffold00642	159021
623	CaLG1	CaTSNP7648	64.76	-	-
622	CaLG1	CaTSNP7878	64.76	-	-
624	CaLG1	CaSNP5042	64.81	scaffold01015	86559
625	CaLG1	CaTSNP6042	64.82	-	-
626	CaLG1	CaTSNP7697	64.85	-	-
627	CaLG1	CaTSNP6043	65.1	-	-
628	CaLG1	CaSNP3072	65.77	scaffold01925	49412
629	CaLG1	CaGMS490	65.87	-	-
630	CaLG1	CaSNP2105	66.23	scaffold00473	177468
632	CaLG1	CaTSNP6171	66.25	-	-
631	CaLG1	CaTSNP7834	66.25	-	-
633	CaLG1	CaSNP4075	66.31	scaffold04744	14000

634	CaLG1	CaSNP3439	66.91	scaffold01744	58555
635	CaLG1	CaTSNP8801	67.26	-	-
636	CaLG1	CaTSNP9058	67.32	-	-
637	CaLG1	CaSNP4196	67.93	scaffold01423	66824
638	CaLG1	CaSNP376	68.47	scaffold00882	110007
639	CaLG1	CaTSNP8352	68.72	-	-
640	CaLG1	CaTSNP8669	68.72	-	-
641	CaLG1	CaTMS687	68.73	-	-
642	CaLG1	CaTSNP8115	68.86	-	-
643	CaLG1	CaSNP4386	68.89	-	-
644	CaLG1	CaSNP3495	69	scaffold01725	61763
645	CaLG1	CaSNP459	69.22	scaffold00101	339983
646	CaLG1	CaSNP490	69.37	scaffold02365	39388
647	CaLG1	CaTMS651	69.44	-	-
648	CaLG1	NCPGR72	69.65	-	-
649	CaLG1	CaTMS864	69.7	-	-
650	CaLG1	CaTSNP8427	69.87	-	-
651	CaLG1	CaTMS868	69.91	-	-
652	CaLG1	CaTSNP6520	69.96	-	-
653	CaLG1	CaTSNP6765	70.09	-	-
654	CaLG1	CaTSNP6348	70.11	-	-
655	CaLG1	CaTSNP6989	70.43	-	-
656	CaLG1	CaSNP405	70.99	-	-
657	CaLG1	CaSNP290	71.52	scaffold02111	55998
658	CaLG1	CaSNP692	71.57	-	-
659	CaLG1	CaSNP93	71.6	-	-
660	CaLG1	CaSNP2127	71.61	scaffold00108	326474
661	CaLG1	CaSNP136	71.62	scaffold00058	425158
662	CaLG1	CaSNP867	71.64	scaffold00176	247024

663	CaLG1	ESNP57	71.64	-	-
664	CaLG1	CaSNP841	71.65	-	-
665	CaLG1	CaTSNP6913	71.7	scaffold01737	55074
667	CaLG1	CaSNP411	71.73	-	-
666	CaLG1	CaSNP888	71.73	scaffold00206	237280
668	CaLG1	CaSNP3037	71.73	-	-
669	CaLG1	CaSNP572	71.73	-	-
670	CaLG1	CaTSNP6054	71.75	9183294	53093
671	CaLG1	CaSNP814	71.75	-	-
672	CaLG1	CaSNP2141	71.77	-	-
673	CaLG1	CaSNP521	71.79	-	-
674	CaLG1	CaSNP2182	71.84	9216120	19923
675	CaLG1	CaTSNP6670	72.06	-	-
676	CaLG1	CaTSNP8866	72.13	-	-
677	CaLG1	CaTSNP8496	72.17	-	-
678	CaLG1	CaTSNP7165	72.18	-	-
679	CaLG1	CaSNP44	72.18	9213651	48209
680	CaLG1	NCPGR65	72.2	-	-
681	CaLG1	CaSNP370	72.24	scaffold00042	458825
682	CaLG1	CaSNP460	72.33	scaffold00461	171341
683	CaLG1	CaTSNP6040	72.34	-	-
684	CaLG1	CaSNP688	72.42	-	-
685	CaLG1	CaSNP65	72.48	-	-
686	CaLG1	CaTSNP8105	72.48	-	-
687	CaLG1	CaTSNP7299	72.65	-	-
688	CaLG1	CaSNP357	72.72	scaffold02681	33820
689	CaLG1	CaTSNP6085	72.74	-	-
690	CaLG1	CaTSNP6065	72.74	-	-
692	CaLG1	CaSNP60	72.76	scaffold04880	13708

691	CaLG1	CaSNP706	72.76	scaffold02029	48661
693	CaLG1	CaSNP116	72.79	scaffold06094	13111
694	CaLG1	CaTSNP7034	72.8	-	-
695	CaLG1	CaTSNP8742	72.8	-	-
696	CaLG1	CaTSNP8929	72.83	-	-
697	CaLG1	CaSNP346	72.85	scaffold00574	158764
698	CaLG1	CaSNP416	72.85	-	-
699	CaLG1	CaTSNP8444	73	-	-
700	CaLG1	CaSNP644	73.01	scaffold00127	309055
701	CaLG1	CaSNP263	73.17	scaffold08854	6444
702	CaLG1	STMS13	73.79	-	-
703	CaLG1	CaTSNP6975	73.97	-	-
704	CaLG1	CaTSNP9023	74.11	-	-
705	CaLG1	CaTSNP6357	74.31	-	-
706	CaLG1	H3A03	74.32	-	-
707	CaLG1	GA11	74.39	-	-
708	CaLG1	CaTSNP8394	74.7	-	-
709	CaLG1	CaTSNP6297	74.71	-	-
710	CaLG1	CaTSNP8655	74.74	-	-
711	CaLG1	CaTSNP8717	74.74	-	-
712	CaLG1	CaTSNP8688	74.83	-	-
713	CaLG1	CaTSNP8651	74.9	-	-
714	CaLG1	CaTSNP7331	74.91	-	-
715	CaLG1	CaTSNP6784	74.95	-	-
716	CaLG1	CaTSNP7169	74.96	-	-
717	CaLG1	CaTSNP7624	74.98	-	-
718	CaLG1	CaTSNP7578	75.12	-	-
719	CaLG1	CaTSNP7275	75.12	scaffold01143	79342
720	CaLG1	CaSNP2653	75.71	scaffold00269	207605

721	CaLG1	CaTSNP6332	76.47	-	-
722	CaLG1	CaTSNP7937	77.06	-	-
724	CaLG1	CaSNP2064	77.07	9192909	46130
723	CaLG1	CaSNP5050	77.07	-	-
725	CaLG1	CaTSNP6704	77.08	-	-
726	CaLG1	CaTSNP8047	77.08	-	-
727	CaLG1	CaTSNP6840	77.11	-	-
728	CaLG1	CaTSNP8171	77.12	-	-
729	CaLG1	CaTSNP8069	77.35	-	-
731	CaLG1	CaTSNP8113	77.35	-	-
730	CaLG1	CaTSNP8295	77.35	-	-
732	CaLG1	CaTSNP7236	77.41	-	-
733	CaLG1	CaTSNP8839	77.85	-	-
734	CaLG1	CaTSNP8588	77.95	-	-
735	CaLG1	CaTSNP8125	78.08	-	-
736	CaLG1	CaTSNP7715	78.26	-	-
737	CaLG1	CaTSNP6371	78.3	-	-
738	CaLG1	CaTSNP8012	78.43	-	-
739	CaLG1	CaTSNP8573	78.46	-	-
740	CaLG1	CaTSNP7054	78.53	-	-
741	CaLG1	CaTSNP6469	78.57	-	-
742	CaLG1	CaSNP2343	78.63	scaffold00028	567099
743	CaLG1	CaTSNP6908	78.63	-	-
744	CaLG1	CaTSNP8029	78.67	scaffold03447	23536
745	CaLG1	CaTSNP7214	78.68	-	-
746	CaLG1	CaTSNP7388	78.68	-	-
747	CaLG1	CaTSNP7413	78.69	-	-
748	CaLG1	CaTSNP6417	78.71	scaffold12870	2989
749	CaLG1	CaTSNP7896	78.71	-	-

751	CaLG1	CaTSNP7867	78.73	-	-
752	CaLG1	CaTSNP8639	78.73	-	-
750	CaLG1	CaTSNP8749	78.73	9206673	29807
753	CaLG1	CaTSNP9110	78.73	-	-
754	CaLG1	CaTSNP6875	78.73	-	-
755	CaLG1	CaTSNP8258	78.75	-	-
756	CaLG1	CaTSNP8980	78.76	-	-
757	CaLG1	CaSNP2364	78.78	scaffold01072	83605
758	CaLG1	CaTSNP9028	78.78	-	-
759	CaLG1	CaTSNP6183	78.81	-	-
760	CaLG1	CaSNP5094	78.82	scaffold01701	55366
761	CaLG1	CaSNP2145	78.84	scaffold00105	327204
762	CaLG1	CaTSNP7727	78.88	-	-
763	CaLG1	CaSNP4929	78.88	9211483	26729
764	CaLG1	CaSNP2427	78.92	scaffold00483	157850
765	CaLG1	CaTSNP7119	78.97	-	-
766	CaLG1	CaTSNP7906	78.99	-	-
767	CaLG1	CaTSNP8162	78.99	-	-
768	CaLG1	CaTSNP8189	79.02	-	-
769	CaLG1	CaSNP3291	79.03	-	-
770	CaLG1	CaTSNP6253	79.07	-	-
771	CaLG1	CaTSNP7805	79.17	-	-
772	CaLG1	CaTSNP8571	79.17	-	-
773	CaLG1	CaTSNP8176	79.36	-	-
774	CaLG1	CaGMS232	83.67	-	-
775	CaLG1	CaTMS884	85.13	-	-
776	CaLG1	TA113	90.04	-	-
777	CaLG1	NCPGR109	90.32	-	-
778	CaLG1	NCPGR136	98.8	scaffold04070	18154

779	CaLG2	PIP140	0	-	-
780	CaLG2	CESSR47	1.494	scaffold00079	413662
781	CaLG2	TS52	4.093	-	-
782	CaLG2	CESSR172	12.22	scaffold00201	233654
783	CaLG2	CaTMS709	14.77	-	-
784	CaLG2	CaGMS1278	15.26	-	-
785	CaLG2	PIP107	15.59	-	-
786	CaLG2	CEST102	20.13	-	-
787	CaLG2	GAA60	22.71	-	-
788	CaLG2	CaGMS1287	23.97	-	-
789	CaLG2	CaTMS1053	26.24	-	-
790	CaLG2	CaTMS590	28.97	-	-
791	CaLG2	CESSR72	29.52	scaffold02021	47550
792	CaLG2	CaTMS541	30.86	-	-
793	CaLG2	NCPGR188	34.35	-	-
794	CaLG2	TR19	36.33	-	-
795	CaLG2	CaTMS716	36.69	-	-
796	CaLG2	CaGMS485	37.77	-	-
797	CaLG2	CaSNP3540	38.7	scaffold01906	62199
798	CaLG2	PIP65	39.1	-	-
799	CaLG2	CaGMS4	44.07	-	-
800	CaLG2	CaTMS704	44.7	-	-
801	CaLG2	CaTSNP6162	46.55	scaffold01827	54392
802	CaLG2	CaTSNP6329	46.59	-	-
803	CaLG2	CaTSNP7375	46.61	scaffold00190	230696
804	CaLG2	CaTSNP6648	46.68	-	-
805	CaLG2	CaTSNP7316	46.76	scaffold00020	631783
806	CaLG2	CaSNP4617	46.83	-	-
807	CaLG2	CaTSNP8331	46.86	-	-

808	CaLG2	CaGMS41	46.9	-	-
809	CaLG2	CaTSNP7964	46.94	scaffold00358	193401
810	CaLG2	CaTSNP7683	47.08	-	-
811	CaLG2	CaTSNP8898	47.68	-	-
812	CaLG2	CaSNP2540	47.7	-	-
813	CaLG2	CaTSNP7347	47.89	-	-
814	CaLG2	CaTSNP7000	47.9	-	-
815	CaLG2	CaTMS712	48.28	-	-
816	CaLG2	CaSNP2451	48.47	-	-
817	CaLG2	CaTSNP6629	48.55	-	-
818	CaLG2	CaSNP2781	48.62	-	-
819	CaLG2	CaTSNP8013	48.73	-	-
820	CaLG2	CaSNP2334	48.76	-	-
821	CaLG2	CaTSNP7687	49.03	-	-
822	CaLG2	CaTSNP6791	49.92	-	-
823	CaLG2	CaTMS750	50.36	-	-
824	CaLG2	CaTSNP7156	50.39	-	-
825	CaLG2	CaTSNP8786	50.4	-	-
826	CaLG2	CaTSNP7885	50.42	-	-
827	CaLG2	CaTSNP6227	50.5	-	-
828	CaLG2	GA6	50.54	-	-
829	CaLG2	GA16	50.83	-	-
830	CaLG2	CaTSNP8865	51.02	-	-
831	CaLG2	CaTMS529	51.15	-	-
832	CaLG2	CaSNP2025	51.21	-	-
833	CaLG2	CaSNP5112	51.3	-	-
834	CaLG2	CaTSNP8188	51.34	scaffold00569	131431
835	CaLG2	CaTSNP7371	51.4	scaffold09348	4841
836	CaLG2	CaTSNP8477	51.41	-	-

837	CaLG2	CaTSNP8454	51.42	-	-
838	CaLG2	CaTSNP6664	51.43	-	-
839	CaLG2	CaTSNP6546	51.78	-	-
840	CaLG2	CaTSNP6517	51.81	9211514	67152
841	CaLG2	CaSNP419	52.19	-	-
842	CaLG2	CaSNP873	52.31	-	-
843	CaLG2	CaSNP781	52.37	-	-
844	CaLG2	NCPGR144	52.51	-	-
845	CaLG2	CaTSNP7439	52.59	-	-
846	CaLG2	CaSNP470	52.63	scaffold01561	72078
847	CaLG2	NCPGR194	52.7	-	-
848	CaLG2	ESNP61	53.48	9160172	17105
849	CaLG2	ESNP39	53.56	-	-
850	CaLG2	CaSNP254	53.73	-	-
851	CaLG2	CaTMS548	54.06	-	-
852	CaLG2	CaTSNP7795	54.14	-	-
853	CaLG2	CaTSNP8609	54.22	-	-
854	CaLG2	CaSNP344	54.24	-	-
855	CaLG2	CaTSNP7098	54.35	-	-
856	CaLG2	CaTSNP6624	54.51	-	-
857	CaLG2	CaTSNP6636	54.51	-	-
858	CaLG2	CaTSNP7963	54.51	-	-
859	CaLG2	CaTSNP8952	54.51	-	-
860	CaLG2	CaTSNP6862	54.54	-	-
861	CaLG2	CaTSNP7499	54.65	scaffold03386	26714
862	CaLG2	CaTSNP7814	54.65	-	-
863	CaLG2	CaTSNP8825	54.65	scaffold06838	7702
864	CaLG2	CaTSNP8850	54.67	-	-
865	CaLG2	CaTSNP6662	54.85	9091072	33977

866	CaLG2	CaSNP146	55.16	scaffold02466	41024
867	CaLG2	CaTSNP9034	55.21	scaffold00380	185313
868	CaLG2	CaSNP4419	55.21	-	-
869	CaLG2	CaSNP3891	55.22	scaffold05309	11579
870	CaLG2	CaSNP2687	55.36	-	-
871	CaLG2	CaSNP2698	55.39	scaffold00344	195976
872	CaLG2	CaSNP3067	55.39	9208404	23522
873	CaLG2	CaSNP5109	55.39	scaffold00877	163450
874	CaLG2	CaSNP4788	55.42	scaffold02162	46365
875	CaLG2	CaSNP2954	55.43	scaffold01555	73618
876	CaLG2	CaSNP4333	55.55	scaffold04333	27019
877	CaLG2	CaSNP3367	55.57	scaffold00742	128830
878	CaLG2	CaSNP4042	55.57	-	-
879	CaLG2	CaSNP4380	55.61	scaffold01431	76712
880	CaLG2	CaSNP4491	55.61	scaffold01826	52310
881	CaLG2	CaSNP5096	55.63	-	-
882	CaLG2	CaSNP4456	55.65	scaffold02698	33610
883	CaLG2	CaSNP2495	55.66	scaffold00295	212852
884	CaLG2	CaSNP3047	55.66	scaffold01688	83777
885	CaLG2	CaSNP4712	55.72	9207296	8740
886	CaLG2	CaTSNP7826	55.98	-	-
887	CaLG2	CaSNP466	56.05	-	-
888	CaLG2	CaTSNP6415	56.24	scaffold02429	50037
889	CaLG2	CaTSNP7998	56.35	scaffold00601	143281
890	CaLG2	CaTSNP8857	56.35	-	-
891	CaLG2	CaTSNP7609	56.42	scaffold02301	65565
892	CaLG2	CaTSNP6789	56.46	scaffold00990	91157
893	CaLG2	CaTSNP6362	56.56	scaffold01506	64261
894	CaLG2	CaTSNP6482	56.57	-	-

895	CaLG2	CaTSNP6759	56.57	-	-
896	CaLG2	CaTSNP6547	56.57	scaffold00083	405373
897	CaLG2	CaTSNP7873	56.57	-	-
898	CaLG2	CaSNP595	56.64	-	-
899	CaLG2	CaSNP16	56.67	-	-
900	CaLG2	CaSNP177	56.67	-	-
901	CaLG2	CaSNP4951	56.68	-	-
902	CaLG2	CaSNP4274	56.8	-	-
903	CaLG2	CaSNP2120	56.83	scaffold00084	372744
904	CaLG2	CaSNP2235	56.83	-	-
905	CaLG2	CaSNP4592	56.84	-	-
906	CaLG2	CaSNP2868	56.86	scaffold00929	105004
907	CaLG2	CaSNP3964	56.91	scaffold02603	50891
908	CaLG2	CaSNP2136	57.07	9204064	37946
909	CaLG2	CaTSNP6742	57.08	scaffold01390	77364
910	CaLG2	CaTSNP8507	57.08	-	-
911	CaLG2	CaSNP2764	57.08	-	-
912	CaLG2	CaSNP3420	57.08	-	-
913	CaLG2	CaSNP2211	57.08	-	-
914	CaLG2	CaSNP2655	57.08	scaffold01524	76861
915	CaLG2	CaSNP2685	57.08	scaffold00772	118821
916	CaLG2	CaSNP4275	57.08	scaffold02631	37277
917	CaLG2	CaSNP4428	57.08	scaffold01814	76422
918	CaLG2	CaSNP4738	57.08	scaffold00864	103529
919	CaLG2	CaSNP5085	57.08	scaffold02465	37348
920	CaLG2	CaSNP2849	57.09	scaffold01898	50287
921	CaLG2	CaSNP4010	57.09	9214878	18604
922	CaLG2	CaSNP5002	57.09	scaffold01753	75008
923	CaLG2	CaTSNP6285	57.27	-	-

924	CaLG2	CaTSNP8353	57.28	scaffold01520	89834
925	CaLG2	CaTSNP7315	57.3	scaffold00281	209277
926	CaLG2	CaTSNP8091	57.3	9168576	41973
927	CaLG2	CaTSNP7778	57.3	scaffold11668	3468
928	CaLG2	CaTSNP8455	57.32	-	-
929	CaLG2	CaTSNP6369	57.34	scaffold00937	124829
930	CaLG2	CaTSNP6356	57.36	scaffold00900	110653
931	CaLG2	CaTSNP6839	57.36	scaffold03558	27965
932	CaLG2	CaTSNP7339	57.36	scaffold04460	15562
933	CaLG2	CaTSNP6127	57.44	scaffold00653	133710
934	CaLG2	CaTSNP8405	57.44	scaffold00902	114212
935	CaLG2	CaTSNP8534	57.44	-	-
936	CaLG2	CaTSNP7791	57.45	scaffold01414	77535
937	CaLG2	CaTSNP8354	57.46	-	-
938	CaLG2	CaTSNP6933	57.51	scaffold00829	106051
939	CaLG2	CaTSNP8131	57.51	scaffold01421	87927
940	CaLG2	CaTSNP6494	57.55	scaffold01370	90389
941	CaLG2	CaTSNP8420	57.55	scaffold01775	58796
942	CaLG2	CaTSNP7626	57.57	-	-
943	CaLG2	CaTSNP9132	57.57	scaffold01845	55752
944	CaLG2	CaSNP765	57.94	-	-
945	CaLG2	CaSNP3500	58.02	-	-
946	CaLG2	CaSNP2386	58.04	-	-
947	CaLG2	CaSNP3022	58.04	-	-
948	CaLG2	CaSNP3027	58.04	-	-
949	CaLG2	CaSNP3049	58.04	scaffold02651	57307
950	CaLG2	CaSNP3651	58.04	scaffold01054	108530
951	CaLG2	CaSNP2782	58.05	-	-
952	CaLG2	CaSNP3205	58.06	scaffold00942	123512

953	CaLG2	CaSNP4126	58.06	-	-
954	CaLG2	CaSNP2579	58.08	-	-
955	CaLG2	CaSNP2865	58.11	scaffold01109	94013
956	CaLG2	CaSNP2029	58.13	scaffold01410	67080
957	CaLG2	CaSNP4268	58.19	scaffold01010	110578
958	CaLG2	CaGMS22	58.21	-	-
959	CaLG2	CaSNP2903	58.23	-	-
960	CaLG2	CaSNP3889	58.24	scaffold05217	11937
961	CaLG2	CaSNP2819	58.25	scaffold02364	40302
962	CaLG2	CaSNP3511	58.25	scaffold06459	8466
963	CaLG2	CaSNP3669	58.27	scaffold01396	74826
964	CaLG2	CaTSNP6942	58.28	scaffold11575	3503
965	CaLG2	CaSNP3127	58.28	scaffold01080	90871
966	CaLG2	CaSNP3158	58.28	scaffold01762	55575
967	CaLG2	CaSNP3778	58.28	-	-
968	CaLG2	CaSNP4908	58.28	-	-
969	CaLG2	CaSNP1965	58.32	-	-
970	CaLG2	CaSNP4729	58.33	9202205	6408
971	CaLG2	CaSNP4621	58.4	scaffold02685	44519
972	CaLG2	CaTSNP7265	58.41	9214224	27810
973	CaLG2	CaSNP4321	58.47	scaffold01501	71369
974	CaLG2	CaSNP3639	58.48	scaffold02147	46180
975	CaLG2	CaSNP2796	58.49	-	-
976	CaLG2	CaSNP832	58.49	scaffold00389	190458
977	CaLG2	CaSNP2812	58.49	-	-
978	CaLG2	CaSNP2975	58.49	scaffold01488	70489
979	CaLG2	CaSNP4337	58.52	scaffold03513	27552
980	CaLG2	CaSNP1962	58.52	-	-
981	CaLG2	CaTSNP8210	58.53	-	-

982	CaLG2	CaSNP3782	58.55	-	-
983	CaLG2	CaSNP2593	58.56	scaffold01273	73147
984	CaLG2	CaSNP2861	58.56	scaffold00926	99393
985	CaLG2	CaSNP2154	58.57	scaffold00810	123788
986	CaLG2	CaSNP4361	58.58	scaffold00732	131847
987	CaLG2	CaSNP4313	58.58	scaffold02772	35352
988	CaLG2	CaSNP4956	58.58	scaffold01990	58388
989	CaLG2	CaSNP3214	58.59	scaffold02051	50820
990	CaLG2	CaSNP4020	58.6	scaffold00651	136422
991	CaLG2	CaSNP2373	58.6	scaffold08318	5809
992	CaLG2	CaSNP4976	58.6	scaffold00613	166579
993	CaLG2	CaTSNP6518	58.6	scaffold00381	188287
994	CaLG2	CaSNP2985	58.6	9207929	10725
995	CaLG2	CaSNP3837	58.6	scaffold03113	37295
996	CaLG2	CaSNP4497	58.6	scaffold01936	70050
997	CaLG2	CaSNP2224	58.6	scaffold00386	187167
998	CaLG2	CaSNP2452	58.61	scaffold00974	89938
999	CaLG2	CaSNP3410	58.61	scaffold02087	47463
1000	CaLG2	CaSNP4163	58.61	-	-
1001	CaLG2	CaSNP2854	58.61	scaffold01610	91977
1002	CaLG2	CaSNP2886	58.61	9203293	8077
1003	CaLG2	CaSNP3128	58.61	-	-
1004	CaLG2	CaSNP3388	58.61	scaffold01272	81011
1005	CaLG2	CaSNP3450	58.61	9208727	25395
1006	CaLG2	CaSNP3489	58.61	scaffold01495	79032
1007	CaLG2	CaSNP3733	58.61	scaffold00722	148194
1008	CaLG2	CaSNP3734	58.61	scaffold03016	30887
1009	CaLG2	CaSNP3749	58.61	scaffold01211	83533
1010	CaLG2	CaSNP3820	58.61	scaffold02026	55900

1011	CaLG2	CaSNP3829	58.61	scaffold03457	28279
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1013	CaLG2	CaSNP3966	58.61	scaffold02036	57564
1014	CaLG2	CaSNP3998	58.61	scaffold01954	59074
1015	CaLG2	CaSNP4233	58.61	scaffold07383	6868
1016	CaLG2	CaSNP4949	58.61	scaffold02985	35827
1017	CaLG2	CaSNP5025	58.61	scaffold01602	88678
1018	CaLG2	CaSNP5140	58.61	scaffold01793	72217
1019	CaLG2	CaSNP4524	58.61	-	-
1020	CaLG2	CaSNP4448	58.61	-	-
1021	CaLG2	CaSNP4463	58.61	scaffold00833	122404
1022	CaLG2	CaSNP3220	58.61	9210230	29149
1023	CaLG2	CaSNP4195	58.61	9150399	17674
1024	CaLG2	CaSNP4088	58.62	scaffold03133	35271
1025	CaLG2	CaSNP2696	58.62	scaffold01009	100768
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1027	CaLG2	CaSNP3554	58.62	scaffold02661	46960
1028	CaLG2	CaSNP4309	58.62	scaffold02149	48373
1029	CaLG2	CaSNP4678	58.62	scaffold01988	47640
1030	CaLG2	CaSNP5108	58.62	scaffold02633	57316
1031	CaLG2	CaSNP3914	58.62	scaffold02514	37864
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1033	CaLG2	CaSNP3242	58.62	scaffold02334	39477
1034	CaLG2	CaSNP3327	58.63	scaffold02599	51206
1035	CaLG2	CaSNP4611	58.63	scaffold03671	30091
1036	CaLG2	CaSNP3175	58.64	scaffold01145	79602
1037	CaLG2	CaSNP3681	58.64	-	-
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1040	CaLG2	CaSNP2243	58.64	scaffold05174	16461
1041	CaLG2	CaSNP2302	58.64	scaffold01092	94150
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1043	CaLG2	CaSNP2649	58.64	scaffold00638	132413
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1046	CaLG2	CaSNP4240	58.64	scaffold03450	34372
1047	CaLG2	CaSNP4775	58.65	scaffold02724	43366
1048	CaLG2	CaSNP2349	58.65	scaffold01930	57039
1049	CaLG2	CaSNP2377	58.65	scaffold04317	16519
1050	CaLG2	CaSNP2415	58.65	scaffold00887	99818
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1054	CaLG2	CaSNP2866	58.65	scaffold02060	45309
1055	CaLG2	CaSNP2885	58.65	scaffold04005	18919
1056	CaLG2	CaSNP2939	58.65	scaffold02463	52796
1057	CaLG2	CaSNP3006	58.65	scaffold01712	63646
1058	CaLG2	CaSNP3094	58.65	-	-
1059	CaLG2	CaSNP3169	58.65	scaffold03069	42156
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1062	CaLG2	CaSNP3686	58.65	scaffold01811	64843
1063	CaLG2	CaSNP3748	58.65	scaffold02214	48587
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1065	CaLG2	CaSNP3866	58.65	scaffold02276	54842
1066	CaLG2	CaSNP3913	58.65	scaffold02174	70968
1067	CaLG2	CaSNP3974	58.65	scaffold02125	48811
1068	CaLG2	CaSNP4145	58.65	scaffold01699	58892

1069	CaLG2	CaSNP4436	58.65	scaffold03894	26378
1070	CaLG2	CaSNP4650	58.65	scaffold01784	62708
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1072	CaLG2	CaSNP4716	58.65	scaffold01934	62098
1073	CaLG2	CaSNP4853	58.65	scaffold02953	35824
1074	CaLG2	CaSNP4875	58.65	scaffold04121	24989
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1076	CaLG2	CaSNP3322	58.66	scaffold01810	61662
1077	CaLG2	CaSNP3922	58.66	scaffold00250	240966
1078	CaLG2	CaSNP4884	58.66	-	-
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1081	CaLG2	CaSNP5044	58.67	scaffold00464	164109
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1083	CaLG2	CaSNP2872	58.68	scaffold00327	218716
1084	CaLG2	CaSNP4726	58.69	9214491	11648
1085	CaLG2	CaSNP3735	58.69	scaffold00724	138407
1086	CaLG2	CaSNP4687	58.69	scaffold02168	54588
1087	CaLG2	CaSNP3840	58.7	scaffold01960	83839
1088	CaLG2	CaSNP3145	58.71	scaffold00845	121098
1089	CaLG2	CaTSNP8654	58.76	9213328	38531
1090	CaLG2	CaTSNP8565	58.77	scaffold00679	122739
1091	CaLG2	CaTSNP7304	58.82	-	-
1092	CaLG2	CaTSNP6734	58.83	-	-
1093	CaLG2	CaTSNP8370	58.85	-	-
1094	CaLG2	CaTSNP6427	58.88	-	-
1095	CaLG2	CaTSNP8888	58.89	scaffold00378	177803
1096	CaLG2	CaTSNP8705	58.91	9210152	46523
1097	CaLG2	CaSNP4183	58.93	-	-

1098	CaLG2	CaSNP4403	58.97	scaffold07524	6665
1099	CaLG2	CaTSNP7574	59.01	-	-
1100	CaLG2	CaTSNP6830	59.01	9204284	10242
1101	CaLG2	CaTSNP7230	59.01	scaffold00147	270449
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1103	CaLG2	CaSNP5120	59.03	-	-
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1105	CaLG2	CaSNP2307	59.21	scaffold00797	118648
1106	CaLG2	CaSNP2570	59.21	scaffold01303	74281
1107	CaLG2	CaSNP2605	59.21	scaffold08384	5717
1108	CaLG2	CaSNP4406	59.21	-	-
1109	CaLG2	CaSNP4477	59.21	scaffold02539	37686
1110	CaLG2	CaSNP3520	59.22	-	-
1111	CaLG2	CaSNP2770	59.35	-	-
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1113	CaLG2	CaTSNP8021	60.63	scaffold02009	52200
1114	CaLG2	CaTSNP6904	60.75	scaffold00967	91303
1115	CaLG2	CaTSNP7407	60.9	scaffold00065	424690
1116	CaLG2	CaTSNP6865	61.8	9205238	38231
1117	CaLG2	CaTSNP6809	61.84	-	-
1118	CaLG2	CaTSNP7204	61.84	-	-
1119	CaLG2	CaTSNP8020	61.84	9188703	40817
1120	CaLG2	CaTSNP7991	61.89	-	-
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1122	CaLG2	CaSNP2733	62.25	-	-
1123	CaLG2	CaSNP2491	62.62	-	-
1124	CaLG2	CaSNP3627	62.62	scaffold01625	68619
1125	CaLG2	CaSNP2014	62.63	9211308	26366
1126	CaLG2	CaSNP2658	62.65	scaffold01071	92185

1127	CaLG2	CaSNP3785	62.78	9212018	33346
1128	CaLG2	CaSNP4591	63.12	scaffold03807	25440
1129	CaLG2	CaSNP2005	63.2	-	-
1130	CaLG2	CaTSNP6852	63.28	-	-
1131	CaLG2	CaTSNP7988	63.32	-	-
1132	CaLG2	CaTSNP6471	63.32	scaffold00523	155590
1133	CaLG2	CaTSNP6996	63.33	-	-
1134	CaLG2	CaTSNP8649	63.35	-	-
1135	CaLG2	CaSNP2475	63.36	scaffold01245	76093
1136	CaLG2	CaTSNP7385	63.38	-	-
1137	CaLG2	CaTSNP7403	63.51	-	-
1138	CaLG2	CaTSNP6429	63.59	9136476	31082
1139	CaLG2	CaSNP3406	63.7	scaffold02902	32344
1140	CaLG2	CaSNP3545	63.77	scaffold01963	58479
1141	CaLG2	CaSNP3617	63.77	-	-
1142	CaLG2	CaSNP4122	63.78	9216043	25058
1143	CaLG2	CaSNP2180	63.8	-	-
1144	CaLG2	CaSNP4661	63.8	scaffold01716	86754
1145	CaLG2	CaSNP4749	63.8	scaffold00715	130584
1146	CaLG2	CaSNP5093	63.8	-	-
1147	CaLG2	CaTSNP7324	63.88	scaffold00248	220230
1148	CaLG2	CaSNP94	63.91	scaffold02326	39542
1149	CaLG2	CaSNP429	63.93	scaffold00870	107691
1150	CaLG2	CaTSNP8452	63.97	-	-
1151	CaLG2	CaTSNP7538	63.98	9202122	32194
1152	CaLG2	CaSNP464	63.99	scaffold01078	103319
1153	CaLG2	CaTSNP8339	64	-	-
1154	CaLG2	CaTSNP7146	64.01	-	-
1155	CaLG2	CaSNP4803	64.03	scaffold03086	34574

1156	CaLG2	CaTSNP6761	64.06	9174575	22591
1157	CaLG2	CaSNP3825	64.12	scaffold03714	30792
1158	CaLG2	CaSNP108	64.18	scaffold01267	75927
1159	CaLG2	CaSNP4869	64.18	scaffold01526	77602
1160	CaLG2	CaSNP760	64.2	9200809	30890
1161	CaLG2	CaSNP4512	64.21	scaffold03521	24646
1162	CaLG2	CaSNP4860	64.21	scaffold00872	104613
1163	CaLG2	CaSNP5086	64.22	scaffold01241	76570
1164	CaLG2	CaSNP5016	64.22	scaffold03135	34668
1165	CaLG2	CaSNP2289	64.24	scaffold00151	287069
1166	CaLG2	CaTSNP6103	64.26	-	-
1167	CaLG2	CaTSNP6982	64.26	-	-
1168	CaLG2	CaTSNP6269	64.29	scaffold01118	84319
1169	CaLG2	CaTSNP9080	64.29	-	-
1170	CaLG2	CaTSNP7045	64.3	-	-
1171	CaLG2	CaTSNP8088	64.32	-	-
1172	CaLG2	CaTSNP7361	64.33	-	-
1173	CaLG2	CaTSNP8175	64.35	9215035	5864
1174	CaLG2	CaSNP2679	64.38	-	-
1175	CaLG2	CaSNP2810	64.39	-	-
1176	CaLG2	CaTSNP7757	64.42	-	-
1177	CaLG2	CaTSNP6394	64.46	-	-
1178	CaLG2	CaSNP3462	64.56	-	-
1179	CaLG2	CaTSNP9099	64.56	-	-
1180	CaLG2	CaSNP3278	64.66	-	-
1181	CaLG2	CaTSNP6833	64.66	-	-
1182	CaLG2	CaGMS1125	64.66	-	-
1183	CaLG2	CaTSNP6092	64.68	-	-
1184	CaLG2	CaTSNP7497	64.68	-	-

1185	CaLG2	CaTSNP7458	64.71	9211629	23453
1186	CaLG2	CaTSNP8855	64.74	scaffold00696	116706
1187	CaLG2	CaSNP2308	64.75	-	-
1188	CaLG2	CaSNP3243	64.76	-	-
1189	CaLG2	CaSNP3986	64.78	-	-
1190	CaLG2	CaSNP2012	64.82	-	-
1191	CaLG2	CaSNP496	64.83	scaffold03143	52730
1192	CaLG2	CaSNP2169	64.83	-	-
1193	CaLG2	CaSNP2905	64.86	-	-
1194	CaLG2	CaSNP4649	64.91	-	-
1195	CaLG2	CaTSNP8516	64.92	-	-
1196	CaLG2	CaSNP3658	64.93	scaffold00917	122398
1197	CaLG2	CaTSNP6188	64.94	scaffold01491	65451
1198	CaLG2	CaSNP2510	64.97	scaffold04771	13869
1199	CaLG2	CaSNP2673	65.08	-	-
1200	CaLG2	CaTSNP8015	65.08	scaffold00503	155389
1201	CaLG2	CaTSNP6316	65.1	scaffold02048	45584
1202	CaLG2	CaTSNP7601	65.11	scaffold00801	107945
1203	CaLG2	CaSNP3756	65.11	-	-
1204	CaLG2	CaTSNP6271	65.12	-	-
1205	CaLG2	CaTSNP6714	65.37	scaffold03206	26978
1206	CaLG2	CaTSNP8782	65.38	-	-
1207	CaLG2	CaSNP3589	65.64	9209697	17729
1208	CaLG2	CaSNP2340	65.79	scaffold01207	77775
1209	CaLG2	CaSNP2902	65.82	scaffold01992	55458
1210	CaLG2	CaSNP666	65.9	scaffold00849	99257
1211	CaLG2	CaSNP695	66.03	scaffold01736	69974
1212	CaLG2	CaSNP2577	66.1	scaffold00915	97777
1213	CaLG2	CaTMS871	66.37	-	-

1214	CaLG2	CaSNP804	66.88	scaffold00856	110050
1215	CaLG2	CaGMS26	67.09	-	-
1216	CaLG2	CaSNP889	67.29	scaffold00573	133805
1217	CaLG2	CaSNP3736	67.73	scaffold05121	12312
1218	CaLG2	CaSNP3842	67.74	scaffold02590	50502
1219	CaLG2	CaTSNP7905	67.74	scaffold03283	25663
1220	CaLG2	CaTSNP6687	67.82	scaffold02061	45326
1221	CaLG2	H2B061	67.83	-	-
1222	CaLG2	TA59	68.17	-	-
1223	CaLG2	TA27	68.42	-	-
1224	CaLG2	NCPGR193	68.48	scaffold04071	27490
1225	CaLG2	CaSNP3020	68.55	scaffold00958	98449
1226	CaLG2	TA96	68.59	-	-
1227	CaLG2	CaSNP87	68.77	scaffold00119	316585
1228	CaLG2	CaSNP895	68.77	9213592	24260
1229	CaLG2	CaSNP4535	68.81	scaffold00203	232623
1230	CaLG2	CaSNP648	68.84	scaffold01263	93576
1231	CaLG2	CaSNP3973	69.01	scaffold02843	38950
1232	CaLG2	CaSNP237	69.09	scaffold00264	211873
1233	CaLG2	CaSNP347	69.13	scaffold00072	419544
1234	CaLG2	CaSNP2901	69.27	scaffold01293	74743
1235	CaLG2	CaSNP3944	69.27	scaffold00843	113304
1236	CaLG2	CaTSNP7690	69.28	-	-
1237	CaLG2	CaTSNP8994	69.28	-	-
1238	CaLG2	CaSNP3661	69.32	-	-
1239	CaLG2	TS82	69.56	-	-
1240	CaLG2	TA37	69.86	-	-
1241	CaLG2	TAA60	70.15	-	-
1242	CaLG2	CaSNP4537	70.8	scaffold02987	29314

1243	CaLG2	TR58	70.81	-	-
1244	CaLG2	Foc4	70.93	-	-
1245	CaLG2	CaSNP584	70.93	-	-
1246	CaLG2	CaTSNP7704	70.94	scaffold00129	306331
1247	CaLG2	Foc5	71.02	-	-
1248	CaLG2	CaSNP2982	71.12	scaffold01839	55246
1249	CaLG2	CaTSNP9045	71.13	-	-
1250	CaLG2	CaTSNP7077	71.16	-	-
1251	CaLG2	CaTSNP8524	71.16	-	-
1252	CaLG2	CaSNP110	71.16	-	-
1253	CaLG2	ESNP52	71.16	-	-
1254	CaLG2	CaSNP2791	71.19	-	-
1255	CaLG2	CaTSNP9102	71.2	-	-
1256	CaLG2	CaTSNP8179	71.2	-	-
1257	CaLG2	ESNP3	71.25	-	-
1258	CaLG2	CaTSNP8579	71.28	scaffold01084	98083
1259	CaLG2	ESNP49	71.31	-	-
1260	CaLG2	CaSNP323	72.05	-	-
1261	CaLG2	CaSNP4277	72.07	scaffold02547	44016
1262	CaLG2	CaSNP4171	72.1	-	-
1263	CaLG2	CaTSNP6978	72.78	scaffold00155	267491
1264	CaLG2	CaTSNP8111	72.78	-	-
1265	CaLG2	CaTSNP7325	72.81	-	-
1266	CaLG2	CaSNP3363	72.86	scaffold00932	112565
1267	CaLG2	CaSNP2378	72.89	scaffold01095	83860
1268	CaLG2	CaTSNP7501	72.91	-	-
1269	CaLG2	CaTSNP8931	72.91	-	-
1270	CaLG2	CaSNP884	72.93	-	-
1271	CaLG2	CaSNP2228	72.93	scaffold00158	297206

1272	CaLG2	CaTSNP7706	72.94	scaffold00858	111867
1273	CaLG2	CaSNP434	73.03	-	-
1274	CaLG2	CaSNP2193	73.08	-	-
1275	CaLG2	CaTSNP7765	73.19	scaffold01409	81178
1276	CaLG2	CaSNP244	73.81	-	-
1277	CaLG2	CaTSNP7010	74.08	-	-
1278	CaLG2	CaTSNP6519	74.1	-	-
1279	CaLG2	CaSNP615	74.15	scaffold00468	157100
1280	CaLG2	CaSNP103	74.15	-	-
1281	CaLG2	CaSNP4589	74.19	scaffold02749	34179
1282	CaLG2	CESSR73	74.38	scaffold03638	32912
1283	CaLG2	CaTSNP8041	74.46	-	-
1284	CaLG2	CaSNP5040	74.46	scaffold00415	173483
1285	CaLG2	CaTSNP8126	74.48	-	-
1286	CaLG2	CaTSNP8474	74.52	-	-
1287	CaLG2	CaTSNP7936	74.54	-	-
1288	CaLG2	CaTSNP9145	74.54	-	-
1289	CaLG2	CaSNP650	74.67	-	-
1290	CaLG2	CaTMS759	74.67	-	-
1291	CaLG2	ESNP66	74.74	-	-
1292	CaLG2	CaSNP352	74.83	-	-
1293	CaLG2	CaSNP204	74.87	-	-
1294	CaLG2	CaSNP2711	74.95	9210014	28141
1295	CaLG2	CaSNP223	75.07	-	-
1296	CaLG2	CaSNP2780	75.27	scaffold00532	145998
1297	CaLG2	CaSNP2664	75.36	-	-
1298	CaLG2	CaSNP142	75.43	-	-
1299	CaLG2	CaSNP455	75.5	scaffold00986	94331
1300	CaLG2	CaSNP202	75.52	-	-

1301	CaLG2	CaSNP2063	75.75	-	-
1302	CaLG2	CaTSNP8580	75.78	-	-
1303	CaLG2	CaTSNP6866	76.06	-	-
1304	CaLG2	CaTSNP8065	76.2	scaffold00061	425424
1305	CaLG2	CaSNP3412	76.44	scaffold04430	25049
1306	CaLG2	CaTSNP8411	76.53	scaffold06530	8317
1307	CaLG2	CaTSNP8152	76.58	scaffold00944	115853
1308	CaLG2	CaTSNP6811	76.69	scaffold07890	6255
1309	CaLG2	CaTSNP8642	76.7	scaffold01198	84721
1310	CaLG2	CaTSNP8087	76.74	scaffold06004	9594
1311	CaLG2	CaTSNP6543	76.75	scaffold02774	32429
1312	CaLG2	CaTSNP7917	76.9	scaffold00431	180307
1313	CaLG2	CaTSNP6657	76.92	-	-
1314	CaLG2	CaTSNP8434	77.16	scaffold00518	158206
1315	CaLG2	CaSNP2515	77.19	scaffold00441	164704
1316	CaLG2	CaSNP2869	77.22	-	-
1317	CaLG2	CaSNP5127	77.22	scaffold01807	53090
1318	CaLG2	CaTSNP6818	77.32	-	-
1319	CaLG2	CaTSNP6700	77.32	9199862	42200
1320	CaLG2	CaSNP2707	77.43	-	-
1321	CaLG2	CaTSNP6147	77.45	9213384	43739
1322	CaLG2	CaSNP2313	77.53	-	-
1323	CaLG2	CaSNP2821	77.53	scaffold01358	78833
1324	CaLG2	CaSNP4420	77.53	scaffold03176	36117
1325	CaLG2	CaTSNP9106	77.7	-	-
1326	CaLG2	CaTSNP8007	77.7	-	-
1327	CaLG2	CaTSNP8849	77.71	scaffold00301	198945
1328	CaLG2	CaTSNP8730	77.72	-	-
1329	CaLG2	CaTSNP7047	77.72	-	-

1330	CaLG2	CaTSNP7009	77.73	-	-
1331	CaLG2	CaTSNP8533	77.76	-	-
1332	CaLG2	CaTSNP7986	77.77	scaffold00150	296668
1333	CaLG2	CaTSNP8560	77.77	-	-
1334	CaLG2	CaTSNP8378	77.83	-	-
1335	CaLG2	CaSNP4859	77.93	scaffold01998	74546
1336	CaLG2	CaSNP2706	77.95	scaffold01552	65628
1337	CaLG2	CaTSNP7478	77.97	-	-
1338	CaLG2	CaSNP4296	77.98	scaffold02982	41850
1339	CaLG2	CaSNP2275	78.03	-	-
1340	CaLG2	CaSNP4904	78.09	scaffold01576	63829
1341	CaLG2	CaSNP4031	78.19	scaffold00214	255375
1342	CaLG2	CaTSNP7196	78.2	-	-
1343	CaLG2	CaTSNP9020	78.2	-	-
1344	CaLG2	CaSNP2225	78.22	-	-
1345	CaLG2	CaSNP1970	78.27	-	-
1346	CaLG2	CaTSNP7743	78.53	scaffold00370	187853
1347	CaLG2	CaTSNP8687	78.53	-	-
1348	CaLG2	CaSNP5036	78.63	-	-
1349	CaLG2	CaTSNP8838	78.7	-	-
1350	CaLG2	CaTMS566	78.8	-	-
1351	CaLG2	CaSNP3228	78.95	scaffold00403	178425
1352	CaLG2	CaSNP2098	78.97	-	-
1353	CaLG2	CaTSNP8317	78.99	-	-
1354	CaLG2	CaGMS43	79.02	-	-
1355	CaLG2	CaSNP3523	79.03	scaffold01046	98500
1356	CaLG2	CaTSNP6388	79.05	-	-
1357	CaLG2	CaTSNP6381	79.14	-	-
1358	CaLG2	CaTSNP9091	79.21	-	-

1359	CaLG2	CaSNP1989	79.26	-	-
1360	CaLG2	CaTSNP8377	79.37	scaffold00326	196988
1361	CaLG2	CaSNP2407	79.45	-	-
1362	CaLG2	CaTMS788	80	-	-
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1364	CaLG2	NCPGR13	82.98	scaffold03059	28813
1365	CaLG2	NCPGR117	85.04	-	-
1366	CaLG2	CaSNP2722	85.55	scaffold01578	61692
1367	CaLG2	CaGMS1160	86.26	-	-
1368	CaLG2	CaTMS798	86.76	-	-
1369	CaLG2	NCPGR28	94.34	scaffold02262	63594
1370	CaLG2	CaTMS690	96.37	-	-
1371	CaLG2	NCPGR110	98.74	scaffold05493	10876
1372	CaLG2	CaTMS648	98.78	-	-
1373	CaLG2	CaTMS516	99.9	-	-
1374	CaLG2	CESSR131	104.5	-	-
1375	CaLG2	PIP81	108.7	-	-
1376	CaLG2	NCPGR40	124.5	-	-
1377	CaLG2	CaGMS218	136.6	-	-
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1380	CaLG3	CaTMS1051	3.409	-	-
1381	CaLG3	CaTMS671	4.102	-	-
1382	CaLG3	CaTMS664	4.182	-	-
1383	CaLG3	CEST103	4.399	-	-
1384	CaLG3	CaGMS12	9.067	-	-
1385	CaLG3	TA76	9.285	-	-
1386	CaLG3	GAA45	11.25	-	-
1387	CaLG3	CaTMS580	13.17	-	-

1388	CaLG3	CESSR105	13.55	scaffold00006	858964
1389	CaLG3	CaTMS722	14.07	-	-
1390	CaLG3	CaTMS823	14.07	-	-
1391	CaLG3	CaTMS982	14.07	-	-
1392	CaLG3	CaTMS615	14.07	-	-
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1394	CaLG3	PIP69	18.18	-	-
1395	CaLG3	NCPGR272	18.78	-	-
1396	CaLG3	CaTSNP8442	18.81	-	-
1397	CaLG3	CaTSNP8602	18.95	-	-
1398	CaLG3	CaTSNP8584	19.15	scaffold04520	15226
1399	CaLG3	CaTSNP7519	19.15	-	-
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1404	CaLG3	CaTSNP6044	19.41	-	-
1405	CaLG3	CESSR136	19.46	scaffold00287	225553
1406	CaLG3	CaSNP3391	19.53	scaffold00194	230652
1407	CaLG3	CaSNP3004	19.6	scaffold00711	131265
1408	CaLG3	CaTMS811	20.03	-	-
1409	CaLG3	CaSNP410	20.19	-	-
1410	CaLG3	CaSNP198	20.42	scaffold00018	644708
1411	CaLG3	NCPGR62	20.67	scaffold02806	39229
1412	CaLG3	CaTMS654	21.02	-	-
1413	CaLG3	CaTMS914	21.28	-	-
1414	CaLG3	CaSNP409	21.32	-	-
1415	CaLG3	CaGMS39	21.4	-	-
1416	CaLG3	CaTSNP6635	21.49	-	-

1417	CaLG3	ESNP60	22.34	-	-
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1419	CaLG3	CaTSNP7207	22.65	9199797	57082
1420	CaLG3	CaTSNP6601	22.77	-	-
1421	CaLG3	CaTSNP8002	22.79	-	-
1422	CaLG3	CaTSNP8104	22.79	-	-
1423	CaLG3	CaSNP304	23.17	-	-
1424	CaLG3	NCPGR54	23.36	9073711	15843
1425	CaLG3	CaSNP2042	23.4	-	-
1426	CaLG3	TR26	23.58	-	-
1427	CaLG3	CaGMS1164	23.65	-	-
1428	CaLG3	CaTSNP6995	24.31	-	-
1429	CaLG3	CaSNP657	24.83	scaffold00184	269194
1430	CaLG3	CaSNP137	24.91	9202610	60555
1431	CaLG3	CaGMS310	25.07	-	-
1432	CaLG3	CaTMS1116	25.34	-	-
1433	CaLG3	CaTMS1097	25.47	-	-
1434	CaLG3	CaSNP766	25.5	scaffold00034	513174
1435	CaLG3	CaSNP791	25.5	-	-
1436	CaLG3	CaSNP70	25.54	-	-
1437	CaLG3	CaSNP903	25.54	-	-
1438	CaLG3	CaSNP468	25.9	scaffold00332	184134
1439	CaLG3	GA105	26.06	-	-
1440	CaLG3	CaTMS1070	26.17	-	-
1441	CaLG3	CaTSNP7546	26.3	-	-
1442	CaLG3	CaTSNP7672	26.69	-	-
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1445	CaLG3	CaTSNP8330	27.19	-	-

1446	CaLG3	CaTSNP8906	27.19	-	-
1447	CaLG3	CaSNP324	27.21	-	-
1448	CaLG3	CaTSNP6958	27.21	-	-
1449	CaLG3	CaTSNP8359	27.21	-	-
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1452	CaLG3	CaSNP3052	27.68	-	-
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1454	CaLG3	CaTSNP6392	27.91	-	-
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1464	CaLG3	CaTSNP8191	28.65	-	-
1465	CaLG3	CaTSNP8777	28.65	-	-
1466	CaLG3	CaTMS783	28.72	-	-
1467	CaLG3	CaSNP3076	29.21	-	-
1468	CaLG3	CaTSNP6184	29.37	-	-
1469	CaLG3	CaTSNP7228	29.4	-	-
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1472	CaLG3	CaSNP623	29.56	-	-
1473	CaLG3	CaTSNP7180	29.67	-	-
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1475	CaLG3	CaSNP3518	29.7	scaffold01947	58125
1476	CaLG3	CaTSNP8050	29.72	-	-
1477	CaLG3	CaTSNP6288	29.76	-	-
1478	CaLG3	CaTSNP7456	29.76	-	-
1479	CaLG3	CaTSNP7301	29.89	scaffold00333	192794
1480	CaLG3	CaTSNP7095	29.96	-	-
1481	CaLG3	CaSNP890	29.99	scaffold00133	278845
1482	CaLG3	NCPGR43	30.24	-	-
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1484	CaLG3	CaSNP273	30.69	-	-
1485	CaLG3	CaSNP690	30.74	-	-
1486	CaLG3	CaTSNP7411	30.99	-	-
1487	CaLG3	CaSNP2522	31.19	scaffold00576	135713
1488	CaLG3	CaTSNP8566	31.29	scaffold02581	35945
1489	CaLG3	CaSNP2166	31.31	-	-
1490	CaLG3	CaSNP365	31.37	scaffold00142	271827
1491	CaLG3	CaTSNP7504	31.6	-	-
1492	CaLG3	CaTSNP6717	31.61	-	-
1493	CaLG3	CaTSNP7640	31.66	-	-
1494	CaLG3	CaSNP413	31.67	-	-
1495	CaLG3	CaTSNP7811	31.68	-	-
1496	CaLG3	CaTSNP7866	31.68	-	-
1497	CaLG3	CaTSNP8064	31.72	-	-
1498	CaLG3	CaSNP119	31.81	-	-
1499	CaLG3	CaSNP232	31.87	-	-
1500	CaLG3	CaSNP583	31.93	9201208	30379
1501	CaLG3	ESNP94	31.93	scaffold00033	520839
1502	CaLG3	CaTSNP8581	31.96	-	-
1503	CaLG3	CaTSNP9154	32	-	-

1504	CaLG3	CaTMS890	32	-	-
1505	CaLG3	CaSNP212	32.03	scaffold00017	653561
1506	CaLG3	CaSNP479	32.03	-	-
1507	CaLG3	CaSNP816	32.03	9139990	28153
1508	CaLG3	ESNP78	32.03	-	-
1509	CaLG3	CaTSNP8345	32.05	-	-
1510	CaLG3	CaTMS915	32.29	-	-
1511	CaLG3	CaSNP422	32.32	-	-
1512	CaLG3	CaSNP819	32.35	-	-
1513	CaLG3	CaSNP774	32.39	-	-
1514	CaLG3	ESNP25	32.39	9211922	9185
1515	CaLG3	NCPGR12	32.43	-	-
1516	CaLG3	CaTMS1007	32.53	-	-
1517	CaLG3	CaSNP502	33.17	-	-
1518	CaLG3	CaSNP830	33.22	9180910	9543
1519	CaLG3	CaSNP250	33.25	-	-
1520	CaLG3	CaSNP494	33.25	-	-
1521	CaLG3	CaTSNP7550	33.35	-	-
1522	CaLG3	CaTMS774	33.61	-	-
1523	CaLG3	CaTMS698	33.73	-	-
1524	CaLG3	CaTMS843	33.78	-	-
1525	CaLG3	CaTMS579	33.87	-	-
1526	CaLG3	CaGMS24	34.11	-	-
1527	CaLG3	CaTMS1094	34.13	-	-
1528	CaLG3	CaTMS581	34.13	-	-
1529	CaLG3	CaTMS921	34.21	-	-
1530	CaLG3	CaTMS624	34.31	-	-
1531	CaLG3	CaTSNP8591	34.44	-	-
1532	CaLG3	CaTSNP7951	34.46	-	-

1533	CaLG3	CaSNP4902	34.48	scaffold02850	31276
1534	CaLG3	CaTSNP6658	34.49	-	-
1535	CaLG3	CaTSNP6876	34.51	-	-
1536	CaLG3	CaTSNP7883	34.51	-	-
1537	CaLG3	CaTMS1024	34.61	-	-
1538	CaLG3	CaSNP3289	34.67	-	-
1539	CaLG3	CaTSNP6623	34.67	-	-
1540	CaLG3	CaTSNP7800	34.88	9213471	13799
1541	CaLG3	CaGMS34	35.02	-	-
1542	CaLG3	CaTSNP7245	35.06	-	-
1543	CaLG3	CaTSNP6760	35.11	-	-
1544	CaLG3	CaTSNP7761	35.11	-	-
1545	CaLG3	CaTSNP6021	35.12	-	-
1546	CaLG3	CaSNP5063	35.21	-	-
1547	CaLG3	CaSNP3867	35.26	-	-
1548	CaLG3	CaTSNP6834	35.28	-	-
1549	CaLG3	CaTSNP8822	35.29	-	-
1550	CaLG3	CaTSNP7822	35.34	-	-
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1552	CaLG3	CaTSNP9136	35.44	scaffold01070	89369
1553	CaLG3	CaTSNP6973	35.54	-	-
1554	CaLG3	CaTMS522	35.54	-	-
1555	CaLG3	CaTSNP8289	35.56	-	-
1556	CaLG3	CaTSNP6165	35.57	-	-
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1558	CaLG3	CaTSNP6384	35.6	-	-
1559	CaLG3	CaTSNP6578	35.6	-	-
1560	CaLG3	CaTSNP6580	35.6	-	-
1561	CaLG3	CaTSNP8267	35.78	-	-

1562	CaLG3	CaSNP3576	35.81	-	-
1563	CaLG3	CaSNP1999	35.82	-	-
1564	CaLG3	CaTSNP8703	35.93	-	-
1565	CaLG3	CaTSNP8981	35.95	-	-
1566	CaLG3	CaTSNP8217	35.95	-	-
1567	CaLG3	CaTSNP6514	35.98	-	-
1568	CaLG3	CaSNP2281	35.99	-	-
1569	CaLG3	CaSNP1980	35.99	-	-
1570	CaLG3	CaTSNP6274	36	-	-
1571	CaLG3	CaTSNP7921	36	scaffold09014	6185
1572	CaLG3	CaTSNP6273	36	-	-
1573	CaLG3	CaTSNP7079	36.03	-	-
1574	CaLG3	CaTSNP8358	36.03	-	-
1575	CaLG3	CaTSNP8515	36.03	-	-
1576	CaLG3	CaTSNP7827	36.66	-	-
1577	CaLG3	CaTSNP8308	36.68	-	-
1578	CaLG3	CaTSNP8488	36.68	-	-
1579	CaLG3	CaTSNP6193	36.74	-	-
1580	CaLG3	CaTSNP6194	36.74	-	-
1581	CaLG3	CaTSNP6655	36.74	-	-
1582	CaLG3	CaTSNP6910	36.74	-	-
1583	CaLG3	CaTSNP6929	36.74	-	-
1584	CaLG3	CaTSNP7041	36.74	-	-
1585	CaLG3	CaTSNP8067	36.74	-	-
1586	CaLG3	CaTSNP8238	36.74	-	-
1587	CaLG3	CaTSNP8727	36.74	-	-
1588	CaLG3	CaTSNP8815	36.75	-	-
1589	CaLG3	CaTSNP6504	36.76	-	-
1590	CaLG3	CaTSNP6567	36.76	-	-

1591	CaLG3	CaTSNP7568	36.76	-	-
1592	CaLG3	CaTSNP7639	36.76	-	-
1593	CaLG3	CaTSNP7652	36.76	-	-
1594	CaLG3	CaTSNP6413	36.79	-	-
1595	CaLG3	GA31	36.84	-	-
1596	CaLG3	CaTSNP8089	36.94	-	-
1597	CaLG3	CaTSNP7990	37.33	scaffold00528	151863
1598	CaLG3	TAA169	37.49	-	-
1599	CaLG3	CaTSNP7314	37.55	-	-
1600	CaLG3	CaTSNP8497	37.57	-	-
1601	CaLG3	CaTSNP7841	37.6	-	-
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1603	CaLG3	CaTSNP6654	37.66	-	-
1604	CaLG3	CaTSNP8721	37.66	9213186	19396
1605	CaLG3	CaTSNP8018	37.69	-	-
1606	CaLG3	CaTSNP8468	38.01	9206248	3341
1607	CaLG3	CaTSNP7536	38.02	scaffold00040	472599
1608	CaLG3	CaSNP2347	38.12	scaffold02808	38750
1609	CaLG3	CaTSNP8552	38.29	-	-
1610	CaLG3	CaTSNP7678	38.49	-	-
1611	CaLG3	CaTSNP8909	38.49	-	-
1612	CaLG3	CaTSNP9004	38.49	-	-
1613	CaLG3	CaTSNP9119	38.49	-	-
1614	CaLG3	CaTSNP9138	38.49	-	-
1615	CaLG3	CaTSNP6442	38.54	-	-
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1617	CaLG3	CaTSNP8202	38.54	-	-
1618	CaLG3	CaTSNP8967	38.54	-	-
1619	CaLG3	CaTSNP7441	38.57	-	-

1620	CaLG3	CaTSNP8215	38.57	-	-
1621	CaLG3	CaSNP2932	38.68	-	-
1622	CaLG3	CaSNP2949	38.93	-	-
1623	CaLG3	CaSNP2088	39.05	-	-
1624	CaLG3	CaSNP3549	39.16	scaffold00123	295072
1625	CaLG3	CaSNP4923	39.2	-	-
1626	CaLG3	CaTSNP8404	39.25	-	-
1627	CaLG3	CaTSNP8958	39.44	-	-
1628	CaLG3	CaTSNP6154	39.56	-	-
1629	CaLG3	CaSNP4984	39.73	scaffold00031	561848
1630	CaLG3	CaTSNP6022	39.79	-	-
1631	CaLG3	CaTMS969	39.96	-	-
1632	CaLG3	CaSNP2983	40.19	scaffold00210	252444
1633	CaLG3	CaTSNP6034	40.2	-	-
1634	CaLG3	CaSNP2443	40.22	-	-
1635	CaLG3	CaTSNP6744	40.26	-	-
1636	CaLG3	CaTSNP6294	40.27	-	-
1637	CaLG3	CaTSNP6997	40.28	-	-
1638	CaLG3	CaTSNP6788	40.3	-	-
1639	CaLG3	CaSNP2121	40.33	scaffold00316	206248
1640	CaLG3	CaSNP4484	40.33	scaffold00308	225104
1641	CaLG3	CaTSNP8510	40.66	-	-
1642	CaLG3	CaTSNP8537	40.84	-	-
1643	CaLG3	CaTSNP9072	40.84	-	-
1644	CaLG3	CaTSNP9129	41.17	-	-
1645	CaLG3	CaTSNP7024	41.22	-	-
1646	CaLG3	CaTSNP7083	41.22	9184401	70758
1647	CaLG3	CaTSNP6914	41.27	scaffold00296	204015
1648	CaLG3	CaTSNP7440	41.92	-	-

1649	CaLG3	CaTSNP6061	42.04	-	-
1650	CaLG3	CaTSNP8760	42.06	scaffold00085	373145
1651	CaLG3	CaTSNP9130	42.08	9202071	65125
1652	CaLG3	CaTSNP6613	42.09	-	-
1653	CaLG3	CaTSNP7336	42.17	-	-
1654	CaLG3	CaGMS13	42.24	-	-
1655	CaLG3	CaSNP2875	42.33	scaffold03705	27868
1656	CaLG3	CaSNP378	42.47	-	-
1657	CaLG3	CaSNP500	42.72	-	-
1658	CaLG3	CaTMS724	42.84	-	-
1659	CaLG3	CaSNP602	42.98	-	-
1660	CaLG3	CaSNP512	43.47	-	-
1661	CaLG3	CaSNP538	43.47	-	-
1662	CaLG3	CaTSNP7415	43.54	-	-
1663	CaLG3	CaTSNP6574	43.55	9215750	39716
1664	CaLG3	CaTSNP6774	43.59	scaffold00164	255174
1665	CaLG3	CaTSNP7902	43.59	-	-
1666	CaLG3	CaTSNP7333	43.63	-	-
1667	CaLG3	CaTSNP8660	43.63	9169222	20586
1668	CaLG3	CaTSNP6647	43.64	-	-
1669	CaLG3	CaTSNP8873	43.64	-	-
1670	CaLG3	CaTSNP8590	43.7	-	-
1671	CaLG3	NCPGR274	43.81	-	-
1672	CaLG3	TS19	44.21	-	-
1673	CaLG3	CaSNP135	44.4	scaffold00039	484273
1674	CaLG3	CaSNP335	44.4	-	-
1675	CaLG3	CaSNP408	45.44	scaffold00365	182807
1676	CaLG3	CaTMS999	45.92	-	-
1677	CaLG3	CaSNP170	46.01	scaffold00645	151929

1678	CaLG3	CaSNP210	46.01	-	-
1679	CaLG3	CaTSNP8910	46.28	-	-
1680	CaLG3	CaGMS1214	46.31	-	-
1681	CaLG3	ESNP96	46.44	scaffold01372	75864
1682	CaLG3	CaTMS616	46.54	-	-
1683	CaLG3	CaTSNP6177	46.81	scaffold00703	122244
1684	CaLG3	CaTSNP9122	46.85	9199729	27279
1685	CaLG3	CaTSNP7840	46.85	-	-
1686	CaLG3	CaTSNP8689	46.85	-	-
1687	CaLG3	CaTSNP7929	46.99	-	-
1688	CaLG3	CaTSNP8528	47.27	-	-
1689	CaLG3	CaSNP301	47.6	-	-
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1692	CaLG3	CaTSNP8272	47.74	-	-
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1697	CaLG3	CaSNP3244	48.12	9213630	73727
1698	CaLG3	TR31	48.16	-	-
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1701	CaLG3	CaTMS949	48.45	-	-
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1703	CaLG3	CaTMS792	48.45	-	-
1704	CaLG3	CaGMS1161	48.46	-	-
1705	CaLG3	CaTMS515	48.46	-	-
1706	CaLG3	CaTMS650	48.46	-	-

1707	CaLG3	CaTMS1036	48.46	-	-
1708	CaLG3	CaTMS634	48.46	-	-
1709	CaLG3	CaSNP295	48.55	scaffold00220	234936
1710	CaLG3	CaTSNP8076	48.7	-	-
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1712	CaLG3	TA34	48.73	-	-
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1714	CaLG3	CaTSNP7566	48.79	9214105	20200
1715	CaLG3	CaTSNP7865	48.79	-	-
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1717	CaLG3	TA135	48.85	-	-
1718	CaLG3	CaSNP2496	48.92	-	-
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1723	CaLG3	CaGMS21	49.04	-	-
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1726	CaLG3	CaTMS753	49.04	-	-
1727	CaLG3	CaTMS794	49.04	-	-
1728	CaLG3	CaTMS885	49.04	-	-
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1735	CaLG3	CaTMS1020	49.07	-	-

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1748	CaLG3	CaSNP121	49.51	-	-
1749	CaLG3	CaTSNP8922	49.54	-	-
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1752	CaLG3	CaSNP519	49.64	scaffold00541	138086
1753	CaLG3	CaTSNP8645	49.65	scaffold00424	166226
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1755	CaLG3	CaTSNP6675	49.67	-	-
1756	CaLG3	CaTSNP6977	49.67	-	-
1757	CaLG3	CaTSNP7924	49.67	-	-
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1770	CaLG3	CaSNP3818	50.4	-	-
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1776	CaLG3	CaSNP2122	51.6	-	-
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1778	CaLG3	CaSNP3294	51.6	scaffold01214	76100
1779	CaLG3	CaSNP3383	52.52	-	-
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1781	CaLG3	CaSNP3999	52.73	scaffold01834	59623
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1790	CaLG3	CaTSNP8750	53.33	-	-
1791	CaLG3	CaTSNP6259	53.47	-	-
1792	CaLG3	CaSNP4881	53.54	scaffold03050	31451
1793	CaLG3	CaSNP2090	53.62	-	-

1794	CaLG3	CaTSNP7037	53.71	-	-
1795	CaLG3	CaTSNP8205	53.71	-	-
1796	CaLG3	CaTSNP6562	53.71	-	-
1797	CaLG3	CaSNP2333	53.85	-	-
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1820	CaLG3	CaTSNP7891	57.87	-	-
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1825	CaLG3	CaTSNP7588	59.14	scaffold00471	150645
1826	CaLG3	CaSNP3699	59.33	-	-
1827	CaLG3	CaSNP3575	59.34	scaffold00011	779820
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1829	CaLG3	CaTSNP6143	59.58	-	-
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1831	CaLG3	CaTSNP7473	59.75	-	-
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1834	CaLG3	CaSNP1957	59.92	9197961	38262
1835	CaLG3	CaSSR5	60.01	-	-
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1842	CaLG3	CaTSNP6731	60.88	scaffold00788	107512
1843	CaLG3	CaTSNP6523	60.89	scaffold01367	87936
1844	CaLG3	CaTSNP7721	60.95	scaffold03385	25361
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1848	CaLG3	CaSNP3417	61.38	-	-
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1851	CaLG3	CaTSNP8827	61.43	-	-

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1862	CaLG3	CaTSNP7334	62.21	-	-
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1867	CaLG3	CaSNP3290	62.43	-	-
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1872	CaLG3	CaSNP4030	62.76	scaffold00628	136417
1873	CaLG3	CaSNP4156	62.76	scaffold01864	55711
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1876	CaLG3	CaSNP2785	63.42	-	-
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1881	CaLG3	CaSNP368	64.42	scaffold03702	30386
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1892	CaLG3	ESNP13	65.21	scaffold00644	134581
1893	CaLG3	CaSNP35	65.22	-	-
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1896	CaLG3	CaTSNP6157	65.26	scaffold00562	148988
1897	CaLG3	CaTSNP7602	65.26	-	-
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1900	CaLG3	CaTSNP7623	65.33	-	-
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1908	CaLG3	CaSNP4664	66.19	scaffold00185	240475
1909	CaLG3	CaSNP2862	66.23	scaffold01053	95448

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1911	CaLG3	CaTSNP8329	66.3	-	-
1912	CaLG3	CaTSNP6327	66.34	-	-
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1914	CaLG3	CaTMS519	66.35	-	-
1915	CaLG3	CaGMS7	66.48	-	-
1916	CaLG3	CaGMS1199	66.59	-	-
1917	CaLG3	CaSNP2896	66.62	scaffold02089	55452
1918	CaLG3	CaSNP3225	66.62	scaffold00702	133683
1919	CaLG3	CaSNP3404	66.62	scaffold01698	58352
1920	CaLG3	CaSNP4080	66.62	scaffold02302	43468
1921	CaLG3	CaSNP2269	66.62	scaffold00947	92620
1922	CaLG3	CaSNP2676	66.66	scaffold00440	162222
1923	CaLG3	CaSNP4127	66.97	scaffold02753	36203
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1925	CaLG3	CaSNP3473	67.16	scaffold00706	133238
1926	CaLG3	CaTSNP7770	67.2	-	-
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1931	CaLG3	CaSNP4680	67.24	scaffold04368	25689
1932	CaLG3	CaSNP876	67.24	-	-
1933	CaLG3	CaSNP4561	67.27	-	-
1934	CaLG3	CaSNP3254	67.29	-	-
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1936	CaLG3	CaTSNP6724	67.32	9207770	26395
1937	CaLG3	CaTSNP6771	67.33	-	-
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1957	CaLG3	CaSNP5119	67.36	scaffold01283	87860
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1962	CaLG3	CaSNP2966	67.38	-	-
1963	CaLG3	CaSNP3763	67.38	scaffold02834	32903
1964	CaLG3	CaSNP1954	67.38	scaffold00392	166732
1965	CaLG3	CaSNP2229	67.38	scaffold00747	112596
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1976	CaLG3	CaSNP4304	67.38	scaffold02677	38537
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1979	CaLG3	CaSNP5011	67.38	scaffold01627	63035
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1983	CaLG3	CaSNP2392	67.38	scaffold00402	196332
1984	CaLG3	CaSNP2403	67.38	scaffold00328	208376
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1986	CaLG3	CaSNP2974	67.38	scaffold00355	198414
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1988	CaLG3	CaSNP3019	67.38	scaffold01727	72781
1989	CaLG3	CaSNP3337	67.38	-	-
1990	CaLG3	CaSNP3882	67.38	scaffold01621	70582
1991	CaLG3	CaSNP4247	67.38	scaffold00823	120138
1992	CaLG3	CaSNP4311	67.38	scaffold00417	190469
1993	CaLG3	CaSNP4427	67.38	scaffold03279	35905
1994	CaLG3	CaSNP4573	67.38	scaffold01720	58024
1995	CaLG3	CaSNP2459	67.38	-	-
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1997	CaLG3	CaSNP2789	67.38	9215602	41823
1998	CaLG3	CaSNP3323	67.38	scaffold01950	63254
1999	CaLG3	CaSNP3616	67.38	scaffold02037	50928
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2004	CaLG3	CaSNP4287	67.38	scaffold02967	37698
2005	CaLG3	CaSNP5004	67.38	scaffold03461	25761
2006	CaLG3	CaSNP5118	67.38	scaffold01760	72544
2007	CaLG3	CaSNP5136	67.38	scaffold01568	66251
2008	CaLG3	CaSNP2018	67.39	9209817	17125
2009	CaLG3	CaSNP2300	67.39	scaffold04251	20255
2010	CaLG3	CaSNP3162	67.39	scaffold01825	52002
2011	CaLG3	CaSNP4467	67.39	scaffold00535	166574
2012	CaLG3	CaSNP4509	67.39	9189986	4183
2013	CaLG3	CaSNP5043	67.44	scaffold00559	155926
2014	CaLG3	CaSNP3285	67.45	scaffold00459	150187
2015	CaLG3	CaSNP571	67.66	scaffold00069	438970
2016	CaLG3	CaTSNP6775	67.84	scaffold08816	5293
2017	CaLG3	CaTSNP7338	67.84	-	-
2018	CaLG3	CaTSNP8802	67.85	scaffold02738	40540
2019	CaLG3	CaTSNP8774	67.86	-	-
2020	CaLG3	CaTSNP7794	67.88	-	-
2021	CaLG3	CaSNP3001	67.91	scaffold03438	24483
2022	CaLG3	CaTSNP6095	68	scaffold07053	8292
2023	CaLG3	CaTSNP6220	68	-	-
2024	CaLG3	CaTSNP6720	68	-	-
2025	CaLG3	CaTSNP6822	68	-	-

2026	CaLG3	CaTSNP7548	68	-	-
2027	CaLG3	CaTSNP8026	68	-	-
2028	CaLG3	CaTSNP8271	68	9204776	9601
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2034	CaLG3	CaTSNP6203	68.01	-	-
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2037	CaLG3	CaTSNP7223	68.01	-	-
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2039	CaLG3	CaTSNP7435	68.01	-	-
2040	CaLG3	CaTSNP7718	68.01	scaffold04961	13034
2041	CaLG3	CaTSNP7830	68.01	-	-
2042	CaLG3	CaTSNP8473	68.01	-	-
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2044	CaLG3	CaTSNP8869	68.01	scaffold02319	40451
2045	CaLG3	CaTSNP9144	68.01	-	-
2046	CaLG3	CaTSNP8415	68.01	-	-
2047	CaLG3	CaTSNP7319	68.01	-	-
2048	CaLG3	CaTSNP7482	68.01	scaffold02157	49364
2049	CaLG3	CaTSNP9107	68.02	-	-
2050	CaLG3	CaTSNP7088	68.02	-	-
2051	CaLG3	CaTSNP7113	68.02	-	-
2052	CaLG3	CaTSNP8000	68.02	-	-
2053	CaLG3	CaTSNP8781	68.02	-	-
2054	CaLG3	CaTSNP7641	68.02	-	-

2055	CaLG3	CaTSNP8621	68.02	-	-
2056	CaLG3	CaTSNP6010	68.03	-	-
2057	CaLG3	CaTSNP7267	68.03	-	-
2058	CaLG3	CaTSNP7327	68.03	-	-
2059	CaLG3	CaTSNP6689	68.03	-	-
2060	CaLG3	CaSNP2148	68.15	-	-
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2062	CaLG3	CaSNP4359	68.22	scaffold02058	48786
2063	CaLG3	CaSNP5091	68.23	scaffold01702	76474
2064	CaLG3	CaTSNP8112	68.23	-	-
2065	CaLG3	CaSNP4474	68.23	scaffold01790	71457
2066	CaLG3	CaSNP3598	68.23	-	-
2067	CaLG3	CaSNP4442	68.25	scaffold01890	51418
2068	CaLG3	CaSNP3071	68.26	scaffold01626	76999
2069	CaLG3	CaSNP3204	68.28	9202146	12225
2070	CaLG3	CaSNP4549	68.29	scaffold12330	7077
2071	CaLG3	CaSNP4899	68.3	-	-
2072	CaLG3	CaSNP4014	68.31	scaffold01148	90614
2073	CaLG3	CaSNP5018	68.32	scaffold00342	186535
2074	CaLG3	CaSNP5010	68.32	9211988	38892
2075	CaLG3	CaSNP4320	68.32	scaffold07233	7747
2076	CaLG3	CaSNP3713	68.33	-	-
2077	CaLG3	CaSNP4051	68.33	scaffold00278	213177
2078	CaLG3	CaSNP2566	68.33	scaffold01304	82359
2079	CaLG3	CaSNP2642	68.33	scaffold00396	184840
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2081	CaLG3	CaSNP3023	68.33	scaffold01763	53544
2082	CaLG3	CaSNP3045	68.33	scaffold01314	81488
2083	CaLG3	CaSNP3138	68.33	scaffold01187	87098

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2090	CaLG3	CaSNP5013	68.33	scaffold02241	45220
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2093	CaLG3	CaSNP2524	68.33	-	-
2094	CaLG3	CaSNP2536	68.33	scaffold03647	26194
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2098	CaLG3	CaSNP2826	68.33	scaffold01781	65658
2099	CaLG3	CaSNP3040	68.33	scaffold02118	46694
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2103	CaLG3	CaSNP3317	68.33	-	-
2104	CaLG3	CaSNP3429	68.33	scaffold02212	46357
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2106	CaLG3	CaSNP3626	68.33	scaffold02583	47976
2107	CaLG3	CaSNP3665	68.33	scaffold06397	8616
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2124	CaLG3	CaSNP4939	68.33	scaffold02232	61521
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2126	CaLG3	CaSNP5143	68.33	scaffold00478	188563
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2128	CaLG3	CaSNP4882	68.33	scaffold02065	61890
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2130	CaLG3	CaSNP2816	68.34	scaffold01252	87628
2131	CaLG3	CaSNP4437	68.34	scaffold02520	47563
2132	CaLG3	CaSNP4789	68.34	scaffold01838	54605
2133	CaLG3	CaSNP2958	68.34	9194899	46200
2134	CaLG3	CaSNP4604	68.34	scaffold00817	119188
2135	CaLG3	CaSNP4013	68.34	scaffold03377	32344
2136	CaLG3	CaSNP2258	68.34	9205993	44057
2137	CaLG3	CaSNP2304	68.34	scaffold01254	89895
2138	CaLG3	CaSNP2652	68.34	scaffold01181	99489
2139	CaLG3	CaSNP2703	68.34	scaffold00052	546235
2140	CaLG3	CaSNP3433	68.34	scaffold02971	37675
2141	CaLG3	CaSNP3588	68.34	-	-

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2143	CaLG3	CaSNP3738	68.34	scaffold00908	111229
2144	CaLG3	CaSNP3832	68.34	scaffold01065	111368
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2146	CaLG3	CaSNP3994	68.34	scaffold02493	41255
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2149	CaLG3	CaSNP4310	68.34	scaffold03866	46854
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2151	CaLG3	CaSNP4640	68.34	-	-
2152	CaLG3	CaSNP4681	68.34	-	-
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2154	CaLG3	CaSNP4794	68.34	scaffold03114	27759
2155	CaLG3	CaSNP4823	68.34	9196841	14546
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2157	CaLG3	CaSNP2662	68.35	scaffold01406	71448
2158	CaLG3	CaSNP2161	68.35	-	-
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2160	CaLG3	CaSNP3757	68.35	scaffold02403	46346
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2165	CaLG3	CaSNP4414	68.35	-	-
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2167	CaLG3	CaSNP4936	68.35	-	-
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2169	CaLG3	CaSNP2409	68.35	scaffold02496	38309
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2175	CaLG3	CaSNP3261	68.35	scaffold00604	144390
2176	CaLG3	CaSNP3313	68.35	scaffold02459	42456
2177	CaLG3	CaSNP4246	68.35	scaffold01996	69148
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2181	CaLG3	CaSNP3276	68.35	scaffold00868	120190
2182	CaLG3	CaSNP4261	68.36	9214521	4605
2183	CaLG3	CaSNP2795	68.36	scaffold02690	37936
2184	CaLG3	CaSNP4628	68.36	scaffold01567	82267
2185	CaLG3	CaSNP3062	68.37	scaffold06879	7610
2186	CaLG3	CaSNP4629	68.37	9190030	17588
2187	CaLG3	CaSNP3835	68.37	scaffold01607	71017
2188	CaLG3	CaSNP3326	68.37	scaffold08031	6758
2189	CaLG3	CaSNP4223	68.37	scaffold00904	129328
2190	CaLG3	CaSNP4746	68.37	scaffold06701	7939
2191	CaLG3	CaSNP3146	68.38	scaffold01800	54096
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2193	CaLG3	CaSNP4506	68.38	-	-
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2196	CaLG3	CaSNP3850	68.38	scaffold02474	44979
2197	CaLG3	CaSNP2351	68.38	-	-
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2199	CaLG3	CaSNP2478	68.38	scaffold01681	64929

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2205	CaLG3	CaSNP4045	68.38	scaffold03577	22439
2206	CaLG3	CaSNP4271	68.38	-	-
2207	CaLG3	CaSNP4400	68.38	scaffold01059	108487
2208	CaLG3	CaSNP4440	68.38	-	-
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2211	CaLG3	CaSNP4986	68.38	scaffold03178	27049
2212	CaLG3	CaSNP5129	68.38	scaffold03282	25974
2213	CaLG3	CaSNP3172	68.38	scaffold00705	150444
2214	CaLG3	CaSNP2143	68.39	scaffold01522	62755
2215	CaLG3	CaSNP2632	68.39	scaffold00718	125359
2216	CaLG3	CaSNP2693	68.39	scaffold01175	99141
2217	CaLG3	CaSNP3002	68.39	scaffold00472	174696
2218	CaLG3	CaSNP3633	68.39	scaffold00624	131794
2219	CaLG3	CaSNP3708	68.39	-	-
2220	CaLG3	CaSNP3838	68.39	scaffold01068	91062
2221	CaLG3	CaSNP3988	68.39	scaffold01326	85466
2222	CaLG3	CaSNP4105	68.39	scaffold01348	76990
2223	CaLG3	CaSNP4539	68.39	scaffold01938	50113
2224	CaLG3	CaSNP4673	68.39	scaffold01843	65843
2225	CaLG3	CaSNP4713	68.39	scaffold02067	52135
2226	CaLG3	CaSNP4748	68.39	scaffold02656	51814
2227	CaLG3	CaSNP3690	68.39	scaffold01553	77219
2228	CaLG3	CaSNP3696	68.39	scaffold00854	128287

2229	CaLG3	CaSNP4517	68.39	scaffold00987	99368
2230	CaLG3	CaSNP3423	68.39	9211874	32279
2231	CaLG3	CaSNP4940	68.39	scaffold03170	27442
2232	CaLG3	CaSNP3926	68.39	scaffold01743	66455
2233	CaLG3	CaSNP3113	68.39	scaffold01300	77100
2234	CaLG3	CaSNP4204	68.39	scaffold00096	360744
2235	CaLG3	CaSNP1942	68.4	scaffold00667	126397
2236	CaLG3	CaSNP2336	68.4	scaffold00305	196279
2237	CaLG3	CaSNP2890	68.4	scaffold01209	116345
2238	CaLG3	CaSNP3048	68.4	scaffold01027	98779
2239	CaLG3	CaSNP3110	68.4	scaffold01754	64417
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2243	CaLG3	CaSNP4518	68.4	scaffold02192	52715
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2245	CaLG3	CaSNP4745	68.4	-	-
2246	CaLG3	CaSNP5005	68.41	-	-
2247	CaLG3	CaSNP5125	68.42	scaffold05654	10439
2248	CaLG3	CaSNP4866	68.46	scaffold02855	31529
2249	CaLG3	CaSNP4443	68.5	scaffold00745	140269
2250	CaLG3	CaSNP4925	68.57	scaffold00802	120240
2251	CaLG3	CaGMS5	68.65	scaffold03219	32147
2252	CaLG3	CaTMS815	68.72	-	-
2253	CaLG3	CaSNP3248	68.9	scaffold02132	50504
2254	CaLG3	CaSNP4585	68.96	9206097	19594
2255	CaLG3	CaSNP3525	68.98	scaffold02756	32902
2256	CaLG3	CaSNP713	69.88	-	-
2257	CaLG3	CaSNP4551	70.62	-	-

2258	CaLG3	CaSNP68	70.71	-	-
2259	CaLG3	CaSNP3353	70.87	-	-
2260	CaLG3	CaSNP88	71.16	-	-
2261	CaLG3	CaSNP686	71.3	scaffold00650	141255
2262	CaLG3	CaSNP515	71.73	scaffold01735	62495
2263	CaLG3	CaSNP596	71.76	scaffold02101	54737
2264	CaLG3	CaSNP3466	71.98	-	-
2265	CaLG3	ESNP19	72.33	-	-
2266	CaLG3	CaSNP886	72.34	-	-
2267	CaLG3	CaTMS721	72.37	-	-
2268	CaLG3	CaSNP535	72.6	-	-
2269	CaLG3	CaSNP148	72.62	scaffold00931	99148
2270	CaLG3	CaSNP513	72.88	-	-
2271	CaLG3	CaSNP106	72.98	-	-
2272	CaLG3	CaSNP118	73.12	9210244	22708
2273	CaLG3	NCPGR171	73.16	-	-
2274	CaLG3	CaSNP909	73.18	-	-
2275	CaLG3	CaSNP480	73.22	-	-
2276	CaLG3	NCPGR240	74.06	-	-
2277	CaLG3	NCPGR266	74.97	scaffold12596	3095
2278	CaLG3	NCPGR128	75.47	-	-
2279	CaLG3	NCPGR157	75.58	-	-
2280	CaLG3	NCPGR192	76	-	-
2281	CaLG3	NCPGR141	76.37	-	-
2282	CaLG3	NCPGR100	78.24	-	-
2283	CaLG3	NCPGR55	79.22	9175359	19979
2284	CaLG3	CESSR61	80.4	scaffold00036	498806
2285	CaLG3	NCPGR103	82.3	9216038	9390
2286	CaLG3	CaTMS562	84.2	-	-

2287	CaLG3	GA13	86.48	-	-
2288	CaLG3	NCPGR213	91.03	-	-
2289	CaLG3	CESSR103	114.9	-	-
2290	CaLG4	CaTMS720	0	-	-
2291	CaLG4	PIP12	6.868	-	-
2292	CaLG4	PIP75	25.69	-	-
2293	CaLG4	CEST164	26.46	-	-
2294	CaLG4	PIP72	32.75	scaffold01816	72127
2295	CaLG4	CESSR22	41.06	-	-
2296	CaLG4	CaTMS582	41.39	-	-
2297	CaLG4	CaTMS1119	41.99	-	-
2298	CaLG4	CaTMS606	41.99	-	-
2299	CaLG4	PIP35	42.22	-	-
2300	CaLG4	CESSR434	46.03	-	-
2301	CaLG4	H4F03	46.06	-	-
2302	CaLG4	PIP96	48.04	-	-
2303	CaLG4	GA129	50.59	-	-
2304	CaLG4	TA46	52.58	-	-
2305	CaLG4	Foc0	52.75	-	-
2306	CaLG4	CaTMS856	53.05	-	-
2307	CaLG4	H3C041	53.11	-	-
2308	CaLG4	CEST51	54.07	-	-
2309	CaLG4	CaSNP236	55.54	9205467	15971
2310	CaLG4	CaSNP495	55.59	scaffold00425	174469
2311	CaLG4	ESNP77	55.59	scaffold08729	5382
2312	CaLG4	CaSNP1930	56.27	-	-
2313	CaLG4	CaSNP2670	56.4	-	-
2314	CaLG4	CaSNP3804	56.45	scaffold01978	51741
2315	CaLG4	CaSNP2961	56.47	scaffold00280	225184

2316	CaLG4	CaSNP603	56.5	scaffold00051	443471
2317	CaLG4	CaSNP50	56.58	scaffold00195	237463
2318	CaLG4	CaSNP5076	56.62	-	-
2319	CaLG4	CaSNP4911	56.95	9211642	8941
2320	CaLG4	CaSNP2683	57.05	scaffold00207	254513
2321	CaLG4	CaSNP3571	57.05	scaffold07324	6937
2322	CaLG4	CaSNP1947	57.26	-	-
2323	CaLG4	CaGMS1263	57.32	-	-
2324	CaLG4	CaTSNP8408	57.42	-	-
2325	CaLG4	CaTSNP7909	57.55	-	-
2326	CaLG4	CaTSNP6860	57.59	9202511	12465
2327	CaLG4	CaTSNP8099	57.62	-	-
2328	CaLG4	CaTSNP6940	57.64	-	-
2329	CaLG4	CaTSNP8719	57.94	-	-
2330	CaLG4	CaTSNP6953	58.01	-	-
2331	CaLG4	CaSNP3794	58.04	-	-
2332	CaLG4	CaTSNP7197	58.04	-	-
2333	CaLG4	CaGMS1150	58.07	-	-
2334	CaLG4	CaTSNP6521	58.24	-	-
2335	CaLG4	CaSNP733	58.9	scaffold00529	147815
2336	CaLG4	ESNP26	59.07	scaffold00074	424271
2337	CaLG4	CaSNP4159	59.31	-	-
2338	CaLG4	CaSNP2493	59.39	-	-
2339	CaLG4	CaTSNP6015	59.42	9185396	7788
2340	CaLG4	CaTSNP7790	59.42	9152325	2419
2341	CaLG4	CaTSNP7193	59.81	-	-
2342	CaLG4	CaTSNP7285	59.81	scaffold00366	185859
2343	CaLG4	CaTSNP6622	59.83	-	-
2344	CaLG4	CaTSNP6530	59.83	9199637	36422

2345	CaLG4	CaTSNP8690	59.83	-	-
2346	CaLG4	CaTSNP8934	59.83	-	-
2347	CaLG4	CESSR60	59.84	-	-
2348	CaLG4	CaTSNP7563	59.9	-	-
2349	CaLG4	CESSR28	60.39	scaffold01033	95867
2350	CaLG4	CaSNP2448	60.53	-	-
2351	CaLG4	CaTSNP6376	61.79	-	-
2352	CaLG4	NCPGR254	62.09	scaffold01085	109866
2353	CaLG4	CaTSNP8318	62.47	scaffold00694	123450
2354	CaLG4	CaTSNP6607	63.62	9208255	12256
2355	CaLG4	CaTSNP7270	63.64	-	-
2356	CaLG4	CaTSNP8763	63.64	-	-
2357	CaLG4	CaTSNP6128	63.65	-	-
2358	CaLG4	CaTSNP7703	63.7	9204159	41162
2359	CaLG4	CaTSNP8539	66.11	-	-
2360	CaLG4	CaSNP2387	66.34	-	-
2361	CaLG4	CaSNP2196	66.5	scaffold02093	47419
2362	CaLG4	CaSNP3078	66.5	scaffold00799	133840
2363	CaLG4	CaTSNP7925	66.59	scaffold00374	182946
2364	CaLG4	CaTSNP8963	66.6	-	-
2365	CaLG4	CaTMS952	67.15	-	-
2366	CaLG4	CaSNP3694	67.24	scaffold00265	244004
2367	CaLG4	CaTSNP6819	67.3	-	-
2368	CaLG4	CaTSNP8071	67.3	-	-
2369	CaLG4	CaSNP2729	67.37	scaffold01226	78858
2370	CaLG4	CaTSNP8517	67.55	9190032	37941
2371	CaLG4	CaSNP3274	67.57	-	-
2372	CaLG4	CaTSNP7276	68.59	scaffold00641	129371
2373	CaLG4	CEST21	68.69	-	-

2374	CaLG4	CEST132	69.05	scaffold04338	26260
2375	CaLG4	CaTSNP6737	69.62	scaffold00794	122446
2376	CaLG4	CaSNP3826	69.64	-	-
2377	CaLG4	PIP217	69.86	-	-
2378	CaLG4	NCPGR127	69.87	scaffold00113	339829
2379	CaLG4	CaTSNP8031	70	scaffold00122	330031
2380	CaLG4	CaTSNP8632	70	-	-
2381	CaLG4	CaTSNP8787	70.28	scaffold00907	112649
2382	CaLG4	CaSNP314	70.3	-	-
2383	CaLG4	CaGMS20	70.32	-	-
2384	CaLG4	CaTSNP8107	70.32	scaffold00311	190055
2385	CaLG4	NCPGR129	70.37	scaffold01551	82746
2386	CaLG4	CaSNP2173	70.39	-	-
2387	CaLG4	CaSNP2494	70.46	-	-
2388	CaLG4	CaSNP4990	70.46	scaffold03076	28156
2389	CaLG4	CaTSNP6930	70.49	scaffold04267	16828
2390	CaLG4	CaTSNP6097	70.6	-	-
2391	CaLG4	CaTSNP8628	70.6	-	-
2392	CaLG4	CaSNP2504	70.61	-	-
2393	CaLG4	CaSNP2921	70.61	-	-
2394	CaLG4	CaTSNP8938	70.65	scaffold00998	89134
2395	CaLG4	CaSNP906	70.67	scaffold01706	74990
2396	CaLG4	CaTSNP7522	70.73	-	-
2397	CaLG4	CaSNP3642	70.82	-	-
2398	CaLG4	CaTSNP7855	71.17	scaffold00238	238748
2399	CaLG4	CaSNP4339	72.49	scaffold00369	197715
2400	CaLG4	CaGMS33	73.01	-	-
2401	CaLG4	CaSNP5058	73.52	scaffold00954	92440
2402	CaLG4	CaSNP428	73.83	-	-

2403	CaLG4	ESNP50	74.26	scaffold00275	210672
2404	CaLG4	CaSNP576	74.4	scaffold01478	64737
2405	CaLG4	CaSNP899	74.48	9205492	53517
2406	CaLG4	CaSNP316	74.57	-	-
2407	CaLG4	CaTSNP6600	74.66	-	-
2408	CaLG4	CaTSNP7600	74.72	-	-
2409	CaLG4	CaSNP2550	74.78	-	-
2410	CaLG4	CaSNP4050	74.96	scaffold01230	105763
2411	CaLG4	CaSNP415	75.22	scaffold00098	347727
2412	CaLG4	CaTSNP8943	75.49	-	-
2413	CaLG4	CaSNP616	75.56	-	-
2414	CaLG4	CaSNP315	75.65	scaffold00224	229184
2415	CaLG4	CaTSNP6440	75.71	-	-
2416	CaLG4	CaSNP66	75.74	-	-
2417	CaLG4	CaSNP663	75.74	-	-
2418	CaLG4	CaSNP2557	76.07	scaffold01342	69931
2419	CaLG4	CaSNP3199	76.07	scaffold06881	9377
2420	CaLG4	CaSNP2249	76.1	scaffold00733	111986
2421	CaLG4	CaTSNP6340	76.16	-	-
2422	CaLG4	CaSNP2498	76.24	scaffold00721	113098
2423	CaLG4	NCPGR150	76.28	scaffold00739	127512
2424	CaLG4	CaTSNP9071	76.32	-	-
2425	CaLG4	CaSNP201	76.49	scaffold01953	49045
2426	CaLG4	CaTSNP6497	76.52	-	-
2427	CaLG4	CaTSNP6948	76.52	-	-
2428	CaLG4	CaTSNP9008	76.65	-	-
2429	CaLG4	CaSNP5113	76.66	-	-
2430	CaLG4	CaTSNP8555	76.67	-	-
2431	CaLG4	CaSNP2203	76.7	scaffold00506	168284

2432	CaLG4	CaSNP2814	76.76	scaffold01330	83347
2433	CaLG4	CaTSNP7419	76.77	-	-
2434	CaLG4	CaTSNP6922	76.88	-	-
2435	CaLG4	CaTSNP6091	77.07	scaffold00530	142588
2436	CaLG4	CaTSNP7582	77.23	-	-
2437	CaLG4	CaTSNP8702	77.23	-	-
2438	CaLG4	CaTSNP8431	77.38	-	-
2439	CaLG4	CaTSNP7086	77.62	-	-
2440	CaLG4	CaTSNP9124	77.76	-	-
2441	CaLG4	CaTSNP7958	78.24	-	-
2442	CaLG4	CaSNP2095	78.25	-	-
2443	CaLG4	CaTSNP8325	78.29	-	-
2444	CaLG4	NCPGR190	78.53	-	-
2445	CaLG4	CaTMS992	78.68	-	-
2446	CaLG4	CaSNP868	78.87	-	-
2447	CaLG4	CaTMS686	79.13	-	-
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2452	CaLG4	CaTSNP6441	80.33	-	-
2453	CaLG4	CaTSNP8974	80.33	-	-
2454	CaLG4	PIP77	80.38	-	-
2455	CaLG4	CaTSNP8470	80.4	-	-
2456	CaLG4	CaTSNP6506	80.42	-	-
2457	CaLG4	CaTSNP7572	80.42	-	-
2458	CaLG4	CaTSNP7754	80.49	-	-
2459	CaLG4	CaTSNP8328	80.49	-	-
2460	CaLG4	CaTSNP8665	80.49	-	-

2461	CaLG4	CaTMS830	80.6	-	-
2462	CaLG4	CaSNP2943	80.94	scaffold00345	194488
2463	CaLG4	TS54	81.08	-	-
2464	CaLG4	CaGMS48	81.26	-	-
2465	CaLG4	CaTSNP8338	81.34	-	-
2466	CaLG4	CaSNP3168	81.36	scaffold01086	95294
2467	CaLG4	CaSNP4665	81.36	-	-
2468	CaLG4	CaSNP4058	81.55	-	-
2469	CaLG4	CaTMS572	81.65	-	-
2470	CaLG4	CaTSNP8384	81.75	-	-
2471	CaLG4	CaTSNP6153	81.8	-	-
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2474	CaLG4	CaTMS584	82.62	-	-
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2476	CaLG4	CaSNP3754	82.82	scaffold02244	43923
2477	CaLG4	CaTMS714	82.97	-	-
2478	CaLG4	CaTMS631	83.01	-	-
2479	CaLG4	CaGMS1248	83.06	-	-
2480	CaLG4	CaTSNP8063	83.1	-	-
2481	CaLG4	CESSR66	83.24	scaffold00007	873403
2482	CaLG4	CaTMS976	83.32	-	-
2483	CaLG4	CaTMS550	83.6	-	-
2484	CaLG4	CaGMS1154	83.64	-	-
2485	CaLG4	NCPGR224	84.35	-	-
2486	CaLG4	NCPGR76	84.37	-	-
2487	CaLG4	GA2	84.45	-	-
2488	CaLG4	CaTMS1090	84.68	-	-
2489	CaLG4	TR20	85.17	-	-

2490	CaLG4	CaGMS47	85.23	-	-
2491	CaLG4	CaTMS985	85.42	-	-
2492	CaLG4	TA13	85.49	-	-
2493	CaLG4	TS72	85.64	-	-
2494	CaLG4	TA72	85.87	-	-
2495	CaLG4	STMS26	85.93	-	-
2496	CaLG4	CaTMS608	86.08	-	-
2497	CaLG4	TA146	86.16	-	-
2498	CaLG4	CaSNP3226	86.17	-	-
2499	CaLG4	CaTMS744	86.21	-	-
2500	CaLG4	CaSNP2040	86.43	-	-
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2502	CaLG4	CESSR164	86.48	scaffold00778	112266
2503	CaLG4	CaSNP2278	86.54	-	-
2504	CaLG4	CESSR114	86.72	-	-
2505	CaLG4	CaSNP1956	86.78	-	-
2506	CaLG4	CaSNP308	86.78	scaffold00211	263412
2507	CaLG4	CaSNP3492	86.78	scaffold02102	44564
2508	CaLG4	CaSNP817	86.85	scaffold02115	59728
2509	CaLG4	CaSNP4694	87.06	-	-
2510	CaLG4	CaSNP3390	87.27	-	-
2511	CaLG4	CaTSNP7617	87.31	9179993	4651
2512	CaLG4	CaTSNP8321	87.4	9214561	17163
2513	CaLG4	CaSNP2068	87.41	scaffold00429	167086
2514	CaLG4	PIP148	87.46	-	-
2515	CaLG4	CaSNP577	87.5	-	-
2516	CaLG4	CaSNP3189	87.51	scaffold01360	73073
2517	CaLG4	CaSNP3338	87.55	-	-
2518	CaLG4	CaSNP3405	87.55	scaffold02712	39364

2519	CaLG4	CaSNP4085	87.55	-	-
2520	CaLG4	CaTSNP6075	87.71	scaffold01984	47468
2521	CaLG4	CaTSNP6618	87.71	scaffold00807	116175
2522	CaLG4	CaTMS707	87.76	-	-
2523	CaLG4	ESNP89	87.79	scaffold03163	37760
2524	CaLG4	CaTMS761	88.14	-	-
2525	CaLG4	CaSNP910	88.26	-	-
2526	CaLG4	CaSNP732	88.38	scaffold01020	91087
2527	CaLG4	CaSNP5114	88.47	scaffold06360	8710
2528	CaLG4	NCPGR214	88.51	-	-
2529	CaLG4	CaSNP574	88.54	9180975	30923
2530	CaLG4	CaTSNP6810	88.79	9204771	35765
2531	CaLG4	CaTSNP6921	88.96	scaffold00965	103316
2532	CaLG4	CaTSNP6352	89	scaffold00170	281199
2533	CaLG4	CaSNP3799	89.09	9182165	4533
2534	CaLG4	CaSNP4186	89.13	scaffold02744	33111
2535	CaLG4	CaSNP2555	89.38	scaffold00266	249735
2536	CaLG4	CaSNP3717	89.38	scaffold01634	64790
2537	CaLG4	CaSNP2697	89.4	scaffold03818	20106
2538	CaLG4	CaSNP827	89.42	-	-
2539	CaLG4	CaSNP2006	89.42	-	-
2540	CaLG4	TA130	89.56	-	-
2541	CaLG4	CaSNP3786	89.6	-	-
2542	CaLG4	CaSNP2134	89.69	-	-
2543	CaLG4	CaSNP2046	90	-	-
2544	CaLG4	CaSNP2170	90	9215854	15800
2545	CaLG4	CaSNP2668	90	scaffold01540	83431
2546	CaLG4	CaSNP2615	90.07	scaffold01180	84153
2547	CaLG4	CaSNP701	90.24	scaffold00704	143920

2548	CaLG4	CaSNP833	90.24	-	-
2549	CaLG4	CaTSNP7357	90.28	scaffold01751	70441
2550	CaLG4	CaSNP892	90.31	scaffold01133	92240
2551	CaLG4	CaSNP2469	90.31	scaffold01527	62597
2552	CaLG4	CaSNP2575	90.31	-	-
2553	CaLG4	CaTSNP6431	90.35	-	-
2554	CaLG4	CaSNP4826	90.36	scaffold00608	153420
2555	CaLG4	CaSNP855	90.56	-	-
2556	CaLG4	CaSNP180	90.72	9208964	52762
2557	CaLG4	CaTMS732	90.81	-	-
2558	CaLG4	CaTSNP7663	90.81	scaffold10626	4016
2559	CaLG4	CaTSNP7552	90.82	scaffold00285	204121
2560	CaLG4	CaSNP436	90.86	scaffold00235	226064
2561	CaLG4	CaTSNP6794	90.87	-	-
2562	CaLG4	CaTSNP8109	90.87	scaffold00866	132126
2563	CaLG4	CaSNP801	90.87	9215966	29621
2564	CaLG4	CaSNP2152	90.89	-	-
2565	CaLG4	CaSNP4043	90.93	-	-
2566	CaLG4	CaSNP343	90.94	scaffold00736	115521
2567	CaLG4	CaSNP579	90.98	scaffold02647	37608
2568	CaLG4	CaSNP528	91.03	scaffold01225	91713
2569	CaLG4	CaSNP541	91.14	scaffold00517	154350
2570	CaLG4	CaSNP664	91.14	scaffold00693	130134
2571	CaLG4	CaSNP4808	91.22	scaffold01195	88410
2572	CaLG4	CaSNP318	91.23	scaffold02511	45975
2573	CaLG4	CaTSNP7944	91.25	scaffold01043	88212
2574	CaLG4	CaTSNP6109	91.34	-	-
2575	CaLG4	CaTSNP6191	91.34	9209686	9945
2576	CaLG4	CaTSNP6234	91.44	scaffold00283	243659

2577	CaLG4	CaTSNP6892	91.44	-	-
2578	CaLG4	CaTSNP6768	91.48	scaffold01186	90610
2579	CaLG4	CaTSNP8982	91.5	scaffold00420	189553
2580	CaLG4	CaSNP3033	91.5	scaffold00593	157341
2581	CaLG4	CaTMS791	91.51	-	-
2582	CaLG4	CaSNP375	91.56	scaffold02398	39690
2583	CaLG4	CaSNP748	91.56	scaffold00935	93327
2584	CaLG4	CaSNP537	91.61	scaffold00676	142610
2585	CaLG4	STMS11	91.64	-	-
2586	CaLG4	CaSNP4093	91.85	scaffold02801	32710
2587	CaLG4	GAA47	91.88	-	-
2588	CaLG4	GA24	91.88	-	-
2589	CaLG4	CaSNP4297	91.97	scaffold02873	31010
2590	CaLG4	CaSNP2586	91.98	scaffold02281	50021
2591	CaLG4	NCPGR199	92.01	scaffold01942	57412
2592	CaLG4	CaTMS1058	92.09	-	-
2593	CaLG4	CaTMS726	92.13	-	-
2594	CaLG4	CaGMS37	92.27	-	-
2595	CaLG4	CaSNP4019	92.28	scaffold01302	86487
2596	CaLG4	CaSNP4682	92.4	-	-
2597	CaLG4	CaSNP2771	92.41	scaffold00623	133452
2598	CaLG4	CaTSNP6045	92.49	9080947	6822
2599	CaLG4	CaTSNP7031	92.58	scaffold03955	19888
2600	CaLG4	CaSNP2138	92.63	-	-
2601	CaLG4	CaSNP3904	92.76	scaffold01749	62291
2602	CaLG4	CaSNP3306	92.77	scaffold00394	219262
2603	CaLG4	CaSNP2107	92.78	scaffold00690	143657
2604	CaLG4	CaSNP2747	92.8	scaffold01448	68776
2605	CaLG4	CaSNP3408	92.8	scaffold01525	73377

2606	CaLG4	CaSNP4624	92.8	-	-
2607	CaLG4	CaSNP4659	92.8	9206026	19656
2608	CaLG4	CaSNP3923	92.84	scaffold01545	75348
2609	CaLG4	CaSNP4245	92.84	scaffold02277	45702
2610	CaLG4	CaSNP2195	92.85	9213581	11046
2611	CaLG4	CaSNP4947	92.88	scaffold03038	30003
2612	CaLG4	PIP213	92.93	-	-
2613	CaLG4	CaSNP3655	93.04	scaffold01696	59410
2614	CaLG4	CaTSNP7362	93.12	-	-
2615	CaLG4	CaTSNP7880	93.17	-	-
2616	CaLG4	CaTSNP8991	93.2	-	-
2617	CaLG4	CaTMS840	93.26	-	-
2618	CaLG4	CaSNP3507	93.67	scaffold01519	82040
2619	CaLG4	CESSR46	93.8	scaffold00024	630645
2620	CaLG4	CaSNP2960	93.87	scaffold01764	57226
2621	CaLG4	CaSNP3693	93.89	-	-
2622	CaLG4	CaSNP2705	93.89	scaffold01021	106682
2623	CaLG4	CaSNP3440	93.9	9211781	22526
2624	CaLG4	CaSNP4821	93.94	-	-
2625	CaLG4	CaSNP2192	94.01	scaffold00757	126776
2626	CaLG4	CaSNP2059	94.02	9211584	33331
2627	CaLG4	CaSNP2614	94.02	9101375	10303
2628	CaLG4	CaSNP3800	94.02	scaffold00923	106972
2629	CaLG4	CaSNP3854	94.02	scaffold02343	40208
2630	CaLG4	CaSNP3880	94.02	scaffold01131	97914
2631	CaLG4	CaSNP4103	94.02	scaffold02510	42807
2632	CaLG4	CaSNP4292	94.02	-	-
2633	CaLG4	CaSNP4696	94.02	scaffold01944	62674
2634	CaLG4	CaSNP3579	94.03	scaffold00815	115743

2635	CaLG4	CaSNP5081	94.03	scaffold01216	105697
2636	CaLG4	CaSNP5092	94.03	scaffold04239	17748
2637	CaLG4	CaSNP2199	94.03	scaffold00847	102005
2638	CaLG4	CaSNP2332	94.03	scaffold01134	95549
2639	CaLG4	CaSNP2997	94.03	-	-
2640	CaLG4	CaSNP3663	94.03	-	-
2641	CaLG4	CaSNP3978	94.03	scaffold01261	88198
2642	CaLG4	CaSNP4625	94.03	scaffold03507	29545
2643	CaLG4	CaSNP4793	94.03	scaffold03048	28474
2644	CaLG4	CaSNP4800	94.03	scaffold01496	80188
2645	CaLG4	CaSNP4958	94.03	scaffold01975	55611
2646	CaLG4	CaSNP1997	94.04	scaffold00413	182349
2647	CaLG4	CaSNP2125	94.04	scaffold02894	31557
2648	CaLG4	CaSNP2500	94.04	scaffold02610	34786
2649	CaLG4	CaSNP2675	94.04	scaffold00871	104720
2650	CaLG4	CaSNP2713	94.04	-	-
2651	CaLG4	CaSNP3043	94.04	scaffold01952	65546
2652	CaLG4	CaSNP3177	94.04	scaffold01901	60661
2653	CaLG4	CaSNP3184	94.04	scaffold01411	68825
2654	CaLG4	CaSNP3347	94.04	scaffold01710	55469
2655	CaLG4	CaSNP3380	94.04	scaffold01559	61267
2656	CaLG4	CaSNP3449	94.04	scaffold01921	50268
2657	CaLG4	CaSNP4645	94.04	-	-
2658	CaLG4	CaSNP2984	94.04	-	-
2659	CaLG4	CaSNP2432	94.04	scaffold01673	78263
2660	CaLG4	CaSNP2690	94.04	-	-
2661	CaLG4	CaSNP4554	94.04	9216055	30083
2662	CaLG4	CaSNP5027	94.05	9100433	21507
2663	CaLG4	CaSNP2376	94.06	scaffold00770	117120

2664	CaLG4	CaSNP3434	94.06	scaffold05720	10272
2665	CaLG4	CaSNP3859	94.06	scaffold00575	164196
2666	CaLG4	CaSNP2007	94.06	scaffold01274	87650
2667	CaLG4	CaSNP2294	94.07	scaffold00857	100083
2668	CaLG4	CaSNP4221	94.07	scaffold02718	33506
2669	CaLG4	CaSNP2109	94.08	scaffold01023	99831
2670	CaLG4	CaSNP3531	94.08	9213705	21426
2671	CaLG4	CaSNP3568	94.08	scaffold02419	48087
2672	CaLG4	CaSNP3951	94.08	9214756	21794
2673	CaLG4	CaSNP4555	94.08	scaffold02074	56319
2674	CaLG4	CaSNP2784	94.08	-	-
2675	CaLG4	CaSNP2140	94.09	9209198	48722
2676	CaLG4	NCPGR226	94.1	scaffold00708	144296
2677	CaLG4	CaSNP2574	94.1	scaffold00777	142455
2678	CaLG4	CaSNP2231	94.1	-	-
2679	CaLG4	CaSNP4481	94.1	-	-
2680	CaLG4	CaSNP3233	94.14	scaffold03082	44070
2681	CaLG4	CaSNP2623	94.15	scaffold00768	131025
2682	CaLG4	CaSNP1964	94.16	scaffold01276	84746
2683	CaLG4	CaSNP4647	94.16	scaffold06416	8736
2684	CaLG4	CaSNP4422	94.16	scaffold01239	80377
2685	CaLG4	CaSNP3927	94.16	scaffold02868	40639
2686	CaLG4	CaSNP4553	94.18	scaffold13301	2854
2687	CaLG4	CaGMS25	94.18	-	-
2688	CaLG4	CaTMS680	94.18	-	-
2689	CaLG4	CaSNP4214	94.18	9211325	5679
2690	CaLG4	CaSNP2045	94.21	scaffold00526	170225
2691	CaLG4	CaSNP2043	94.26	9210497	39308
2692	CaLG4	CaSNP4660	94.26	scaffold04084	24096

2693	CaLG4	CaSNP3256	94.26	-	-
2694	CaLG4	CaSNP3231	94.27	-	-
2695	CaLG4	CaSNP4528	94.33	scaffold02230	45030
2696	CaLG4	CaSNP4425	94.33	scaffold00318	212843
2697	CaLG4	CaSNP4560	94.33	scaffold02717	36901
2698	CaLG4	CaSNP2108	94.34	9214963	42307
2699	CaLG4	CaSNP4263	94.34	scaffold03344	35422
2700	CaLG4	CaSNP3936	94.35	scaffold00538	161728
2701	CaLG4	CaSNP2382	94.35	scaffold08405	5694
2702	CaLG4	CaSNP2883	94.35	scaffold02941	39690
2703	CaLG4	CaSNP3673	94.35	-	-
2704	CaLG4	CaSNP2237	94.35	scaffold00941	123999
2705	CaLG4	CaSNP2344	94.35	-	-
2706	CaLG4	CaSNP3357	94.35	scaffold03008	41690
2707	CaLG4	CaSNP3659	94.35	-	-
2708	CaLG4	CaSNP4212	94.36	scaffold02368	43161
2709	CaLG4	CaSNP2401	94.36	scaffold00242	253303
2710	CaLG4	CaSNP4238	94.36	scaffold00971	106621
2711	CaLG4	CaSNP4686	94.36	scaffold00255	227536
2712	CaLG4	CaSNP5135	94.36	scaffold03643	22996
2713	CaLG4	CaSNP2119	94.36	scaffold00160	293868
2714	CaLG4	CaSNP3079	94.36	scaffold00448	178538
2715	CaLG4	CaSNP3209	94.36	scaffold01880	66839
2716	CaLG4	CaSNP5138	94.37	-	-
2717	CaLG4	CaSNP3092	94.37	scaffold01633	80841
2718	CaLG4	CaSNP3097	94.37	9194117	15464
2719	CaLG4	CaSNP5023	94.37	scaffold02674	43740
2720	CaLG4	CaSNP3937	94.37	9213209	27614
2721	CaLG4	CaSNP2200	94.37	scaffold00852	105325

2722	CaLG4	CaSNP2749	94.37	scaffold00729	128256
2723	CaLG4	CaSNP2752	94.37	scaffold01191	87948
2724	CaLG4	CaSNP3129	94.37	scaffold00557	159521
2725	CaLG4	CaSNP3476	94.37	scaffold02479	45841
2726	CaLG4	CaSNP3599	94.37	-	-
2727	CaLG4	CaSNP3635	94.37	scaffold01288	81050
2728	CaLG4	CaSNP4108	94.37	scaffold02775	32419
2729	CaLG4	CaSNP4136	94.37	9085008	4080
2730	CaLG4	CaSNP4141	94.37	scaffold04918	13236
2731	CaLG4	CaSNP4150	94.37	-	-
2732	CaLG4	CaSNP4294	94.37	scaffold01319	81886
2733	CaLG4	CaSNP4697	94.37	scaffold04659	14602
2734	CaLG4	CaSNP4714	94.37	scaffold02234	48511
2735	CaLG4	CaSNP4971	94.37	scaffold01218	75636
2736	CaLG4	CaSNP5009	94.37	-	-
2737	CaLG4	CaSNP3311	94.37	scaffold01972	55787
2738	CaLG4	CaSNP3425	94.37	scaffold02199	46096
2739	CaLG4	CaSNP4895	94.37	scaffold00371	197156
2740	CaLG4	CaSNP3301	94.38	scaffold01185	112101
2741	CaLG4	CaSNP2147	94.38	scaffold02485	36788
2742	CaLG4	CaSNP2422	94.38	scaffold01041	95383
2743	CaLG4	CaSNP2482	94.38	scaffold02222	41883
2744	CaLG4	CaSNP2602	94.38	scaffold00844	132314
2745	CaLG4	CaSNP2702	94.38	scaffold00975	121365
2746	CaLG4	CaSNP2873	94.38	9215131	17921
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2748	CaLG4	CaSNP3232	94.38	scaffold00775	142429
2749	CaLG4	CaSNP3324	94.38	scaffold02139	49776
2750	CaLG4	CaSNP3328	94.38	9215534	11632

2751	CaLG4	CaSNP3360	94.38	-	-
2752	CaLG4	CaSNP3385	94.38	scaffold02177	43886
2753	CaLG4	CaSNP3703	94.38	scaffold02595	43769
2754	CaLG4	CaSNP4356	94.38	9211556	22437
2755	CaLG4	CaSNP4478	94.38	9202976	36066
2756	CaLG4	CaSNP4510	94.38	-	-
2757	CaLG4	CaSNP4529	94.38	9208387	29553
2758	CaLG4	CaSNP4983	94.38	scaffold03319	25691
2759	CaLG4	CaSNP2863	94.39	scaffold01132	106057
2760	CaLG4	CaSNP1952	94.39	scaffold00399	174849
2761	CaLG4	CaSNP2374	94.4	scaffold01215	81702
2762	CaLG4	CaSNP3739	94.4	-	-
2763	CaLG4	CaSNP4199	94.4	scaffold01038	93629
2764	CaLG4	CaSNP4865	94.4	scaffold03410	24384
2765	CaLG4	CaSNP3407	94.4	scaffold01605	77358
2766	CaLG4	CaSNP4761	94.41	-	-
2767	CaLG4	CaSNP3183	94.41	-	-
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2770	CaLG4	CaSNP4679	94.41	-	-
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2772	CaLG4	CaSNP4118	94.42	scaffold00751	128163
2773	CaLG4	CaSNP3398	94.42	scaffold02538	48727
2774	CaLG4	CaSNP3862	94.42	scaffold01740	55295
2775	CaLG4	CaSNP4851	94.42	-	-
2776	CaLG4	CaSNP2103	94.42	scaffold01648	92128
2777	CaLG4	CaSNP2739	94.42	-	-
2778	CaLG4	CaSNP3124	94.42	scaffold02317	44700
2779	CaLG4	CaSNP3666	94.42	-	-

2780	CaLG4	CaSNP4232	94.42	scaffold00738	137390
2781	CaLG4	CaSNP4863	94.42	scaffold03122	34097
2782	CaLG4	CaSNP3905	94.44	scaffold00376	195666
2783	CaLG4	CaSNP3499	94.44	scaffold02052	60579
2784	CaLG4	CaSNP4330	94.44	scaffold02696	36919
2785	CaLG4	CaSNP2956	94.44	scaffold01958	49866
2786	CaLG4	CaSNP2268	94.44	scaffold00423	177960
2787	CaLG4	CaSNP3721	94.44	scaffold01123	102483
2788	CaLG4	CaSNP4715	94.44	9176412	28258
2789	CaLG4	CaSNP4919	94.46	scaffold03102	28652
2790	CaLG4	CaSNP3751	94.48	scaffold04629	14586
2791	CaLG4	CaSNP2952	94.49	-	-
2792	CaLG4	CaSNP4563	94.51	scaffold03153	32881
2793	CaLG4	CaSNP2454	94.51	scaffold01386	77749
2794	CaLG4	CaSNP3649	94.52	9205346	33281
2795	CaLG4	CaSNP2489	94.53	-	-
2796	CaLG4	CaSNP4218	94.55	scaffold04113	18954
2797	CaLG4	CaSNP2634	94.55	scaffold00309	228419
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2804	CaLG4	CaSNP4352	94.69	scaffold01004	109458
2805	CaLG4	CaSNP3559	94.7	scaffold09729	4569
2806	CaLG4	CaSNP2641	94.78	scaffold00035	529391
2807	CaLG4	CaSNP4631	94.79	9166279	6293
2808	CaLG4	NCPGR75	95.39	-	-

2809	CaLG4	NCPGR80	95.5	scaffold00003	1127306
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2817	CaLG4	CaTSNP6231	96.25	-	-
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2820	CaLG4	CaTSNP6738	96.36	scaffold00754	113481
2821	CaLG4	CaTSNP8399	96.36	-	-
2822	CaLG4	CaTSNP6328	96.36	-	-
2823	CaLG4	CaTSNP6551	96.36	-	-
2824	CaLG4	CaTSNP6599	96.36	9101335	3732
2825	CaLG4	CaTSNP7751	96.38	9195470	13599
2826	CaLG4	CaTSNP6156	96.45	-	-
2827	CaLG4	CaTSNP6858	96.45	-	-
2828	CaLG4	CaTSNP9120	96.45	9202424	12422
2829	CaLG4	CaTSNP7524	96.5	-	-
2830	CaLG4	CaTSNP8048	96.55	-	-
2831	CaLG4	CaTSNP6359	96.55	-	-
2832	CaLG4	CaTSNP6030	96.58	-	-
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2834	CaLG4	CaTSNP8078	96.58	scaffold00048	532239
2835	CaLG4	CaTSNP8620	96.58	-	-
2836	CaLG4	CaTSNP7862	96.59	-	-
2837	CaLG4	CaTSNP6527	96.6	-	-

2838	CaLG4	CaTSNP9133	96.66	-	-
2839	CaLG4	CaTSNP6421	96.66	-	-
2840	CaLG4	CaTSNP7491	96.74	9183474	4143
2841	CaLG4	CaTSNP7555	96.8	-	-
2842	CaLG4	CaTSNP9059	96.8	-	-
2843	CaLG4	CaTSNP6832	96.98	scaffold03776	20418
2844	CaLG4	CaTSNP8880	96.99	-	-
2845	CaLG4	CaTSNP6221	97	-	-
2846	CaLG4	CaTSNP8451	97.15	scaffold03191	26847
2847	CaLG4	CaTSNP6101	97.18	-	-
2848	CaLG4	CaTMS1074	97.54	-	-
2849	CaLG4	CaTSNP6918	97.64	9204332	22640
2850	CaLG4	CaTSNP6979	97.64	-	-
2851	CaLG4	CaTSNP8288	97.64	-	-
2852	CaLG4	CaTSNP6764	97.66	-	-
2853	CaLG4	CaTMS699	97.68	-	-
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2855	CaLG4	CaTSNP6013	97.8	9200885	13994
2856	CaLG4	CaTSNP7509	97.8	-	-
2857	CaLG4	CaTSNP8367	97.8	9121324	22756
2858	CaLG4	CaTSNP8824	97.8	-	-
2859	CaLG4	CaTSNP6537	97.82	-	-
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2861	CaLG4	CaTSNP8284	97.84	scaffold06039	9480
2862	CaLG4	CaTSNP6721	97.85	-	-
2863	CaLG4	CaTSNP8460	97.87	-	-
2864	CaLG4	CaTSNP7247	97.87	9214935	20147
2865	CaLG4	CaTSNP6365	97.88	-	-
2866	CaLG4	CaTMS773	97.9	-	-

2867	CaLG4	CaTSNP8037	97.93	-	-
2868	CaLG4	CaTSNP6399	97.95	-	-
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2870	CaLG4	CaTSNP8891	97.96	scaffold00487	163871
2871	CaLG4	CaTSNP6893	97.97	-	-
2872	CaLG4	CaSNP2925	98.06	-	-
2873	CaLG4	CaTSNP6036	98.12	-	-
2874	CaLG4	CaTSNP8141	98.39	-	-
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2876	CaLG4	CaSNP4438	98.52	scaffold04594	17806
2877	CaLG4	CaSNP2178	98.63	-	-
2878	CaLG4	CaTMS749	98.7	-	-
2879	CaLG4	CaSNP5045	99	-	-
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2881	CaLG4	CaSNP2472	99.42	-	-
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2883	CaLG4	CaTSNP6136	99.62	-	-
2884	CaLG4	CaTSNP9037	99.62	-	-
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2886	CaLG4	CaTSNP8895	99.66	-	-
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2890	CaLG4	CaTSNP9079	99.69	-	-
2891	CaLG4	CaTSNP6872	99.75	-	-
2892	CaLG4	CaTSNP7070	99.75	-	-
2893	CaLG4	CaTSNP6185	99.76	-	-
2894	CaLG4	CaSNP672	100	scaffold00239	257882
2895	CaLG4	CaSNP882	100	scaffold00131	310065

2896	CaLG4	CaSNP529	100	scaffold00634	122739
2897	CaLG4	CaSNP4461	100.1	-	-
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2899	CaLG4	CaTSNP6289	100.9	-	-
2900	CaLG4	CaTSNP6453	100.9	-	-
2901	CaLG4	CaTSNP7002	101	-	-
2902	CaLG4	CaTSNP7448	101.1	-	-
2903	CaLG4	CaTSNP8391	101.1	-	-
2904	CaLG4	CaTSNP9066	101.2	-	-
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2906	CaLG4	CaTSNP6807	101.5	-	-
2907	CaLG4	CaTSNP8227	101.5	-	-
2908	CaLG4	CaSNP2458	102.6	-	-
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2910	CaLG4	CaSNP2930	102.8	-	-
2911	CaLG4	CaSNP3753	102.9	-	-
2912	CaLG4	CaTMS738	103	-	-
2913	CaLG4	CaTSNP8414	103.3	-	-
2914	CaLG4	CaTSNP6261	103.3	scaffold00384	187713
2915	CaLG4	CaTSNP8677	103.4	-	-
2916	CaLG4	CaTSNP6058	103.4	-	-
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2918	CaLG4	CaSNP2600	103.4	-	-
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2921	CaLG4	CaSNP2184	103.5	-	-
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2923	CaLG4	CaSNP3771	103.6	-	-
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2925	CaLG4	CaTSNP6002	104.1	-	-
2926	CaLG4	CaSNP3029	104.2	scaffold02210	54732
2927	CaLG4	CaTSNP6439	104.2	scaffold00428	166793
2928	CaLG4	CaTSNP6634	104.2	scaffold00616	130510
2929	CaLG4	CaTSNP6694	104.2	scaffold01050	105447
2930	CaLG4	CaTSNP9054	104.2	-	-
2931	CaLG4	CaSNP4054	104.2	-	-
2932	CaLG4	CaTSNP7259	104.3	scaffold01973	48717
2933	CaLG4	CaSNP2384	104.3	-	-
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2942	CaLG4	CaSNP2879	104.7	-	-
2943	CaLG4	CaSNP806	104.8	-	-
2944	CaLG4	CaSNP26	104.8	scaffold00012	765023
2945	CaLG4	CaSNP618	104.8	scaffold00019	627903
2946	CaLG4	CaSNP3210	104.8	-	-
2947	CaLG4	CaSNP565	104.9	-	-
2948	CaLG4	CaSNP609	104.9	-	-
2949	CaLG4	CaSNP299	104.9	-	-
2950	CaLG4	CaSNP259	105	-	-
2951	CaLG4	CaSNP3824	105	scaffold04570	14930
2952	CaLG4	CaSNP168	105	-	-
2953	CaLG4	CaSNP3692	105	scaffold01003	93954

2954	CaLG4	CaSNP4985	105	-	-
2955	CaLG4	CaSNP4344	105.1	-	-
2956	CaLG4	CaSNP406	105.1	-	-
2957	CaLG4	CaSNP703	105.1	-	-
2958	CaLG4	CaSNP4816	105.1	-	-
2959	CaLG4	CaSNP384	105.2	-	-
2960	CaLG4	CaSNP262	105.2	-	-
2961	CaLG4	CaSNP699	105.2	scaffold00037	498102
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2964	CaLG4	CaSNP2380	105.3	scaffold00115	325533
2965	CaLG4	CaSNP3103	105.4	-	-
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2967	CaLG4	CaSNP2799	105.5	scaffold02299	54340
2968	CaLG4	CaSNP286	105.6	scaffold00781	121170
2969	CaLG4	CaSNP3827	105.7	scaffold02250	41314
2970	CaLG4	CaSNP2889	105.8	9196384	21012
2971	CaLG4	CaSNP2994	105.9	-	-
2972	CaLG4	CaSNP2186	106	-	-
2973	CaLG4	CaSNP4752	106	-	-
2974	CaLG4	CaSNP3386	106.1	-	-
2975	CaLG4	CaSNP4079	106.1	-	-
2976	CaLG4	CaSNP1931	106.1	-	-
2977	CaLG4	CaSNP2598	106.1	-	-
2978	CaLG4	CaSNP2709	106.2	-	-
2979	CaLG4	CaTMS790	106.3	-	-
2980	CaLG4	CaTSNP6728	106.3	-	-
2981	CaLG4	CaGMS1310	106.3	-	-
2982	CaLG4	CaSNP2534	106.4	-	-

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2986	CaLG4	CaSNP185	106.4	-	-
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2996	CaLG4	CaTSNP7003	107.1	-	-
2997	CaLG4	CaTSNP7381	107.1	-	-
2998	CaLG4	CaTSNP7142	107.1	-	-
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3003	CaLG4	CaSNP875	107.2	9199317	35847
3004	CaLG4	CaTSNP6023	107.3	-	-
3005	CaLG4	CaTSNP8814	107.3	-	-
3006	CaLG4	CaTSNP8656	107.3	-	-
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3009	CaLG4	CaTSNP7200	107.4	-	-
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3011	CaLG4	CaTSNP8572	107.4	-	-

3012	CaLG4	CaTSNP6919	107.4	-	-
3013	CaLG4	CaTSNP9156	107.5	-	-
3014	CaLG4	CaTSNP6131	107.5	-	-
3015	CaLG4	CaTSNP6466	107.5	scaffold00707	113119
3016	CaLG4	CaTSNP8920	107.5	-	-
3017	CaLG4	CaTSNP6187	107.5	scaffold07836	6313
3018	CaLG4	CaTSNP6420	107.5	-	-
3019	CaLG4	CaTSNP8042	107.5	-	-
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3022	CaLG4	CaTSNP7227	107.5	scaffold00663	125126
3023	CaLG4	CaTSNP7701	107.6	-	-
3024	CaLG4	CaTSNP7945	107.6	scaffold00312	196739
3025	CaLG4	CaTSNP6639	107.6	-	-
3026	CaLG4	CaTSNP7252	107.6	-	-
3027	CaLG4	CaTSNP7653	107.6	-	-
3028	CaLG4	CaTSNP8030	107.6	-	-
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3032	CaLG4	CaTSNP6676	107.6	scaffold00126	310627
3033	CaLG4	CaTSNP8791	107.6	-	-
3034	CaLG4	CaSNP46	107.6	-	-
3035	CaLG4	CaSNP76	107.7	-	-
3036	CaLG4	CaTSNP6557	107.8	scaffold00544	177745
3037	CaLG4	CaTSNP6710	107.8	-	-
3038	CaLG4	CaTSNP8731	107.8	-	-
3039	CaLG4	CaTSNP6137	107.8	scaffold00277	198135
3040	CaLG4	CaTSNP6358	107.8	-	-

3041	CaLG4	CaTSNP8567	107.8	-	-
3042	CaLG4	CaTSNP8264	107.8	-	-
3043	CaLG4	CaTSNP7907	107.8	-	-
3044	CaLG4	CaTSNP6069	107.8	-	-
3045	CaLG4	CaTSNP8858	107.8	scaffold00351	199393
3046	CaLG4	CaTSNP7075	107.8	-	-
3047	CaLG4	CaTSNP6722	107.8	-	-
3048	CaLG4	CaTSNP8032	107.8	-	-
3049	CaLG4	CaSNP54	107.8	-	-
3050	CaLG4	CaTSNP6820	107.8	-	-
3051	CaLG4	CaTSNP7380	107.8	scaffold01111	82599
3052	CaLG4	CaSNP754	107.9	-	-
3053	CaLG4	CaTSNP6473	107.9	scaffold00100	344856
3054	CaLG4	CaTSNP6305	107.9	scaffold00895	102560
3055	CaLG4	CaTSNP6968	107.9	-	-
3056	CaLG4	CaTSNP7025	107.9	9203322	58589
3057	CaLG4	CaTSNP7584	107.9	-	-
3058	CaLG4	CaTSNP8840	107.9	-	-
3059	CaLG4	CaTSNP6363	107.9	scaffold00175	315488
3060	CaLG4	CaSNP908	107.9	-	-
3061	CaLG4	CaTSNP8746	107.9	-	-
3062	CaLG4	CaTSNP7560	107.9	-	-
3063	CaLG4	CaTSNP7908	107.9	-	-
3064	CaLG4	CaTSNP6232	108	-	-
3065	CaLG4	CaTSNP6011	108	9206718	49002
3066	CaLG4	CaTSNP6920	108	-	-
3067	CaLG4	CaTSNP7246	108	-	-
3068	CaLG4	CaTSNP8723	108	-	-
3069	CaLG4	CaTSNP6617	108	scaffold01585	77973

3070	CaLG4	CaTSNP6895	108	scaffold02487	60754
3071	CaLG4	CaTSNP7446	108	scaffold00860	128619
3072	CaLG4	CaTSNP7022	108.1	scaffold00178	267143
3073	CaLG4	CaTSNP7195	108.1	-	-
3074	CaLG4	CaTSNP7007	108.1	scaffold09211	4946
3075	CaLG4	CaTSNP6343	108.1	-	-
3076	CaLG4	CaTSNP7585	108.1	scaffold02912	38899
3077	CaLG4	CaTSNP6105	108.1	-	-
3078	CaLG4	CaTSNP7460	108.1	scaffold10814	3911
3079	CaLG4	CaTSNP7064	108.1	-	-
3080	CaLG4	CaTSNP6046	108.1	scaffold00234	232008
3081	CaLG4	CaTSNP7078	108.1	-	-
3082	CaLG4	CaTSNP8913	108.1	-	-
3083	CaLG4	CaSNP51	108.2	scaffold00744	108591
3084	CaLG4	CaTSNP7090	108.2	-	-
3085	CaLG4	CaTSNP6901	108.2	scaffold01229	81589
3086	CaLG4	CaTSNP6383	108.2	-	-
3087	CaLG4	CaSNP533	108.2	-	-
3088	CaLG4	CaTSNP6016	108.2	scaffold00659	129757
3089	CaLG4	CaTSNP8392	108.2	-	-
3090	CaLG4	CaTSNP6499	108.2	-	-
3091	CaLG4	CaTSNP6481	108.2	-	-
3092	CaLG4	CaTSNP8186	108.2	scaffold00666	126661
3093	CaLG4	CaTSNP7183	108.2	-	-
3094	CaLG4	CaSNP132	108.4	scaffold00196	240961
3095	CaLG4	CaTSNP6402	108.4	-	-
3096	CaLG4	CaTSNP8868	108.4	-	-
3097	CaLG4	CaTSNP6643	108.4	scaffold05492	20893
3098	CaLG4	CaTSNP8803	108.4	-	-

3099	CaLG4	CaTSNP8265	108.4	-	-
3100	CaLG4	CaTSNP7035	108.4	-	-
3101	CaLG4	CaTSNP8535	108.4	scaffold05161	12471
3102	CaLG4	CaTSNP8589	108.4	-	-
3103	CaLG4	CaTSNP8098	108.4	-	-
3104	CaLG4	CaTSNP8263	108.5	-	-
3105	CaLG4	CaTSNP8492	108.5	-	-
3106	CaLG4	CaTSNP8792	108.5	-	-
3107	CaLG4	CaTSNP7103	108.5	scaffold00863	110642
3108	CaLG4	CaTSNP7198	108.5	-	-
3109	CaLG4	CaTSNP6529	108.6	-	-
3110	CaLG4	CaSNP309	108.6	-	-
3111	CaLG4	CaSNP431	108.6	scaffold02503	36471
3112	CaLG4	CaSNP747	108.6	scaffold00087	350568
3113	CaLG4	CaSNP338	108.6	9182217	25467
3114	CaLG4	CaTSNP6972	108.7	-	-
3115	CaLG4	CaTSNP8741	108.8	-	-
3116	CaLG4	CaSNP777	108.8	9183775	25877
3117	CaLG4	CaTSNP8743	108.8	-	-
3118	CaLG4	CaTSNP8976	108.8	-	-
3119	CaLG4	CaTSNP8686	108.8	scaffold00103	309727
3120	CaLG4	CaTSNP9021	108.9	-	-
3121	CaLG4	CaTSNP6204	108.9	-	-
3122	CaLG4	CaTSNP6199	108.9	-	-
3123	CaLG4	CaTSNP6334	108.9	-	-
3124	CaLG4	CaTSNP9046	108.9	-	-
3125	CaLG4	CaSNP176	109.2	-	-
3126	CaLG4	CaSNP831	109.2	-	-
3127	CaLG4	CaSNP38	109.3	-	-

3128	CaLG4	CaSNP129	109.3	scaffold00476	150741
3129	CaLG4	ESNP24	109.4	-	-
3130	CaLG4	CaSNP99	109.4	-	-
3131	CaLG4	CaTSNP6052	109.5	9207820	96412
3132	CaLG4	CaSNP721	109.6	-	-
3133	CaLG4	CaSNP265	109.7	-	-
3134	CaLG4	CaTSNP8747	109.8	-	-
3135	CaLG4	CaGMS30	109.9	-	-
3136	CaLG4	CaTMS556	109.9	-	-
3137	CaLG4	CaSNP712	110	-	-
3138	CaLG4	CaSNP3729	110	-	-
3139	CaLG4	CaSNP693	110.2	-	-
3140	CaLG4	CaTSNP8700	110.5	-	-
3141	CaLG4	CaSNP189	110.5	-	-
3142	CaLG4	CaTSNP7587	110.5	-	-
3143	CaLG4	CaSNP158	110.5	-	-
3144	CaLG4	CaTSNP8612	110.6	9211061	39550
3145	CaLG4	CaSNP709	110.6	-	-
3146	CaLG4	CaSNP29	110.6	-	-
3147	CaLG4	CaSNP677	110.7	-	-
3148	CaLG4	CaSNP736	110.7	-	-
3149	CaLG4	CaSNP264	110.7	-	-
3150	CaLG4	CaSNP272	110.7	-	-
3151	CaLG4	CaSNP311	110.7	-	-
3152	CaLG4	CaSNP282	110.9	-	-
3153	CaLG4	CaSNP6	111	-	-
3154	CaLG4	ESNP5	111.1	-	-
3155	CaLG4	ESNP1	111.1	-	-
3156	CaLG4	CaTSNP7057	111.2	-	-

3157	CaLG4	CaSNP524	111.2	-	-
3158	CaLG4	CaSNP364	111.2	-	-
3159	CaLG4	CaTSNP8985	111.2	-	-
3160	CaLG4	CaTSNP7056	111.2	-	-
3161	CaLG4	CaTSNP7191	111.6	-	-
3162	CaLG4	CaTSNP7632	111.6	-	-
3163	CaLG4	CaTSNP7807	111.6	-	-
3164	CaLG4	CaSNP58	111.7	-	-
3165	CaLG4	CaSNP811	111.8	scaffold00179	250626
3166	CaLG4	CaSNP718	111.8	-	-
3167	CaLG4	CaSNP89	111.8	-	-
3168	CaLG4	CaSNP725	111.9	scaffold00117	304179
3169	CaLG4	CaSNP803	112.1	-	-
3170	CaLG4	CaSNP845	112.1	scaffold02265	44220
3171	CaLG4	CaSNP737	112.2	9122074	74661
3172	CaLG4	CaSNP877	112.2	-	-
3173	CaLG4	CaSNP418	112.2	-	-
3174	CaLG4	CaSNP241	112.3	-	-
3175	CaLG4	CaSNP407	112.3	scaffold00173	246289
3176	CaLG4	CaSNP134	112.5	-	-
3177	CaLG4	CaTSNP7879	112.5	-	-
3178	CaLG4	CaTSNP7039	112.5	-	-
3179	CaLG4	CaTSNP7670	112.8	-	-
3180	CaLG4	CaTSNP8074	113.5	scaffold00737	117360
3181	CaLG4	CaTSNP7202	113.5	-	-
3182	CaLG4	CaTSNP6224	113.5	-	-
3183	CaLG4	CaTSNP7796	113.5	-	-
3184	CaLG4	CaTSNP8837	113.5	9215262	28085
3185	CaLG4	CaTSNP6747	113.5	-	-

3186	CaLG4	CaTSNP6300	113.6	-	-
3187	CaLG4	CaTSNP7043	113.6	9116096	62036
3188	CaLG4	CaTSNP7096	113.6	-	-
3189	CaLG4	CaTSNP7732	113.6	-	-
3190	CaLG4	CaTSNP8084	113.6	-	-
3191	CaLG4	CaTSNP8522	113.6	-	-
3192	CaLG4	CaTSNP8999	113.6	-	-
3193	CaLG4	CaTSNP7250	113.6	-	-
3194	CaLG4	CaTSNP8398	113.6	-	-
3195	CaLG4	CaTSNP6678	113.6	-	-
3196	CaLG4	CaTSNP6682	113.6	-	-
3197	CaLG4	CaTSNP7476	113.6	-	-
3198	CaLG4	CaTSNP7340	113.6	-	-
3199	CaLG4	CaTSNP9086	113.6	-	-
3200	CaLG4	CaTSNP9082	113.7	-	-
3201	CaLG4	CaSNP5054	114.3	-	-
3202	CaLG4	CaGMS1240	114.4	-	-
3203	CaLG4	CaSNP1941	114.4	scaffold00390	191140
3204	CaLG4	CaSNP5130	114.4	9184070	27076
3205	CaLG4	CaSNP2328	114.6	-	-
3206	CaLG4	CaSNP3726	114.7	-	-
3207	CaLG4	CaSNP4089	115.2	-	-
3208	CaLG4	CaTMS751	115.7	-	-
3209	CaLG4	CaSNP2164	115.8	-	-
3210	CaLG4	CaSNP4055	115.9	-	-
3211	CaLG4	CaTSNP6295	115.9	-	-
3212	CaLG4	CaSNP3077	116	scaffold01819	55226
3213	CaLG4	CaTSNP9013	116	-	-
3214	CaLG4	CaTSNP8586	116.3	-	-

3215	CaLG4	CaTSNP8290	116.3	-	-
3216	CaLG4	CaTSNP8247	116.6	-	-
3217	CaLG4	CaSNP2806	116.8	-	-
3218	CaLG4	CaTSNP7109	116.9	-	-
3219	CaLG4	CaTSNP7148	117.3	-	-
3220	CaLG4	CaTSNP8249	117.3	-	-
3221	CaLG4	CaTSNP6094	117.3	-	-
3222	CaLG4	CaTSNP7278	117.3	-	-
3223	CaLG4	CaTSNP6526	117.6	-	-
3224	CaLG4	CaTSNP6887	117.6	-	-
3225	CaLG4	CaSNP2429	117.6	-	-
3226	CaLG4	CaSNP1935	117.7	scaffold06902	7580
3227	CaLG4	CaSNP3670	117.7	-	-
3228	CaLG4	CaTSNP7823	117.9	scaffold00442	164395
3229	CaLG4	CaTSNP7561	118	9185546	21887
3230	CaLG4	CaTSNP8820	118	-	-
3231	CaLG4	CaTSNP7605	118	-	-
3232	CaLG4	CaTSNP8736	118	-	-
3233	CaLG4	CaTSNP6570	118.1	-	-
3234	CaLG4	CaTSNP7661	118.1	-	-
3235	CaLG4	CaTSNP8729	118.1	-	-
3236	CaLG4	CaTSNP6609	118.1	-	-
3237	CaLG4	CaTSNP6718	118.2	-	-
3238	CaLG4	CaTSNP7516	118.3	-	-
3239	CaLG4	CaTSNP7551	118.3	-	-
3240	CaLG4	CaTSNP7221	118.5	-	-
3241	CaLG4	CaTSNP7348	118.5	scaffold00060	429712
3242	CaLG4	CaTSNP6564	118.5	-	-
3243	CaLG4	CaTSNP7290	118.5	-	-

3244	CaLG4	CaTSNP6528	118.5	-	-
3245	CaLG4	CaTSNP7731	118.5	-	-
3246	CaLG4	CaTSNP8968	118.6	-	-
3247	CaLG4	CaTSNP6583	118.6	-	-
3248	CaLG4	CaTSNP6808	118.6	-	-
3249	CaLG4	CaTSNP7449	118.6	scaffold00124	301320
3250	CaLG4	CaTSNP7688	118.6	-	-
3251	CaLG4	CaTSNP7832	118.6	-	-
3252	CaLG4	CaTSNP8149	118.6	-	-
3253	CaLG4	CaTSNP8520	118.6	-	-
3254	CaLG4	CaTSNP6659	118.6	-	-
3255	CaLG4	CaTSNP7425	118.6	-	-
3256	CaLG4	CaTSNP7436	118.6	-	-
3257	CaLG4	CaTSNP6107	118.7	-	-
3258	CaLG4	CaTSNP6218	118.7	-	-
3259	CaLG4	CaTSNP6139	118.7	-	-
3260	CaLG4	CaTSNP6017	118.7	-	-
3261	CaLG4	CaTSNP7363	118.7	-	-
3262	CaLG4	CaTSNP6802	118.7	-	-
3263	CaLG4	CaTSNP7933	118.7	-	-
3264	CaLG4	CaTSNP6372	118.7	9199740	31695
3265	CaLG4	CaTSNP6312	118.7	-	-
3266	CaLG4	CaTSNP6301	118.7	-	-
3267	CaLG4	CaTSNP8453	118.7	-	-
3268	CaLG4	CaTSNP8605	118.7	9137468	59730
3269	CaLG4	CaTSNP9152	118.7	9203698	36041
3270	CaLG4	CaTSNP8548	118.8	9120772	14918
3271	CaLG4	CaTSNP7804	118.8	-	-
3272	CaLG4	CaTSNP8270	118.8	-	-

3273	CaLG4	CaTSNP7619	118.8	-	-
3274	CaLG4	CaTSNP8235	118.8	-	-
3275	CaLG4	CaTSNP7311	118.8	scaffold00021	622492
3276	CaLG4	CaTSNP6671	118.8	scaffold01573	68081
3277	CaLG4	CaTSNP6888	118.8	-	-
3278	CaLG4	CaTSNP7430	118.8	-	-
3279	CaLG4	CaTSNP7611	118.9	-	-
3280	CaLG4	CaTSNP7783	118.9	scaffold06182	19490
3281	CaLG4	CaTSNP8276	118.9	9204203	31447
3282	CaLG4	CaTSNP6568	118.9	scaffold00053	455825
3283	CaLG4	CaTSNP7450	118.9	scaffold00097	338808
3284	CaLG4	CaTSNP7495	118.9	-	-
3285	CaLG4	CaTSNP7422	118.9	-	-
3286	CaLG4	CaTSNP7987	118.9	scaffold01125	96726
3287	CaLG4	CaTSNP8783	118.9	scaffold00537	176994
3288	CaLG4	CaSNP3795	119	scaffold06897	8378
3289	CaLG4	CaSNP1945	119.6	-	-
3290	CaLG4	CaSNP2404	120.1	-	-
3291	CaLG4	CaSNP4501	120.4	-	-
3292	CaLG4	CaSNP3453	120.5	-	-
3293	CaLG4	CaSNP3928	120.5	scaffold05404	18201
3294	CaLG4	CaSNP5082	120.6	-	-
3295	CaLG4	CaSNP2342	120.8	-	-
3296	CaLG4	CaSNP1922	121.6	-	-
3297	CaLG4	CaTMS980	123	-	-
3298	CaLG4	CaTMS574	123.4	-	-
3299	CaLG4	CaTMS785	125.4	-	-
3300	CaLG4	NCPGR21	125.6	scaffold00088	377425
3301	CaLG4	CaTMS1117	126.4	-	-

3302	CaLG4	CaTMS1059	129.8	-	-
3303	CaLG4	CaGMS1136	129.8	-	-
3304	CaLG4	CaTMS1005	129.8	-	-
3305	CaLG4	CaTMS877	129.8	-	-
3306	CaLG4	CaGMS1134	129.8	-	-
3307	CaLG4	CaGMS45	129.8	-	-
3308	CaLG4	CaTMS1015	129.8	-	-
3309	CaLG4	CaTMS852	129.8	-	-
3310	CaLG4	CaTMS926	129.8	-	-
3311	CaLG4	CaTMS995	129.8	-	-
3312	CaLG4	CaGMS1253	129.9	-	-
3313	CaLG4	CaTMS1101	129.9	-	-
3314	CaLG4	CaTMS613	129.9	-	-
3315	CaLG4	CaTMS639	129.9	-	-
3316	CaLG4	CaTMS756	129.9	-	-
3317	CaLG4	CaTMS895	129.9	-	-
3318	CaLG4	CaTMS889	129.9	-	-
3319	CaLG4	CaGMS1282	129.9	-	-
3320	CaLG4	CaTMS591	129.9	-	-
3321	CaLG4	CaTMS642	129.9	-	-
3322	CaLG4	CaTMS924	129.9	-	-
3323	CaLG4	CaTMS1113	130.4	-	-
3324	CaLG4	CaGMS1169	130.5	-	-
3325	CaLG4	NCPGR22	131.9	-	-
3326	CaLG4	CaTMS1006	132.5	-	-
3327	CaLG4	CaTMS770	132.5	-	-
3328	CaLG4	NCPGR140	134.4	scaffold02879	30893
3329	CaLG4	CaTMS683	136.2	-	-
3330	CaLG4	CaTMS991	136.9	-	-

3331	CaLG4	CEST106	137.3	-	-
3332	CaLG4	CaGMS1139	137.8	-	-
3333	CaLG4	CaTMS1087	138.4	-	-
3334	CaLG4	CEST109	140	scaffold00454	165732
3335	CaLG4	CESSR173	140.3	scaffold03737	20756
3336	CaLG4	CESSR122	142.3	-	-
3337	CaLG4	CaTMS644	143.2	-	-
3338	CaLG4	PIP186	146.5	-	-
3339	CaLG4	CESSR141	148.8	scaffold00062	433485
3340	CaLG5	NCPGR273	0	scaffold06259	8918
3341	CaLG5	CaTMS679	1.401	-	-
3342	CaLG5	CaTMS854	2.606	-	-
3343	CaLG5	CaGMS1172	9.877	-	-
3344	CaLG5	CaTMS972	10.33	-	-
3345	CaLG5	CaTMS1012	10.65	-	-
3346	CaLG5	CaTMS617	10.99	-	-
3347	CaLG5	CaTMS730	12.4	-	-
3348	CaLG5	CaTMS894	12.4	-	-
3349	CaLG5	CaTMS848	12.42	-	-
3350	CaLG5	CaTMS780	14.18	-	-
3351	CaLG5	CaTMS984	15	-	-
3352	CaLG5	CaTMS973	15.21	-	-
3353	CaLG5	CaTMS966	15.26	-	-
3354	CaLG5	CaTMS655	16.42	-	-
3355	CaLG5	CaTMS806	16.42	-	-
3356	CaLG5	CaTMS619	16.57	-	-
3357	CaLG5	CaTMS958	16.66	-	-
3358	CaLG5	CaTMS577	16.91	-	-
3359	CaLG5	NCPGR183	19.48	scaffold08178	5962

3360	CaLG5	CaTMS657	20.28	-	-
3361	CaLG5	CaGMS1261	22	-	-
3362	CaLG5	CaTMS1008	22.01	-	-
3363	CaLG5	CaTMS887	22.51	-	-
3364	CaLG5	CaTMS636	22.82	-	-
3365	CaLG5	CaTMS987	23.47	-	-
3366	CaLG5	PIP195	23.6	-	-
3367	CaLG5	CaTMS614	24.04	-	-
3368	CaLG5	CaGMS6	24.09	-	-
3369	CaLG5	CaTMS554	24.97	-	-
3370	CaLG5	CaTMS725	25.11	-	-
3371	CaLG5	CaTMS710	25.67	-	-
3372	CaLG5	CaTMS649	27.02	-	-
3373	CaLG5	CaTMS1065	27.27	-	-
3374	CaLG5	CaTMS621	27.27	-	-
3375	CaLG5	CaTMS1086	27.36	-	-
3376	CaLG5	CaGMS1168	27.98	-	-
3377	CaLG5	CaGMS1294	27.99	-	-
3378	CaLG5	CaGMS1324	28.04	-	-
3379	CaLG5	CaTMS660	28.14	-	-
3380	CaLG5	CaTMS567	28.15	-	-
3381	CaLG5	CaTMS827	28.22	-	-
3382	CaLG5	CaTMS996	28.42	-	-
3383	CaLG5	CaTMS1060	28.91	-	-
3384	CaLG5	CaTMS739	29.24	-	-
3385	CaLG5	CaTMS1121	30.36	-	-
3386	CaLG5	CEST97	32.66	-	-
3387	CaLG5	CaGMS1201	34.87	-	-
3388	CaLG5	CaTMS563	35.06	-	-

3389	CaLG5	NCPGR53	37.16	-	-
3390	CaLG5	CaSNP4827	37.5	-	-
3391	CaLG5	NCPGR153	37.85	scaffold02988	41961
3392	CaLG5	TR29	40.49	-	-
3393	CaLG5	CaTMS913	43.08	-	-
3394	CaLG5	TA39	43.53	-	-
3395	CaLG5	GAA42	44.45	-	-
3396	CaLG5	CEST166	44.94	-	-
3397	CaLG5	TA71	45.86	-	-
3398	CaLG5	STMS7	47.17	-	-
3399	CaLG5	TR59	47.46	-	-
3400	CaLG5	GA4	47.54	-	-
3401	CaLG5	TS53	47.67	-	-
3402	CaLG5	TA179	47.82	-	-
3403	CaLG5	TAAS	47.87	-	-
3404	CaLG5	TS43	48.53	-	-
3405	CaLG5	NCPGR182	50.37	-	-
3406	CaLG5	CEST62	51.74	-	-
3407	CaLG5	NCPGR189	52.11	-	-
3408	CaLG5	NCPGR252	52.21	-	-
3409	CaLG5	NCPGR145	52.25	-	-
3410	CaLG5	NCPGR105	52.33	scaffold06999	7409
3411	CaLG5	H2L102	52.62	-	-
3412	CaLG5	NCPGR5	52.91	-	-
3413	CaLG5	NCPGR210	52.94	scaffold00890	114165
3414	CaLG5	CEST95	53.97	-	-
3415	CaLG5	CaGMS16	54.78	-	-
3416	CaLG5	CaSNP3946	54.9	scaffold01232	80047
3417	CaLG5	CaSNP3942	55.22	scaffold02123	62695

3418	CaLG5	CaTSNP7801	55.3	scaffold01362	76560
3419	CaLG5	CaTSNP8676	55.3	-	-
3420	CaLG5	CaTSNP7477	55.32	scaffold00564	131496
3421	CaLG5	CaTSNP7199	55.33	scaffold00664	127060
3422	CaLG5	CaSNP3299	55.35	scaffold01332	72946
3423	CaLG5	CaSNP2118	55.37	scaffold00279	212657
3424	CaLG5	CaSNP4565	55.38	-	-
3425	CaLG5	CaSNP4071	55.41	scaffold02292	43499
3426	CaLG5	CaSNP2640	55.42	-	-
3427	CaLG5	CaSNP3088	55.43	scaffold02650	34170
3428	CaLG5	CaSNP3245	55.43	scaffold00881	117405
3429	CaLG5	CaSNP4978	55.43	-	-
3430	CaLG5	CaSNP5069	55.43	scaffold01704	71142
3431	CaLG5	CaSNP2316	55.45	scaffold02596	41685
3432	CaLG5	CaSNP2723	55.47	-	-
3433	CaLG5	CaSNP4630	55.48	scaffold03292	25891
3434	CaLG5	CaSNP3954	55.48	scaffold07622	6544
3435	CaLG5	CaSNP3765	55.48	scaffold02008	52365
3436	CaLG5	CaSNP2091	55.48	scaffold01213	87123
3437	CaLG5	CaSNP3547	55.48	scaffold02150	43831
3438	CaLG5	NCPGR217	55.48	-	-
3439	CaLG5	CaSNP4544	55.49	scaffold00652	128990
3440	CaLG5	CaTSNP8753	55.49	scaffold01852	63686
3441	CaLG5	CaSNP3624	55.5	scaffold02270	44363
3442	CaLG5	CaTSNP7132	55.5	-	-
3443	CaLG5	CaSNP2481	55.5	scaffold01024	94833
3444	CaLG5	CaTSNP7368	55.51	9109392	20356
3445	CaLG5	CaTSNP8395	55.52	-	-
3446	CaLG5	CaTSNP8709	55.52	9201121	40449

3447	CaLG5	CaSNP4841	55.52	scaffold00607	137883
3448	CaLG5	CaTSNP6773	55.52	-	-
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3450	CaLG5	CaTSNP6057	55.53	scaffold00317	201238
3451	CaLG5	CaSNP1985	55.53	scaffold00437	164627
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3454	CaLG5	CaSNP2379	55.54	9207652	27057
3455	CaLG5	CaSNP4773	55.55	-	-
3456	CaLG5	CaSNP2272	55.55	scaffold00359	195152
3457	CaLG5	CaSNP2209	55.55	scaffold00643	129241
3458	CaLG5	CaSNP3534	55.56	-	-
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3460	CaLG5	CaTSNP6389	55.57	9211460	14145
3461	CaLG5	CaSNP2946	55.57	scaffold01234	95945
3462	CaLG5	CaSNP5030	55.57	-	-
3463	CaLG5	CaSNP2375	55.57	9210526	2788
3464	CaLG5	CaTSNP6508	55.57	-	-
3465	CaLG5	CaTSNP6660	55.57	-	-
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3468	CaLG5	CaTSNP9083	55.57	-	-
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3470	CaLG5	CaTSNP8374	55.58	-	-
3471	CaLG5	CaSNP2466	55.59	-	-
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3475	CaLG5	CaTSNP7792	55.59	-	-

3476	CaLG5	CaTSNP7471	55.59	-	-
3477	CaLG5	CaTSNP7541	55.59	scaffold01566	89714
3478	CaLG5	CaTSNP7776	55.59	-	-
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3481	CaLG5	CaTSNP8624	55.61	scaffold01705	84868
3482	CaLG5	CaSNP2371	55.61	-	-
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3489	CaLG5	CaSNP2356	55.71	scaffold01329	80420
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3509	CaLG5	CaSNP3718	55.92	scaffold00726	137134
3510	CaLG5	CaSNP3536	55.92	scaffold00674	153405
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3529	CaLG5	CaTSNP6960	55.98	-	-
3530	CaLG5	CaTSNP7239	55.98	-	-
3531	CaLG5	CaTSNP8699	55.98	scaffold02133	71635
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3533	CaLG5	CaTSNP7225	55.99	scaffold01703	57781

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3536	CaLG5	CaTSNP8847	56	scaffold00994	130394
3537	CaLG5	CaSNP3597	56	scaffold01859	52757
3538	CaLG5	CaSNP3759	56	scaffold02173	52477
3539	CaLG5	CaSNP2953	56.02	scaffold00846	132350
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3546	CaLG5	CaSNP4331	56.04	scaffold02374	40791
3547	CaLG5	CaSNP4408	56.05	9213555	10722
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3549	CaLG5	CaSNP2990	56.06	scaffold02726	35324
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3554	CaLG5	CaSNP3356	56.07	scaffold01490	72093
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3556	CaLG5	CaSNP3811	56.09	scaffold02684	33931
3557	CaLG5	CaSNP4210	56.11	scaffold02781	36297
3558	CaLG5	CaSNP4662	56.11	scaffold02415	45099
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3560	CaLG5	CaSNP4194	56.12	scaffold02861	34145
3561	CaLG5	CaSNP4871	56.12	scaffold14115	2619
3562	CaLG5	CaSNP4901	56.13	scaffold01773	59736

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3569	CaLG5	CaSNP3581	56.14	scaffold00796	129315
3570	CaLG5	CaSNP3806	56.14	scaffold01643	62918
3571	CaLG5	CaSNP3902	56.14	scaffold00709	124756
3572	CaLG5	CaSNP4730	56.14	scaffold02198	43094
3573	CaLG5	CaSNP4757	56.14	scaffold00496	179197
3574	CaLG5	CaSNP4907	56.14	scaffold03266	27358
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3576	CaLG5	CaSNP3948	56.15	scaffold02530	36421
3577	CaLG5	CaSNP3342	56.17	scaffold02254	45432
3578	CaLG5	CaSNP3459	56.19	scaffold00734	128030
3579	CaLG5	CaSNP4315	56.21	scaffold03739	21678
3580	CaLG5	CaSNP3331	56.22	scaffold01017	114281
3581	CaLG5	CaSNP4648	56.22	scaffold02686	34706
3582	CaLG5	CaSNP3264	56.23	scaffold01349	95243
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3597	CaLG5	CaSNP4134	56.24	scaffold01461	90079
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3625	CaLG5	CaSNP4511	56.26	scaffold02714	42163
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3627	CaLG5	CaSNP2030	56.26	scaffold02720	33951
3628	CaLG5	CaTSNP7237	56.26	-	-
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3632	CaLG5	CaSNP4886	56.28	-	-
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3636	CaLG5	CaTSNP8876	56.29	-	-
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3638	CaLG5	CaSNP3224	56.29	scaffold02416	49201
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3644	CaLG5	CaSNP3190	56.3	-	-
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3646	CaLG5	CaSNP2732	56.31	scaffold01640	65740
3647	CaLG5	CaSNP3755	56.31	scaffold02986	41601
3648	CaLG5	CaSNP2410	56.31	scaffold00615	129503
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3653	CaLG5	CaSNP4065	56.33	scaffold01160	104605
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3655	CaLG5	CaSNP2508	56.34	scaffold00276	210138
3656	CaLG5	CaSNP2674	56.34	scaffold01535	72354
3657	CaLG5	CaSNP3265	56.34	scaffold04474	25958
3658	CaLG5	CaSNP3803	56.34	scaffold01668	77830
3659	CaLG5	CaSNP3991	56.34	scaffold01597	69188
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3661	CaLG5	CaSNP4795	56.34	contig59815	1239
3662	CaLG5	CaSNP3119	56.36	scaffold01107	119161
3663	CaLG5	CaSNP4462	56.36	scaffold02395	53038
3664	CaLG5	CaSNP4338	56.38	scaffold03898	26362
3665	CaLG5	CaSNP2692	56.4	scaffold01861	75880
3666	CaLG5	CaSNP4476	56.4	9208013	24369
3667	CaLG5	CaTSNP7680	56.41	scaffold01884	50209
3668	CaLG5	CaSNP4671	56.57	scaffold02385	53516
3669	CaLG5	CaGMS1137	56.89	9102319	14129
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3673	CaLG5	CaSNP5087	57.39	-	-
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3685	CaLG5	CaSNP4637	57.98	-	-
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3687	CaLG5	CaSNP2298	58.09	scaffold00671	127052
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3697	CaLG5	CaSNP3939	58.17	scaffold01601	67741
3698	CaLG5	CaSNP2860	58.17	scaffold02699	51909
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3702	CaLG5	CaSNP727	58.19	-	-
3703	CaLG5	CaSNP4322	58.19	scaffold02789	32472
3704	CaLG5	CaSNP3075	58.2	scaffold06609	8329
3705	CaLG5	CaSNP3517	58.21	scaffold00903	110559
3706	CaLG5	CaSNP506	58.21	scaffold00834	109949
3707	CaLG5	CaSNP2870	58.21	9207042	31400

3708	CaLG5	CaSNP2261	58.23	9208920	49593
3709	CaLG5	CaSNP913	58.23	9200975	31713
3710	CaLG5	CaSNP2252	58.24	scaffold00542	161261
3711	CaLG5	CaTSNP8758	58.25	9215521	12876
3712	CaLG5	CaSNP4029	58.25	scaffold01014	122073
3713	CaLG5	CaSNP4453	58.25	9207303	15899
3714	CaLG5	CaTSNP7642	58.26	scaffold01104	84396
3715	CaLG5	CaTSNP7318	58.27	scaffold01398	75778
3716	CaLG5	CaTSNP6595	58.28	scaffold01675	69009
3717	CaLG5	CaTSNP7177	58.29	-	-
3718	CaLG5	CaTSNP6531	58.29	scaffold01153	94236
3719	CaLG5	CaTSNP7087	58.29	scaffold01108	99643
3720	CaLG5	CaTSNP7241	58.29	-	-
3721	CaLG5	CaTSNP8618	58.31	scaffold02336	39532
3722	CaLG5	CaSNP2274	58.36	scaffold01336	93355
3723	CaLG5	CaSNP4112	58.36	9207508	14960
3724	CaLG5	CaTSNP6090	58.67	-	-
3725	CaLG5	CaSNP2074	58.89	scaffold00198	250757
3726	CaLG5	CaSNP2793	58.89	-	-
3727	CaLG5	CaSNP2877	58.9	-	-
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3729	CaLG5	CaSNP4988	58.9	scaffold01837	52355
3730	CaLG5	CaSNP4100	58.91	scaffold00746	108567
3731	CaLG5	CaSNP551	58.97	scaffold00171	292705
3732	CaLG5	CaTSNP8893	59	scaffold00909	103845
3733	CaLG5	CaSNP2837	59.05	-	-
3734	CaLG5	CaSNP292	59.15	-	-
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3743	CaLG5	CaTSNP6081	59.39	-	-
3744	CaLG5	CaTSNP6077	59.4	-	-
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3753	CaLG5	CaTSNP8613	59.87	scaffold01707	58041
3754	CaLG5	CaTSNP6331	59.92	-	-
3755	CaLG5	CaTSNP6755	59.92	-	-
3756	CaLG5	CaTSNP7036	59.92	-	-
3757	CaLG5	CaTMS1055	59.95	-	-
3758	CaLG5	CaSNP5090	59.97	638600	19503
3759	CaLG5	CaSNP2965	60.09	scaffold01449	88200
3760	CaLG5	CaSNP5097	60.09	scaffold06950	7491
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3762	CaLG5	CaSNP2855	60.11	-	-
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3765	CaLG5	CaSNP2951	60.2	scaffold01359	85178

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3769	CaLG5	CaSNP3372	60.25	-	-
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3772	CaLG5	CaSNP2435	60.42	-	-
3773	CaLG5	CaTSNP7583	60.43	-	-
3774	CaLG5	CaTSNP9114	60.47	scaffold01385	78023
3775	CaLG5	CaSNP3879	60.49	9207548	1939
3776	CaLG5	CaTSNP6873	60.52	scaffold01912	50813
3777	CaLG5	CaSNP2824	60.55	-	-
3778	CaLG5	CaSNP2840	60.64	scaffold01235	80622
3779	CaLG5	CaSNP3167	60.68	-	-
3780	CaLG5	CaTSNP8905	60.77	-	-
3781	CaLG5	CaTSNP6923	60.99	-	-
3782	CaLG5	CaSNP2028	61.02	-	-
3783	CaLG5	CaSNP2461	61.04	-	-
3784	CaLG5	CaSNP847	61.05	-	-
3785	CaLG5	CaTSNP6903	61.08	-	-
3786	CaLG5	CaTSNP7564	61.13	-	-
3787	CaLG5	CaSNP3815	61.65	scaffold02468	40823
3788	CaLG5	CaSNP4064	61.65	-	-
3789	CaLG5	CaTSNP7379	61.78	-	-
3790	CaLG5	CaSNP2041	62.03	9204474	20528
3791	CaLG5	CaSNP2783	62.03	scaffold00364	190544
3792	CaLG5	CaSNP2542	62.05	scaffold00231	245059
3793	CaLG5	CaTSNP6698	62.22	-	-
3794	CaLG5	CaTMS1056	62.28	-	-

3795	CaLG5	CaSNP1927	62.33	scaffold00635	138134
3796	CaLG5	CaTSNP7606	62.6	-	-
3797	CaLG5	CaSNP2110	62.68	scaffold00582	132297
3798	CaLG5	CaSNP2071	62.72	scaffold00449	164014
3799	CaLG5	CaTSNP8397	62.82	-	-
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3801	CaLG5	CaTSNP8204	62.86	-	-
3802	CaLG5	CaTSNP8194	62.88	-	-
3803	CaLG5	CaSNP397	62.92	scaffold00469	170371
3804	CaLG5	CaSNP786	62.93	scaffold01494	68419
3805	CaLG5	CaSNP191	62.94	-	-
3806	CaLG5	CaSNP172	63.07	9200217	34100
3807	CaLG5	CaSNP441	63.09	-	-
3808	CaLG5	CaTSNP8810	63.12	-	-
3809	CaLG5	CaTSNP6693	63.24	-	-
3810	CaLG5	CaTSNP8834	63.45	9210321	17779
3811	CaLG5	CaTSNP9089	63.45	scaffold00157	273650
3812	CaLG5	CaTSNP9017	64.18	9204832	42951
3813	CaLG5	CaTSNP8674	65.21	-	-
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3815	CaLG5	CaTSNP7892	65.38	scaffold02112	60554
3816	CaLG5	CaSNP2727	65.48	scaffold00321	189029
3817	CaLG5	CaTSNP7666	65.5	-	-
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3819	CaLG5	CaSNP4430	65.7	-	-
3820	CaLG5	CaSNP3863	66.13	-	-
3821	CaLG5	CaTSNP8532	66.33	-	-
3822	CaLG5	CaSNP3989	66.39	-	-
3823	CaLG5	CaSNP2549	66.41	scaffold00533	157056

3824	CaLG5	CaTSNP6197	66.5	scaffold03660	21379
3825	CaLG5	CaTSNP6825	66.5	-	-
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3827	CaLG5	CaTSNP6524	66.61	scaffold00486	171337
3828	CaLG5	CaTSNP6823	66.61	-	-
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3836	CaLG5	CaTSNP6432	66.77	-	-
3837	CaLG5	CaTSNP7710	66.8	-	-
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3840	CaLG5	CaTSNP6509	67.07	scaffold00339	187741
3841	CaLG5	CaTSNP7405	67.27	-	-
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3843	CaLG5	CaTSNP7985	67.48	-	-
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3850	CaLG5	CaSNP305	67.74	scaffold01022	86271
3851	CaLG5	CaTSNP8680	67.74	-	-
3852	CaLG5	CaSNP2529	67.79	-	-

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3857	CaLG5	CaTSNP6233	68	scaffold03414	24418
3858	CaLG5	CaSNP258	68.08	-	-
3859	CaLG5	ESNP16	68.41	-	-
3860	CaLG5	ESNP22	68.42	-	-
3861	CaLG5	ESNP41	68.42	-	-
3862	CaLG5	CaTSNP9088	68.49	-	-
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3864	CaLG5	CaSNP256	68.71	9197401	39036
3865	CaLG5	CaSNP293	68.77	-	-
3866	CaLG5	CaSNP773	68.77	-	-
3867	CaLG5	CaSNP501	68.78	-	-
3868	CaLG5	ESNP86	68.89	-	-
3869	CaLG5	CaSNP59	68.96	-	-
3870	CaLG5	CaSNP608	68.98	-	-
3871	CaLG5	CaSNP599	69.03	-	-
3872	CaLG5	CaSNP481	69.04	-	-
3873	CaLG5	CaTSNP7277	69.37	scaffold00086	355838
3874	CaLG5	CaSNP4	69.42	scaffold01458	64874
3875	CaLG5	CaTMS766	69.43	-	-
3876	CaLG5	CaSNP2092	69.45	-	-
3877	CaLG5	CaSNP2144	69.45	-	-
3878	CaLG5	CaSNP3424	69.47	-	-
3879	CaLG5	CaSNP4091	69.47	-	-
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3881	CaLG5	CaSNP2928	69.5	scaffold01792	63130

3882	CaLG5	CaSNP4024	69.5	-	-
3883	CaLG5	CaTSNP8715	69.5	scaffold00422	175317
3884	CaLG5	CaTSNP8848	69.52	scaffold01112	81608
3885	CaLG5	CaSNP15	69.54	-	-
3886	CaLG5	CaTSNP6192	69.55	-	-
3887	CaLG5	CaTSNP6278	69.55	scaffold02708	33509
3888	CaLG5	CaTSNP6628	69.55	9154689	50421
3889	CaLG5	CaTSNP6666	69.55	9159073	53240
3890	CaLG5	CaTSNP7080	69.55	scaffold01157	78936
3891	CaLG5	CaTSNP8805	69.55	-	-
3892	CaLG5	CaTSNP6150	69.55	scaffold02564	45621
3893	CaLG5	CaTSNP6464	69.61	scaffold00219	254144
3894	CaLG5	CaTSNP7020	69.61	-	-
3895	CaLG5	CaTSNP7305	69.61	-	-
3896	CaLG5	CaTSNP8144	69.61	-	-
3897	CaLG5	CaTSNP8256	69.61	-	-
3898	CaLG5	CaTSNP8716	69.61	scaffold00612	131184
3899	CaLG5	CaTSNP8148	69.63	-	-
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3903	CaLG5	CaSNP4026	69.84	scaffold04372	28867
3904	CaLG5	CaSNP3252	69.9	-	-
3905	CaLG5	CaTSNP8765	69.91	-	-
3906	CaLG5	CaTSNP9065	69.91	-	-
3907	CaLG5	CaTSNP6239	69.91	-	-
3908	CaLG5	CaSNP5029	69.93	scaffold05524	10827
3909	CaLG5	CaTSNP6293	69.97	-	-
3910	CaLG5	CaTSNP6346	69.97	-	-

3911	CaLG5	CaTSNP6993	69.97	scaffold00153	284571
3912	CaLG5	CaTSNP7616	69.99	-	-
3913	CaLG5	CaTSNP8772	70.02	-	-
3914	CaLG5	CaTSNP8830	70.06	-	-
3915	CaLG5	CaTSNP8014	70.08	-	-
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3918	CaLG5	CaSNP3761	70.38	-	-
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3922	CaLG5	CaTSNP8040	70.54	9210471	49637
3923	CaLG5	CaTSNP8346	70.54	-	-
3924	CaLG5	CaTSNP8412	70.54	scaffold00047	476299
3925	CaLG5	CaTSNP6510	70.54	scaffold00064	429138
3926	CaLG5	CaTSNP8668	70.54	-	-
3927	CaLG5	CaTSNP7553	70.59	-	-
3928	CaLG5	CaTSNP6287	70.59	-	-
3929	CaLG5	CaTSNP6556	70.59	-	-
3930	CaLG5	CaTSNP6741	70.59	-	-
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3932	CaLG5	CaTSNP7539	70.63	-	-
3933	CaLG5	CaTSNP8623	70.63	-	-
3934	CaLG5	CaTSNP7398	70.69	-	-
3935	CaLG5	CaTSNP7980	70.77	-	-
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3937	CaLG5	CaTSNP6937	71.05	-	-
3938	CaLG5	CaTSNP7772	71.05	-	-
3939	CaLG5	CaTSNP6281	71.1	scaffold00200	261065

3940	CaLG5	CaTSNP6319	71.1	-	-
3941	CaLG5	CaTSNP7280	71.12	-	-
3942	CaLG5	CaTSNP8011	71.12	-	-
3943	CaLG5	CaTSNP8754	71.12	scaffold00430	166099
3944	CaLG5	CaTSNP6314	71.13	-	-
3945	CaLG5	CaTSNP6581	71.48	scaffold10227	4241
3946	CaLG5	CaTSNP7374	71.5	-	-
3947	CaLG5	CaTSNP8667	71.67	scaffold00426	199188
3948	CaLG5	CaTSNP7994	71.7	scaffold00474	149864
3949	CaLG5	CaTSNP7159	71.75	-	-
3950	CaLG5	CaTSNP8139	71.75	-	-
3951	CaLG5	CaTSNP8450	71.77	-	-
3952	CaLG5	CaTSNP7709	71.79	-	-
3953	CaLG5	CaTSNP8008	71.8	scaffold00331	215396
3954	CaLG5	CaTSNP9040	71.81	-	-
3955	CaLG5	CaTSNP7628	71.88	-	-
3956	CaLG5	CaTSNP7700	71.88	-	-
3957	CaLG5	CaTSNP7308	71.88	-	-
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3959	CaLG5	CaSNP1987	72.67	-	-
3960	CaLG5	CaSNP3321	72.76	-	-
3961	CaLG5	CaSNP2174	72.85	-	-
3962	CaLG5	CaSNP2023	72.89	-	-
3963	CaLG5	CaTSNP6068	72.97	scaffold00112	333150
3964	CaLG5	CaTSNP8661	73.07	-	-
3965	CaLG5	CaTSNP8871	73.15	-	-
3966	CaLG5	CaTSNP6934	73.17	-	-
3967	CaLG5	CaSNP3621	73.2	-	-
3968	CaLG5	CaSNP2554	74.45	scaffold01256	83486

3969	CaLG5	CaSNP2825	74.59	-	-
3970	CaLG5	CaTSNP6554	74.74	-	-
3971	CaLG5	CaTMS668	75.44	-	-
3972	CaLG5	CaTSNP7633	76.38	-	-
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3974	CaLG5	CaTSNP7966	76.41	scaffold00059	415906
3975	CaLG5	CaTSNP8168	76.41	-	-
3976	CaLG5	CaTSNP8212	76.41	-	-
3977	CaLG5	CaTSNP8595	76.41	-	-
3978	CaLG5	CaTSNP8252	76.41	-	-
3979	CaLG5	CaTSNP6803	76.5	-	-
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3981	CaLG5	CaTSNP8382	76.7	scaffold00492	145987
3982	CaLG5	CaTSNP7853	77.29	-	-
3983	CaLG5	CaTSNP7072	77.7	-	-
3984	CaLG5	CaTSNP8785	77.7	-	-
3985	CaLG5	CaTSNP6175	77.79	-	-
3986	CaLG5	CaTSNP6290	77.79	-	-
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3988	CaLG5	CaTSNP6661	77.79	scaffold00367	187994
3989	CaLG5	CaTSNP7172	77.79	scaffold13764	2710
3990	CaLG5	CaTSNP7349	77.79	scaffold08538	5560
3991	CaLG5	CaTSNP7973	77.79	9204158	73634
3992	CaLG5	CaTSNP8530	77.79	-	-
3993	CaLG5	CaTSNP9014	77.79	-	-
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3995	CaLG5	CaTSNP8823	77.81	-	-
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3997	CaLG5	CaTSNP6712	77.85	-	-

3998	CaLG5	CaTSNP8846	77.85	-	-
3999	CaLG5	CaTSNP6409	77.88	-	-
4000	CaLG5	CaTSNP8117	77.89	9081662	80447
4001	CaLG5	CaTSNP8396	78.11	scaffold00008	868686
4002	CaLG5	CaTSNP7852	78.32	-	-
4003	CaLG5	CaTSNP8867	78.32	-	-
4004	CaLG5	CaTSNP8523	78.39	-	-
4005	CaLG5	CaTSNP6490	78.78	-	-
4006	CaLG5	CaTSNP6864	78.78	-	-
4007	CaLG5	CaTSNP8283	78.78	-	-
4008	CaLG5	CaTSNP9157	78.78	-	-
4009	CaLG5	CaTSNP9050	78.84	-	-
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4011	CaLG5	CaTSNP7396	79.6	scaffold00140	276053
4012	CaLG5	CaSNP2492	79.66	-	-
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4014	CaLG5	CaSNP897	79.86	-	-
4015	CaLG5	CaSNP2571	79.89	-	-
4016	CaLG5	CaSNP4600	79.94	-	-
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4018	CaLG5	CaSNP179	80.94	-	-
4019	CaLG5	CaTSNP6483	80.94	9191285	88622
4020	CaLG5	CaTSNP8363	80.94	-	-
4021	CaLG5	CaSNP553	80.98	-	-
4022	CaLG5	CaTSNP9012	80.99	-	-
4023	CaLG5	CaSNP349	81.07	-	-
4024	CaLG5	CaSNP77	81.11	-	-
4025	CaLG5	CaSNP881	81.17	-	-
4026	CaLG5	CaTSNP6536	81.2	-	-

4027	CaLG5	CaTSNP8637	81.31	-	-
4028	CaLG5	CaTSNP6905	81.77	-	-
4029	CaLG5	CaTSNP8889	81.83	-	-
4030	CaLG5	CaTSNP8923	81.86	-	-
4031	CaLG5	CaTSNP6215	81.9	scaffold00055	452676
4032	CaLG5	CaSNP3432	82.2	-	-
4033	CaLG5	CaTSNP7695	82.35	-	-
4034	CaLG5	CaTSNP8409	82.46	9204082	82020
4035	CaLG5	CaSNP2317	82.62	-	-
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4037	CaLG5	CaTSNP8843	83.42	9133966	33628
4038	CaLG5	CaTSNP8207	84.45	-	-
4039	CaLG5	CaSNP373	84.59	-	-
4040	CaLG5	CaSNP680	84.59	-	-
4041	CaLG5	CaTSNP7420	84.73	-	-
4042	CaLG5	CaSNP534	84.85	-	-
4043	CaLG5	NCPGR196	85.09	-	-
4044	CaLG5	CaTSNP8017	85.21	-	-
4045	CaLG5	CaSNP826	85.42	-	-
4046	CaLG5	PIP143	85.85	-	-
4047	CaLG5	CaSNP2357	85.92	-	-
4048	CaLG5	CaTSNP7712	86.53	-	-
4049	CaLG5	NCPGR232	86.61	scaffold00631	136946
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4051	CaLG5	CaSNP4732	88.12	-	-
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4055	CaLG5	CaTSNP6584	89.06	-	-

4056	CaLG5	CaTSNP6907	89.06	-	-
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4059	CaLG5	CESSR23	91.13	-	-
4060	CaLG5	CaTSNP8768	91.21	-	-
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4062	CaLG5	CaTSNP8003	91.24	-	-
4063	CaLG5	CaTSNP7967	91.44	scaffold00412	164427
4064	CaLG5	CaTSNP8315	91.44	-	-
4065	CaLG5	CaTSNP7603	91.52	-	-
4066	CaLG5	CaTSNP6326	91.54	-	-
4067	CaLG5	CaTSNP6705	91.56	scaffold02482	51287
4068	CaLG5	CaTMS787	91.56	-	-
4069	CaLG5	CaTSNP7723	91.59	9206340	12532
4070	CaLG5	CaTSNP8277	91.68	scaffold00862	104688
4071	CaLG5	CaTSNP6279	91.92	-	-
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4076	CaLG5	CaSNP2926	92.18	-	-
4077	CaLG5	CaTSNP9085	92.19	-	-
4078	CaLG5	CaTSNP8748	92.19	-	-
4079	CaLG5	CaTSNP8944	92.19	-	-
4080	CaLG5	TS35	92.26	-	-
4081	CaLG5	CaSNP2056	92.28	9091287	17901
4082	CaLG5	CaTSNP7674	92.38	-	-
4083	CaLG5	CaSNP2013	92.42	scaffold00545	144639
4084	CaLG5	CaTSNP6542	92.5	-	-

4085	CaLG5	CaTSNP6323	92.63	-	-
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4087	CaLG5	CaTSNP7676	95.3	-	-
4088	CaLG5	CaTSNP8298	95.35	-	-
4089	CaLG5	CaTSNP8439	95.4	-	-
4090	CaLG5	CaTSNP7887	95.41	scaffold00075	404207
4091	CaLG5	CaTSNP7992	95.43	-	-
4092	CaLG5	CaSNP2212	95.96	-	-
4093	CaLG5	CaSNP2541	95.96	-	-
4094	CaLG5	CaTSNP9090	96	-	-
4095	CaLG5	CaTSNP7475	96.12	-	-
4096	CaLG5	CaTSNP7769	96.12	-	-
4097	CaLG5	CaTSNP6071	96.17	-	-
4098	CaLG5	CaGMS23	96.32	-	-
4099	CaLG5	CESSR165	96.85	-	-
4100	CaLG5	CaTSNP9153	97.07	-	-
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4103	CaLG5	CaTSNP8647	97.07	-	-
4104	CaLG5	CaTSNP7394	97.07	-	-
4105	CaLG5	CaTSNP6341	97.09	-	-
4106	CaLG5	CaTSNP6534	97.1	-	-
4107	CaLG5	CaTSNP6637	97.1	-	-
4108	CaLG5	CaTSNP7097	97.1	-	-
4109	CaLG5	CaTSNP9125	97.1	-	-
4110	CaLG5	CaTSNP7982	97.11	-	-
4111	CaLG5	CaTSNP6950	97.19	-	-
4112	CaLG5	CaTSNP6241	97.19	9207601	22382
4113	CaLG5	CaTSNP6816	97.19	-	-

4114	CaLG5	CaTSNP6936	97.19	-	-
4115	CaLG5	CaTSNP7401	97.19	-	-
4116	CaLG5	CaTSNP8446	97.19	-	-
4117	CaLG5	CaTSNP8540	97.19	-	-
4118	CaLG5	CaSNP2155	97.19	-	-
4119	CaLG5	CaTSNP8401	97.21	-	-
4120	CaLG5	CaSNP2020	97.27	-	-
4121	CaLG5	CaSNP5033	97.36	-	-
4122	CaLG5	CaSNP2898	97.36	9191643	56242
4123	CaLG5	CaTSNP7884	97.5	-	-
4124	CaLG5	CaSNP2346	97.52	scaffold00527	142243
4125	CaLG5	CaSNP581	97.52	scaffold00795	110840
4126	CaLG5	CaTSNP8281	97.54	-	-
4127	CaLG5	CaSNP391	97.56	scaffold00092	345607
4128	CaLG5	CaSNP532	97.59	scaffold00387	197952
4129	CaLG5	CaSNP739	97.59	-	-
4130	CaLG5	CaTSNP6145	97.63	-	-
4131	CaLG5	CaTSNP7668	97.63	-	-
4132	CaLG5	CaTSNP8704	97.63	-	-
4133	CaLG5	CaTSNP7558	97.64	-	-
4134	CaLG5	CaTSNP6489	97.67	-	-
4135	CaLG5	CaTSNP8767	97.7	-	-
4136	CaLG5	CaTSNP8970	97.75	-	-
4137	CaLG5	ESNP102	97.75	scaffold00539	157474
4138	CaLG5	CaTSNP7734	97.79	-	-
4139	CaLG5	CaTSNP8472	97.79	-	-
4140	CaLG5	CaTSNP7053	97.81	-	-
4141	CaLG5	CaTSNP7910	97.81	9143161	18632
4142	CaLG5	CaTSNP6262	97.83	scaffold00656	135970

4143	CaLG5	CaTSNP7313	97.83	-	-
4144	CaLG5	CaTSNP8181	97.83	-	-
4145	CaLG5	CaTSNP7686	97.84	-	-
4146	CaLG5	CaTSNP6349	97.85	-	-
4147	CaLG5	CaTSNP8601	97.85	-	-
4148	CaLG5	CaSNP140	97.85	-	-
4149	CaLG5	CaTSNP6425	97.88	-	-
4150	CaLG5	CaTSNP7093	97.88	-	-
4151	CaLG5	CaTSNP8504	97.89	-	-
4152	CaLG5	CaTSNP6812	97.95	-	-
4153	CaLG5	CaTSNP7664	97.95	-	-
4154	CaLG5	CaTSNP8185	97.95	-	-
4155	CaLG5	CaSNP1951	98.02	scaffold00372	184656
4156	CaLG5	CaSNP544	98.08	scaffold00005	930854
4157	CaLG5	CaTSNP7382	98.37	-	-
4158	CaLG5	CESSR111	98.39	-	-
4159	CaLG5	CaTSNP9067	98.44	-	-
4160	CaLG5	CaSNP708	98.76	9180663	99948
4161	CaLG5	CaSNP85	99.47	-	-
4162	CaLG5	CaSNP797	99.5	-	-
4163	CaLG5	CaSNP277	99.54	-	-
4164	CaLG5	CaSNP342	99.91	-	-
4165	CaLG5	CaSNP310	100	scaffold00193	231428
4166	CaLG5	CaSNP21	100.2	scaffold00479	170853
4167	CaLG5	CaSNP598	100.2	scaffold00949	111634
4168	CaLG5	CaSNP435	100.2	scaffold00240	222072
4169	CaLG5	CaSNP896	100.6	-	-
4170	CaLG5	CEST160	100.9	-	-
4171	CaLG5	NCPGR86	101	-	-

4172	CaLG5	NCPGR201	101.1	-	-
4173	CaLG5	CaSNP270	101.4	-	-
4174	CaLG5	PIP176	101.5	-	-
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4176	CaLG5	PIP209	101.6	-	-
4177	CaLG5	CaSNP2532	101.8	-	-
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4180	CaLG5	CaSNP3173	102	scaffold00514	155231
4181	CaLG5	CaTSNP6500	102	-	-
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4184	CaLG5	CaTMS706	102	-	-
4185	CaLG5	CaSNP3901	102.1	-	-
4186	CaLG5	CaTSNP7758	102.1	-	-
4187	CaLG5	CaTSNP8282	102.1	-	-
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4189	CaLG5	CaSNP679	102.1	scaffold00404	164189
4190	CaLG5	CaSNP543	102.1	-	-
4191	CaLG5	CaSNP486	102.2	scaffold02362	39533
4192	CaLG5	CaTSNP6868	102.2	-	-
4193	CaLG5	CaTSNP6053	102.3	-	-
4194	CaLG5	CaTSNP6767	102.3	-	-
4195	CaLG5	CaTSNP8038	102.4	-	-
4196	CaLG5	CaSNP808	102.4	scaffold00189	240464
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4199	CaLG5	CaSNP3897	102.6	-	-
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4203	CaLG5	CaSNP3957	103	scaffold02688	37747
4204	CaLG5	CaSNP377	103.1	scaffold00735	122780
4205	CaLG5	CaSNP255	103.1	scaffold00106	329997
4206	CaLG5	CaSNP4416	103.1	-	-
4207	CaLG5	CaSNP675	103.1	-	-
4208	CaLG5	CaSNP4830	103.2	-	-
4209	CaLG5	CaSSR4	103.4	-	-
4210	CaLG5	CaTSNP7213	103.4	scaffold00165	272492
4211	CaLG5	CaSNP2033	103.5	scaffold00293	194946
4212	CaLG5	CaTSNP7335	103.5	-	-
4213	CaLG5	CaTSNP6460	103.6	-	-
4214	CaLG5	CaTSNP7289	103.7	-	-
4215	CaLG5	CaTSNP8097	103.8	-	-
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4218	CaLG5	CaTSNP6735	104.1	-	-
4219	CaLG5	CaTSNP9048	104.1	-	-
4220	CaLG5	CaTSNP8549	104.1	-	-
4221	CaLG5	CaTSNP8608	104.2	scaffold06082	9893
4222	CaLG5	CaTSNP6006	104.2	-	-
4223	CaLG5	CaTSNP6549	104.5	-	-
4224	CaLG5	CaTSNP6142	104.5	-	-
4225	CaLG5	CaTSNP8425	104.5	9193831	54768
4226	CaLG5	CaTSNP7231	104.6	-	-
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4228	CaLG5	CaTSNP8127	105.2	-	-
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4230	CaLG5	CaTSNP8988	105.5	-	-
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4232	CaLG5	CaTSNP6632	105.6	-	-
4233	CaLG5	CaTSNP8740	105.6	-	-
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4235	CaLG5	PIP55	106.6	-	-
4236	CaLG5	CaSNP614	106.9	-	-
4237	CaLG5	TAA169a	107.2	-	-
4238	CaLG5	CaTSNP8269	107.7	-	-
4239	CaLG5	H4F07	107.9	-	-
4240	CaLG5	CaGMS1204	108.1	-	-
4241	CaLG5	CaSNP4701	108.2	scaffold03131	37199
4242	CaLG5	CaTSNP7806	108.8	scaffold16987	2023
4243	CaLG5	CaTSNP6762	109	-	-
4244	CaLG5	CaTSNP7803	109.1	-	-
4245	CaLG5	CaTSNP8722	109.1	-	-
4246	CaLG5	CEST179	109.1	-	-
4247	CaLG5	CaTSNP7322	109.1	9215941	58130
4248	CaLG5	CaTSNP7424	109.1	-	-
4249	CaLG5	CaTSNP8806	109.1	-	-
4250	CaLG5	CaTSNP9019	109.1	-	-
4251	CaLG5	CaTSNP8707	109.2	-	-
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4255	CaLG5	CaSNP456	109.3	9191570	60940
4256	CaLG5	CaSNP522	109.8	-	-
4257	CaLG5	CaSNP758	109.8	scaffold00104	322089
4258	CaLG5	CaSNP1929	110.4	-	-

4259	CaLG5	CaSNP4622	110.4	-	-
4260	CaLG5	CESSR432	110.5	-	-
4261	CaLG5	CaSNP127	110.6	-	-
4262	CaLG5	CaSNP52	110.6	-	-
4263	CaLG5	CaSNP92	110.6	-	-
4264	CaLG5	CaSNP636	110.7	9128049	44970
4265	CaLG5	STMS8	110.8	-	-
4266	CaLG5	CaSNP894	110.9	-	-
4267	CaLG5	CaSNP11	110.9	-	-
4268	CaLG5	CaSNP430	112.4	-	-
4269	CaLG5	CaSNP362	112.4	-	-
4270	CaLG5	CaSNP98	113.2	scaffold00002	1228777
4271	CaLG5	CESSR48	113.4	-	-
4272	CaLG5	CaGMS1170	113.7	-	-
4273	CaLG5	CaTMS637	113.7	-	-
4274	CaLG5	CaSNP2528	114.2	9203043	21958
4275	CaLG5	NCPGR56	118.4	scaffold01379	77046
4276	CaLG5	CEST112	124.6	-	-
4277	CaLG5	CEST181	126.8	-	-
4278	CaLG5	PIP218	135.7	-	-
4279	CaLG5	CESSR133	142.2	-	-
4280	CaLG5	PIP154	149.9	-	-
4281	CaLG5	CESSR142	158.8	-	-
4282	CaLG6	CESSR183	0	-	-
4283	CaLG6	CESSR160	3.921	scaffold07169	7161
4284	CaLG6	PIP147	4.433	-	-
4285	CaLG6	NCPGR238	5.745	scaffold00228	283173
4286	CaLG6	CaGMS2	13.92	scaffold01223	88698
4287	CaLG6	CESSR130	17.83	scaffold02069	58169

4288	CaLG6	CaGMS1210	19.13	scaffold01114	88777
4289	CaLG6	H4A07	20.11	-	-
4290	CaLG6	CaTMS599	26.16	-	-
4291	CaLG6	CaTMS667	27.34	-	-
4292	CaLG6	CaTMS635	27.61	-	-
4293	CaLG6	CESSR62	29.67	scaffold02942	39741
4294	CaLG6	CaGMS1241	30.01	-	-
4295	CaLG6	NCPGR46	32.22	-	-
4296	CaLG6	PIP196	35.42	-	-
4297	CaLG6	CaSNP5035	36.29	scaffold00174	268922
4298	CaLG6	CaTMS1118	36.41	-	-
4299	CaLG6	CaSSR2	38.45	-	-
4300	CaLG6	PIP142	39.52	-	-
4301	CaLG6	CaTSNP8503	42.59	-	-
4302	CaLG6	CaSNP235	43.42	scaffold00258	205335
4303	CaLG6	CaSNP734	43.42	9194250	64868
4304	CaLG6	CaGMS278	43.8	-	-
4305	CaLG6	CESSR88	44.7	-	-
4306	CaLG6	CaGMS1198	46	-	-
4307	CaLG6	CaSNP91	47.06	9187459	51767
4308	CaLG6	CaGMS332	47.32	-	-
4309	CaLG6	CaSNP5034	48.24	scaffold00221	220089
4310	CaLG6	CaTSNP9115	48.61	-	-
4311	CaLG6	CaTSNP9158	48.73	-	-
4312	CaLG6	CaTSNP7983	48.78	-	-
4313	CaLG6	CaTSNP7744	48.79	-	-
4314	CaLG6	CaTSNP6708	48.82	-	-
4315	CaLG6	CaTSNP6732	48.84	-	-
4316	CaLG6	CaTSNP7559	49.1	-	-

4317	CaLG6	CaTSNP6804	49.19	scaffold01277	78400
4318	CaLG6	CaTSNP8043	49.2	-	-
4319	CaLG6	CaTSNP7537	49.21	-	-
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4322	CaLG6	CaTSNP8092	49.49	9211044	43590
4323	CaLG6	CaTSNP8334	49.66	-	-
4324	CaLG6	CaTSNP6244	49.77	-	-
4325	CaLG6	CaGMS19	49.92	-	-
4326	CaLG6	CaTSNP7993	50.01	9155483	70406
4327	CaLG6	CaTSNP8784	50.01	-	-
4328	CaLG6	CaTSNP8154	50.01	-	-
4329	CaLG6	CaTSNP6861	50.11	-	-
4330	CaLG6	CaTSNP6401	50.16	-	-
4331	CaLG6	CaTSNP8297	50.19	-	-
4332	CaLG6	CaTSNP6398	50.2	-	-
4333	CaLG6	CaTSNP8933	50.24	-	-
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4337	CaLG6	CaSNP3808	50.44	scaffold00992	93267
4338	CaLG6	CaTSNP8776	50.48	-	-
4339	CaLG6	CaSNP5037	50.53	-	-
4340	CaLG6	CaTSNP6436	50.65	scaffold01413	89484
4341	CaLG6	CaTSNP9052	50.65	-	-
4342	CaLG6	CaTSNP8349	50.76	-	-
4343	CaLG6	CaTSNP6650	50.89	scaffold00714	119066
4344	CaLG6	CaTSNP7981	50.89	-	-
4345	CaLG6	CaTSNP6561	50.93	-	-

4346	CaLG6	CaSNP3064	50.99	-	-
4347	CaLG6	CaSNP3193	51.07	scaffold00073	403024
4348	CaLG6	CaSNP2604	51.13	-	-
4349	CaLG6	CaSNP2659	51.16	scaffold01635	58812
4350	CaLG6	CaSNP2251	51.22	scaffold01438	85466
4351	CaLG6	CaSNP3454	51.62	scaffold00077	407345
4352	CaLG6	CaSNP3911	51.62	scaffold00156	291381
4353	CaLG6	CaSNP901	51.65	scaffold00989	94598
4354	CaLG6	CaSNP4663	51.76	scaffold00121	299340
4355	CaLG6	CaSNP504	52.57	9205769	41800
4356	CaLG6	CaSNP442	52.64	9214716	60852
4357	CaLG6	CaSNP651	52.77	scaffold01412	67392
4358	CaLG6	CaSNP157	52.81	scaffold00169	249776
4359	CaLG6	CaSNP43	52.82	9080487	54963
4360	CaLG6	CaSNP1923	53.52	-	-
4361	CaLG6	CaSNP738	54.54	-	-
4362	CaLG6	CaSNP793	54.74	-	-
4363	CaLG6	CaSNP62	54.84	-	-
4364	CaLG6	CaSNP518	54.87	-	-
4365	CaLG6	CaTMS927	55.49	-	-
4366	CaLG6	CaSNP399	55.6	scaffold01001	91619
4367	CaLG6	CaSNP3654	56.08	scaffold02390	48449
4368	CaLG6	CaSNP5154	56.36	-	-
4369	CaLG6	CaSNP2842	56.58	-	-
4370	CaLG6	CaTSNP9025	56.65	scaffold07527	6661
4371	CaLG6	CaTSNP8023	56.82	-	-
4372	CaLG6	CaTSNP6050	56.85	-	-
4373	CaLG6	CaTSNP8953	56.85	-	-
4374	CaLG6	CaTSNP7359	56.95	-	-

4375	CaLG6	CaTSNP7858	56.96	9214764	27095
4376	CaLG6	CaTSNP6422	56.97	scaffold10981	3813
4377	CaLG6	CaTSNP6586	56.98	-	-
4378	CaLG6	CaTSNP7210	56.98	-	-
4379	CaLG6	CaTSNP7955	56.98	-	-
4380	CaLG6	CaTSNP8248	56.98	-	-
4381	CaLG6	CaTSNP8335	56.98	-	-
4382	CaLG6	CaTSNP6048	56.99	-	-
4383	CaLG6	CaTSNP6715	56.99	9212007	57233
4384	CaLG6	CaTSNP9006	56.99	-	-
4385	CaLG6	CaTSNP7384	57	scaffold00956	101430
4386	CaLG6	CaTSNP6606	57.05	scaffold00045	513320
4387	CaLG6	CaTSNP8320	57.05	-	-
4388	CaLG6	CaTSNP6604	57.52	-	-
4389	CaLG6	CaTSNP8897	57.53	-	-
4390	CaLG6	CaTSNP8180	57.54	-	-
4391	CaLG6	CaTSNP8134	57.56	-	-
4392	CaLG6	CaTSNP6302	57.61	9215048	27851
4393	CaLG6	CaTSNP6254	57.61	scaffold00014	722610
4394	CaLG6	CaTSNP7059	57.71	-	-
4395	CaLG6	CaSNP1936	58.52	scaffold00141	289402
4396	CaLG6	CaSNP4101	58.58	-	-
4397	CaLG6	GA26	60.89	-	-
4398	CaLG6	GA21	61.22	-	-
4399	CaLG6	GAA41	61.7	-	-
4400	CaLG6	GAA39	61.85	-	-
4401	CaLG6	CaTMS702	61.96	-	-
4402	CaLG6	TS83	62.55	-	-
4403	CaLG6	NCPGR251	64.12	-	-

4404	CaLG6	CaTMS878	65.15	-	-
4405	CaLG6	NCPGR256	65.51	scaffold00382	169962
4406	CaLG6	CaTMS538	65.52	-	-
4407	CaLG6	CaSNP206	65.7	scaffold00071	401710
4408	CaLG6	CaSNP90	65.7	-	-
4409	CaLG6	CaSNP719	65.73	-	-
4410	CaLG6	ESNP10	65.73	-	-
4411	CaLG6	CaSNP283	65.88	-	-
4412	CaLG6	ESNP85	65.89	scaffold00725	122787
4413	CaLG6	CaSNP2769	65.92	-	-
4414	CaLG6	CaSNP564	66.1	-	-
4415	CaLG6	CaSNP575	66.25	scaffold00114	298061
4416	CaLG6	CaTSNP7922	66.53	scaffold00089	407492
4417	CaLG6	CaTSNP7328	66.56	-	-
4418	CaLG6	CaSNP520	66.62	-	-
4419	CaLG6	CaTSNP6674	66.62	-	-
4420	CaLG6	CaSNP120	66.78	scaffold00460	153837
4421	CaLG6	CaSNP560	66.78	-	-
4422	CaLG6	CaSNP872	66.78	scaffold00727	118270
4423	CaLG6	CaGMS223	66.85	-	-
4424	CaLG6	CaSNP291	66.87	9123736	47483
4425	CaLG6	CaGMS478	67	-	-
4426	CaLG6	CaSNP655	67.01	scaffold00134	290746
4427	CaLG6	CaTSNP7353	67.06	-	-
4428	CaLG6	CaTSNP6296	67.06	-	-
4429	CaLG6	CaSNP2394	67.08	-	-
4430	CaLG6	CaTSNP6967	67.09	-	-
4431	CaLG6	CaTSNP8816	67.09	-	-
4432	CaLG6	CaSNP2060	67.15	-	-

4433	CaLG6	CaTSNP8275	67.16	-	-
4434	CaLG6	CaTSNP8485	67.16	-	-
4435	CaLG6	CaSNP631	67.19	-	-
4436	CaLG6	CaTSNP8829	67.25	-	-
4437	CaLG6	CaSNP4154	67.29	-	-
4438	CaLG6	CaTMS891	67.35	-	-
4439	CaLG6	CaTSNP9032	67.36	-	-
4440	CaLG6	CaTSNP8959	67.38	-	-
4441	CaLG6	CaTSNP8550	67.45	-	-
4442	CaLG6	CaTSNP7851	67.45	-	-
4443	CaLG6	CaTMS865	67.63	-	-
4444	CaLG6	CaSNP24	67.64	scaffold00163	285565
4445	CaLG6	CaSNP497	67.64	scaffold00149	266714
4446	CaLG6	CaSNP2017	67.66	-	-
4447	CaLG6	CaSNP2187	67.66	scaffold00181	252172
4448	CaLG6	CaSNP2899	67.66	-	-
4449	CaLG6	CaSNP715	67.81	-	-
4450	CaLG6	CaSNP633	68.21	scaffold00995	104121
4451	CaLG6	CESSR24	68.23	-	-
4452	CaLG6	CaSNP122	68.47	-	-
4453	CaLG6	CaSNP787	68.47	9167113	13039
4454	CaLG6	CaSNP678	68.7	-	-
4455	CaLG6	CaSNP731	68.7	-	-
4456	CaLG6	CaTSNP8487	68.86	scaffold00202	229632
4457	CaLG6	CaTSNP6344	68.89	-	-
4458	CaLG6	CaTSNP9010	68.89	-	-
4459	CaLG6	CaTSNP8241	68.91	-	-
4460	CaLG6	CaTSNP7006	68.93	-	-
4461	CaLG6	CaSNP186	69.07	-	-

4462	CaLG6	CaTSNP8379	69.22	-	-
4463	CaLG6	CaTSNP8653	69.33	scaffold00592	137372
4464	CaLG6	CaSNP2044	69.38	-	-
4465	CaLG6	CaTSNP8907	69.46	-	-
4466	CaLG6	CaTSNP8583	69.47	-	-
4467	CaLG6	CaSNP4898	69.5	-	-
4468	CaLG6	CaTSNP8979	69.55	-	-
4469	CaLG6	CaSNP4574	69.74	-	-
4470	CaLG6	CaGMS15	69.74	-	-
4471	CaLG6	CaSNP5065	69.83	-	-
4472	CaLG6	CaSNP617	70.12	scaffold00330	184665
4473	CaLG6	CaTMS727	70.25	-	-
4474	CaLG6	STMS2	70.29	-	-
4475	CaLG6	CaSNP4402	70.46	-	-
4476	CaLG6	CaSNP4880	70.69	scaffold03106	38023
4477	CaLG6	CaTSNP7768	70.69	-	-
4478	CaLG6	CaTSNP7825	70.72	-	-
4479	CaLG6	CaSNP635	70.72	scaffold00639	140266
4480	CaLG6	CaTSNP8424	70.75	scaffold03719	22252
4481	CaLG6	CaSNP123	70.79	scaffold00393	174682
4482	CaLG6	CaTSNP8407	70.8	-	-
4483	CaLG6	CaTSNP8937	70.84	-	-
4484	CaLG6	CaTSNP7263	70.92	-	-
4485	CaLG6	CaTSNP6889	71	-	-
4486	CaLG6	NCPGR123	71.07	scaffold00349	196416
4487	CaLG6	CaTSNP7274	71.19	-	-
4488	CaLG6	CaTSNP6027	71.3	-	-
4489	CaLG6	CaSNP4519	71.37	9089380	24113
4490	CaLG6	CaSNP1960	71.44	-	-

4491	CaLG6	CaSNP3515	71.44	scaffold01768	60848
4492	CaLG6	CaTSNP6028	71.44	-	-
4493	CaLG6	CaTMS536	71.48	-	-
4494	CaLG6	CaTSNP8090	71.51	scaffold00199	238000
4495	CaLG6	CaSNP2450	71.56	-	-
4496	CaLG6	CaSNP1963	71.56	-	-
4497	CaLG6	CaTSNP8569	71.68	-	-
4498	CaLG6	CaSNP3295	71.69	-	-
4499	CaLG6	CaTSNP7817	71.7	-	-
4500	CaLG6	CaSNP217	71.71	-	-
4501	CaLG6	CaSNP2924	72.06	-	-
4502	CaLG6	CaTSNP7939	72.27	scaffold07084	7293
4503	CaLG6	CaTSNP7503	72.38	-	-
4504	CaLG6	CaTSNP8927	72.44	-	-
4505	CaLG6	CaTSNP6320	72.47	-	-
4506	CaLG6	CaTSNP7472	72.49	9104880	31207
4507	CaLG6	CaTSNP6315	72.5	-	-
4508	CaLG6	CaTMS851	72.68	-	-
4509	CaLG6	CaSNP4488	72.73	-	-
4510	CaLG6	CaSNP2230	72.77	-	-
4511	CaLG6	CaSNP2133	72.87	-	-
4512	CaLG6	CaTSNP7122	72.88	scaffold01460	79813
4513	CaLG6	CaTSNP6756	72.94	scaffold01462	70417
4514	CaLG6	CaTSNP8494	72.97	-	-
4515	CaLG6	CaTSNP8769	72.97	-	-
4516	CaLG6	CaTMS844	72.98	-	-
4517	CaLG6	CaSNP2809	73	-	-
4518	CaLG6	CaSNP267	73.19	-	-
4519	CaLG6	CaGMS38	73.57	-	-

4520	CaLG6	CaTSNP7111	73.61	scaffold03353	24825
4521	CaLG6	CaSNP4615	73.82	scaffold08814	5299
4522	CaLG6	CaTSNP6186	73.99	-	-
4523	CaLG6	CaSNP2057	74.33	scaffold01099	86005
4524	CaLG6	CaSNP2437	74.33	scaffold00298	202886
4525	CaLG6	CaSNP2447	74.37	-	-
4526	CaLG6	CaSNP4018	74.52	scaffold00588	146251
4527	CaLG6	CaTSNP6335	74.57	scaffold02786	32304
4528	CaLG6	CaSNP2011	74.58	scaffold00067	406311
4529	CaLG6	CaSNP2977	74.58	scaffold01667	63456
4530	CaLG6	CaTSNP6863	74.59	scaffold00883	112607
4531	CaLG6	CaTSNP8559	74.59	-	-
4532	CaLG6	CaTSNP8739	74.59	scaffold02206	43516
4533	CaLG6	STMS15	74.67	-	-
4534	CaLG6	CaSNP2486	74.7	scaffold01238	76649
4535	CaLG6	CaTSNP6959	75.02	-	-
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4537	CaLG6	CaTSNP8184	75.31	-	-
4538	CaLG6	CaTSNP8878	75.55	-	-
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4541	CaLG6	CaTSNP8650	75.55	-	-
4542	CaLG6	CaTSNP8251	75.62	-	-
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4545	CaLG6	CaTSNP7206	75.74	-	-
4546	CaLG6	CaTSNP8433	75.74	-	-
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4548	CaLG6	TA14	75.75	-	-

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4557	CaLG6	CaTSNP7850	75.97	-	-
4558	CaLG6	CaTSNP7972	75.97	-	-
4559	CaLG6	CaTSNP6750	75.99	-	-
4560	CaLG6	CaTSNP7481	76	-	-
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4562	CaLG6	CaTSNP8292	76.04	-	-
4563	CaLG6	CaTSNP8864	76.04	-	-
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4569	CaLG6	CaTSNP7105	76.16	-	-
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4571	CaLG6	CaTSNP7005	76.2	scaffold00450	171423
4572	CaLG6	CaSNP2497	76.21	-	-
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4574	CaLG6	CaTSNP7329	76.36	-	-
4575	CaLG6	CaTSNP7351	76.36	-	-
4576	CaLG6	CaTSNP7355	76.36	-	-
4577	CaLG6	CaTSNP8165	76.36	-	-

4578	CaLG6	CaTSNP7725	76.37	-	-
4579	CaLG6	CaSNP1946	76.4	-	-
4580	CaLG6	GA9	76.44	-	-
4581	CaLG6	CaTSNP6291	76.51	-	-
4582	CaLG6	CaSNP113	76.53	scaffold00063	446673
4583	CaLG6	CaSNP509	76.55	scaffold00038	496958
4584	CaLG6	CaSNP30	76.58	scaffold01497	90543
4585	CaLG6	CaSNP605	76.58	-	-
4586	CaLG6	CaTSNP8543	76.65	scaffold00379	178208
4587	CaLG6	CaSNP25	76.71	scaffold00566	137252
4588	CaLG6	CaSNP745	76.71	9207264	68808
4589	CaLG6	CaSNP188	76.72	-	-
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4591	CaLG6	CaSNP870	76.81	-	-
4592	CaLG6	TA106	76.88	-	-
4593	CaLG6	NCPGR148	76.9	-	-
4594	CaLG6	CaTSNP8039	77.11	-	-
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4596	CaLG6	CaTSNP8077	77.15	-	-
4597	CaLG6	CaSNP395	77.37	-	-
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4599	CaLG6	NCPGR187	77.72	-	-
4600	CaLG6	NCPGR221	77.74	-	-
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4603	CaLG6	CaSNP829	77.96	scaffold00395	195843
4604	CaLG6	NCPGR4	78.04	-	-
4605	CaLG6	CaSNP367	78.09	-	-
4606	CaLG6	CaTSNP6110	78.2	-	-

4607	CaLG6	CaSNP17	78.22	-	-
4608	CaLG6	CaTSNP7157	78.27	scaffold06790	8525
4609	CaLG6	CaTSNP7303	78.27	scaffold00256	220910
4610	CaLG6	CaTSNP9016	78.27	-	-
4611	CaLG6	CaTSNP7400	78.43	-	-
4612	CaLG6	CaTSNP9069	78.44	-	-
4613	CaLG6	NCPGR202	78.62	-	-
4614	CaLG6	CaTSNP8990	78.65	scaffold00952	95708
4615	CaLG6	GA34	78.74	-	-
4616	CaLG6	CaTSNP7696	78.88	-	-
4617	CaLG6	CaSNP240	78.96	scaffold01337	79461
4618	CaLG6	CaTSNP7284	79.14	scaffold00595	133210
4619	CaLG6	CaTSNP6468	79.19	-	-
4620	CaLG6	CaTSNP9074	79.25	-	-
4621	CaLG6	CaTSNP8028	79.28	-	-
4622	CaLG6	NCPGR200	79.57	-	-
4623	CaLG6	CaSNP4962	79.8	scaffold01920	50879
4624	CaLG6	TA176	79.87	-	-
4625	CaLG6	CaSNP2717	80.16	scaffold01492	63768
4626	CaLG6	CaSNP79	80.93	-	-
4627	CaLG6	CaTMS883	80.96	-	-
4628	CaLG6	CaTSNP7903	80.99	9204062	8839
4629	CaLG6	CaSNP879	81.24	-	-
4630	CaLG6	TR44	81.24	-	-
4631	CaLG6	CaSNP489	81.26	-	-
4632	CaLG6	CaSNP604	81.44	-	-
4633	CaLG6	CaTMS588	81.52	-	-
4634	CaLG6	CaSNP5068	81.61	-	-
4635	CaLG6	CaSNP1971	81.91	scaffold00306	206891

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4637	CaLG6	CaSNP4883	81.91	-	-
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4639	CaLG6	CaSNP2315	82.2	scaffold00225	227426
4640	CaLG6	NCPGR156	82.21	-	-
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4642	CaLG6	CaSNP2648	82.25	-	-
4643	CaLG6	CaSNP3565	82.25	9198296	23545
4644	CaLG6	CaSNP2097	82.27	scaffold01457	70998
4645	CaLG6	CaSNP4046	82.27	-	-
4646	CaLG6	CaSNP2748	82.3	scaffold00482	174561
4647	CaLG6	CaSNP3656	82.3	-	-
4648	CaLG6	CaSNP2022	82.3	-	-
4649	CaLG6	CaSNP3105	82.31	scaffold00925	105883
4650	CaLG6	CaTSNP7409	82.35	-	-
4651	CaLG6	CaSNP3122	82.37	scaffold01876	58207
4652	CaLG6	CaTSNP6345	82.4	-	-
4653	CaLG6	CaSNP3253	82.41	9196921	17868
4654	CaLG6	CaTSNP8310	82.42	-	-
4655	CaLG6	CaTSNP7500	82.43	-	-
4656	CaLG6	CaTSNP6168	82.43	-	-
4657	CaLG6	CaTMS561	82.45	-	-
4658	CaLG6	CaSNP2112	82.46	-	-
4659	CaLG6	CaTSNP8228	82.46	-	-
4660	CaLG6	CaSNP2076	82.47	-	-
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4662	CaLG6	CaTSNP8167	82.49	-	-
4663	CaLG6	CaTSNP8949	82.49	scaffold01121	109815
4664	CaLG6	CaTSNP6086	82.5	-	-

4665	CaLG6	CaTSNP7208	82.5	-	-
4666	CaLG6	CaTSNP7512	82.5	-	-
4667	CaLG6	CaTSNP7507	82.52	-	-
4668	CaLG6	CaTSNP6163	82.54	-	-
4669	CaLG6	CaTSNP8673	82.54	-	-
4670	CaLG6	CaTSNP6565	82.55	-	-
4671	CaLG6	CaTSNP6640	82.55	-	-
4672	CaLG6	CaTSNP7646	82.55	-	-
4673	CaLG6	CaTSNP9029	82.57	-	-
4674	CaLG6	CaTSNP7835	82.58	-	-
4675	CaLG6	CaSNP3157	82.58	scaffold00626	136970
4676	CaLG6	CaSNP1969	82.6	scaffold00232	229579
4677	CaLG6	CaSNP1993	82.6	-	-
4678	CaLG6	CaSNP2058	82.6	-	-
4679	CaLG6	CaTSNP6476	82.6	scaffold00253	219505
4680	CaLG6	CaTSNP6894	82.6	-	-
4681	CaLG6	CaSNP2257	82.6	-	-
4682	CaLG6	CaSNP2323	82.6	-	-
4683	CaLG6	CaSNP2938	82.6	-	-
4684	CaLG6	CaTSNP7402	82.61	-	-
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4686	CaLG6	CaTSNP7542	82.62	scaffold00853	108279
4687	CaLG6	CaTSNP8114	82.62	-	-
4688	CaLG6	CaTSNP8495	82.62	-	-
4689	CaLG6	CaTSNP8939	82.62	-	-
4690	CaLG6	CaTSNP8341	82.62	-	-
4691	CaLG6	CaSNP4364	82.65	-	-
4692	CaLG6	CaSNP2762	82.67	-	-
4693	CaLG6	CaTSNP6947	82.67	-	-

4694	CaLG6	CaSNP1961	82.7	-	-
4695	CaLG6	CaTSNP7162	82.72	-	-
4696	CaLG6	CaTSNP9123	82.72	-	-
4697	CaLG6	CaTSNP8961	82.73	scaffold00603	127406
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4704	CaLG6	CaTSNP8712	82.8	-	-
4705	CaLG6	CaTSNP6112	82.81	-	-
4706	CaLG6	CaTSNP6318	82.81	-	-
4707	CaLG6	CaTSNP9041	82.81	-	-
4708	CaLG6	TR7	82.82	-	-
4709	CaLG6	CaTSNP8054	82.84	-	-
4710	CaLG6	CaTSNP8278	82.85	scaffold01729	62700
4711	CaLG6	CaTSNP8964	82.85	-	-
4712	CaLG6	CaTSNP8951	82.91	-	-
4713	CaLG6	CaTSNP6462	82.98	-	-
4714	CaLG6	CaTSNP7900	82.98	-	-
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4716	CaLG6	CaTSNP8662	83.47	-	-
4717	CaLG6	CaSNP591	83.49	-	-
4718	CaLG6	CaTSNP9015	83.54	-	-
4719	CaLG6	CaTSNP6025	83.56	-	-
4720	CaLG6	CaTSNP8155	83.58	scaffold00102	322864
4721	CaLG6	CaTSNP7133	83.61	-	-
4722	CaLG6	CaTSNP8724	83.61	-	-

4723	CaLG6	CaTSNP7233	83.67	-	-
4724	CaLG6	CaSNP3241	83.67	-	-
4725	CaLG6	CaSNP2625	83.69	-	-
4726	CaLG6	CaSNP2735	83.7	-	-
4727	CaLG6	CaSNP2651	83.72	-	-
4728	CaLG6	CaTSNP8223	83.74	-	-
4729	CaLG6	CaTSNP8625	83.74	scaffold04106	17887
4730	CaLG6	CaTSNP6593	83.77	-	-
4731	CaLG6	CaTSNP7938	83.77	-	-
4732	CaLG6	CaSNP4458	83.89	scaffold02727	34889
4733	CaLG6	CaSNP2096	83.96	scaffold00435	185730
4734	CaLG6	CaSNP4557	83.96	-	-
4735	CaLG6	CaSNP2223	83.96	-	-
4736	CaLG6	CaSNP5057	83.96	-	-
4737	CaLG6	CaTSNP7787	83.98	-	-
4738	CaLG6	TA22	84.08	-	-
4739	CaLG6	CaSNP667	84.2	-	-
4740	CaLG6	CaSNP3207	84.22	-	-
4741	CaLG6	CEST25	84.22	-	-
4742	CaLG6	CaTSNP6195	84.34	-	-
4743	CaLG6	CaTSNP7364	84.34	-	-
4744	CaLG6	CaTSNP8355	84.34	-	-
4745	CaLG6	CaTSNP6236	84.34	-	-
4746	CaLG6	CaTSNP6785	84.42	-	-
4747	CaLG6	CaTSNP8989	84.65	-	-
4748	CaLG6	NCPGR177	84.71	-	-
4749	CaLG6	TR1	84.82	-	-
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4752	CaLG6	CaSNP417	85.15	-	-
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4754	CaLG6	CaTSNP6284	85.28	scaffold00776	124641
4755	CaLG6	TA80	85.43	-	-
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4757	CaLG6	CaGMS1238	85.51	-	-
4758	CaLG6	CaGMS1247	85.51	-	-
4759	CaLG6	CaTSNP7464	85.77	-	-
4760	CaLG6	CaTSNP7139	85.98	-	-
4761	CaLG6	NCPGR259	86.16	scaffold02522	36231
4762	CaLG6	CaSNP488	86.19	-	-
4763	CaLG6	CaSNP2038	86.24	scaffold01798	54477
4764	CaLG6	NCPGR139	86.3	-	-
4765	CaLG6	CaTSNP7251	86.35	-	-
4766	CaLG6	CaSNP3618	86.37	-	-
4767	CaLG6	CaSNP287	86.37	-	-
4768	CaLG6	CaTMS945	86.53	-	-
4769	CaLG6	NCPGR155	86.56	-	-
4770	CaLG6	CaTSNP6515	86.7	-	-
4771	CaLG6	CaTSNP8266	86.75	scaffold01481	71734
4772	CaLG6	CaSNP902	86.82	-	-
4773	CaLG6	CaTSNP6434	86.86	-	-
4774	CaLG6	NCPGR229	86.93	scaffold02846	47691
4775	CaLG6	CaTSNP8936	87.04	-	-
4776	CaLG6	CaTSNP6843	87.09	-	-
4777	CaLG6	CaTSNP8627	87.1	-	-
4778	CaLG6	CaTSNP6680	87.1	-	-
4779	CaLG6	PIP40	87.15	-	-
4780	CaLG6	CaTSNP8024	87.18	-	-

4781	CaLG6	CaTSNP6118	87.24	-	-
4782	CaLG6	CESSR71	87.29	-	-
4783	CaLG6	CaTSNP6158	87.31	-	-
4784	CaLG6	CaTSNP6758	87.34	-	-
4785	CaLG6	CaSNP3993	87.47	-	-
4786	CaLG6	CaSNP392	87.51	-	-
4787	CaLG6	CaTSNP6733	87.56	scaffold01289	89071
4788	CaLG6	CaTSNP8211	87.59	-	-
4789	CaLG6	CaTSNP7627	87.6	-	-
4790	CaLG6	CaSNP649	87.65	-	-
4791	CaLG6	CaTSNP7571	87.65	-	-
4792	CaLG6	CaTSNP8946	87.89	scaffold01455	65597
4793	CaLG6	CaTSNP8987	87.94	scaffold00411	173754
4794	CaLG6	CaTSNP6377	88	9208135	54675
4795	CaLG6	CaTSNP7480	88	scaffold00886	133080
4796	CaLG6	CaSNP4896	88.04	9106604	36114
4797	CaLG6	CaSNP2273	88.04	scaffold00340	188432
4798	CaLG6	CaTSNP6692	88.05	9111991	37958
4799	CaLG6	CaTSNP6166	88.07	-	-
4800	CaLG6	CaTSNP6591	88.07	-	-
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4803	CaLG6	CaTSNP7019	88.31	-	-
4804	CaLG6	CaTSNP7462	88.31	9115979	12046
4805	CaLG6	CaTSNP7838	88.31	-	-
4806	CaLG6	CaTSNP8986	88.36	-	-
4807	CaLG6	CaTSNP6178	88.51	-	-
4808	CaLG6	CaTSNP6229	88.51	-	-
4809	CaLG6	CaSNP4632	88.6	-	-

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4813	CaLG6	CaSNP668	88.71	-	-
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4815	CaLG6	CaSNP1921	88.73	-	-
4816	CaLG6	CaTSNP7510	88.77	-	-
4817	CaLG6	CaTSNP7914	88.78	-	-
4818	CaLG6	CaSNP794	88.78	-	-
4819	CaLG6	CaTSNP6695	88.79	-	-
4820	CaLG6	CaTSNP9039	88.8	-	-
4821	CaLG6	CaTSNP7620	88.81	-	-
4822	CaLG6	CaTSNP6748	88.81	-	-
4823	CaLG6	CaTSNP6228	88.85	-	-
4824	CaLG6	CaTSNP7597	88.85	-	-
4825	CaLG6	CaTSNP7737	88.86	-	-
4826	CaLG6	CaSNP3133	88.87	-	-
4827	CaLG6	CaTSNP7291	88.9	9213386	48801
4828	CaLG6	CaTSNP7691	88.9	-	-
4829	CaLG6	CaSNP178	88.91	-	-
4830	CaLG6	CaSNP4343	88.91	-	-
4831	CaLG6	CaSNP2049	88.93	scaffold00916	97792
4832	CaLG6	CaTSNP7797	89.15	-	-
4833	CaLG6	CaSNP2505	89.23	scaffold01502	68795
4834	CaLG6	CaTSNP7249	89.27	-	-
4835	CaLG6	CaSNP2800	89.28	-	-
4836	CaLG6	CaSNP3770	89.28	scaffold03478	26564
4837	CaLG6	CaSNP2101	89.28	scaffold01183	83807
4838	CaLG6	CaSNP3057	89.28	scaffold00590	140198

4839	CaLG6	CaSNP3900	89.28	-	-
4840	CaLG6	CaSNP4276	89.28	-	-
4841	CaLG6	CaSNP2661	89.3	-	-
4842	CaLG6	CaTSNP6696	89.33	-	-
4843	CaLG6	CaTSNP6620	89.33	-	-
4844	CaLG6	CaTSNP7084	89.33	-	-
4845	CaLG6	CaSNP9	89.37	-	-
4846	CaLG6	CaTSNP6256	89.39	9200797	110926
4847	CaLG6	CaTSNP7779	89.43	scaffold00675	124190
4848	CaLG6	CaTSNP7837	89.43	-	-
4849	CaLG6	CaSNP2337	89.44	scaffold00719	125657
4850	CaLG6	CaTSNP6108	89.44	-	-
4851	CaLG6	CaTSNP7423	89.46	scaffold02005	49380
4852	CaLG6	CaSNP1975	89.47	-	-
4853	CaLG6	CaTSNP8644	89.49	scaffold02223	56969
4854	CaLG6	CaSNP2438	89.5	9093537	18330
4855	CaLG6	CaSNP2234	89.51	scaffold00009	856055
4856	CaLG6	CaTSNP6644	89.52	scaffold00215	238861
4857	CaLG6	CaTSNP7052	89.52	scaffold00508	149335
4858	CaLG6	CaTSNP7147	89.52	-	-
4859	CaLG6	CaTSNP7593	89.52	-	-
4860	CaLG6	CaTSNP8229	89.52	scaffold00135	280082
4861	CaLG6	CaTSNP7414	89.53	-	-
4862	CaLG6	CaTSNP6119	89.54	-	-
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4864	CaLG6	CaSNP2913	89.58	-	-
4865	CaLG6	CaSNP4037	89.58	-	-
4866	CaLG6	CaTSNP8312	89.61	-	-
4867	CaLG6	CaSNP2142	89.63	-	-

4868	CaLG6	CaSNP3508	89.65	-	-
4869	CaLG6	CaSNP4525	89.65	-	-
4870	CaLG6	CaSNP4216	89.65	-	-
4871	CaLG6	CaSNP3185	89.73	-	-
4872	CaLG6	CaSNP2499	89.88	-	-
4873	CaLG6	CaSNP2	89.88	-	-
4874	CaLG6	CaSNP825	89.91	-	-
4875	CaLG6	CaSNP857	89.91	-	-
4876	CaLG6	CaSNP2267	89.93	-	-
4877	CaLG6	CaSNP2590	89.93	scaffold01575	67407
4878	CaLG6	CaTSNP8423	89.94	-	-
4879	CaLG6	CaSNP2828	89.95	scaffold01335	77470
4880	CaLG6	CaSNP2622	89.97	scaffold00022	621728
4881	CaLG6	CaSNP2988	90.03	scaffold00691	125350
4882	CaLG6	CaSNP32	90.05	-	-
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4884	CaLG6	CaSNP914	90.07	scaffold01044	101763
4885	CaLG6	CaTSNP7099	90.23	-	-
4886	CaLG6	CaTSNP8514	90.23	-	-
4887	CaLG6	CaTSNP7107	90.23	-	-
4888	CaLG6	CaSNP3552	90.44	scaffold05769	10168
4889	CaLG6	CaSNP2077	90.49	scaffold00505	161647
4890	CaLG6	CaSNP3325	90.49	scaffold01271	75758
4891	CaLG6	CaSNP723	90.49	-	-
4892	CaLG6	CaTSNP6324	90.55	-	-
4893	CaLG6	CaTMS828	90.56	-	-
4894	CaLG6	CaSNP3931	90.56	-	-
4895	CaLG6	CaTSNP6944	90.58	-	-
4896	CaLG6	CaTSNP7144	90.58	-	-

4897	CaLG6	CaTSNP6824	90.6	9189824	23916
4898	CaLG6	CaTSNP7487	90.6	scaffold00197	248671
4899	CaLG6	CaTSNP8779	90.6	scaffold00261	205662
4900	CaLG6	CaSNP133	90.61	-	-
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4907	CaLG6	CaSNP3281	90.82	-	-
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4912	CaLG6	CaSNP2582	91.19	-	-
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4914	CaLG6	CaSNP2911	91.28	scaffold00456	181898
4915	CaLG6	CaSNP4751	91.28	scaffold01200	80375
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4917	CaLG6	CaSNP586	91.66	-	-
4918	CaLG6	CaSNP597	91.88	-	-
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4920	CaLG6	CaTSNP7029	92.62	9214457	21218
4921	CaLG6	CaTSNP7949	92.62	scaffold00247	228431
4922	CaLG6	CaSNP741	92.89	scaffold00596	158197
4923	CaLG6	CaSNP2031	92.92	-	-
4924	CaLG6	CaSNP2716	92.98	9202099	26494
4925	CaLG6	CaSNP3701	93.01	-	-

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4928	CaLG6	CaTSNP6669	93.1	scaffold00477	158842
4929	CaLG6	CaTSNP8344	93.1	-	-
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4931	CaLG6	CaTSNP8467	93.19	-	-
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4933	CaLG6	CaSNP548	93.2	-	-
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4935	CaLG6	CaSNP388	93.22	-	-
4936	CaLG6	CaSNP885	93.23	-	-
4937	CaLG6	CaSNP302	93.25	-	-
4938	CaLG6	CaTSNP6368	93.26	-	-
4939	CaLG6	CaTSNP8711	93.26	-	-
4940	CaLG6	CaSNP274	93.27	scaffold00647	149324
4941	CaLG6	CaSNP531	93.27	-	-
4942	CaLG6	CaSNP685	93.27	-	-
4943	CaLG6	CaSNP812	93.27	scaffold01140	79669
4944	CaLG6	CaSNP764	93.27	-	-
4945	CaLG6	CaSNP160	93.31	scaffold01824	53557
4946	CaLG6	CaTSNP7844	93.32	scaffold00818	109026
4947	CaLG6	CaSNP34	93.33	scaffold01378	82707
4948	CaLG6	CaSNP639	93.33	-	-
4949	CaLG6	ESNP93	93.33	-	-
4950	CaLG6	CaTSNP7934	93.35	scaffold01354	68854
4951	CaLG6	CaTSNP7194	93.41	scaffold00146	266812
4952	CaLG6	CaTSNP8509	93.41	scaffold01741	64916
4953	CaLG6	CaTSNP6627	93.44	-	-
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4955	CaLG6	CaTSNP7920	93.44	-	-
4956	CaLG6	CaTSNP8481	93.45	-	-
4957	CaLG6	CaSNP1976	93.47	scaffold00236	279539
4958	CaLG6	CaTSNP6403	93.49	-	-
4959	CaLG6	CaSNP2761	93.5	-	-
4960	CaLG6	CaSNP3419	93.5	-	-
4961	CaLG6	CaSNP4676	93.5	scaffold03453	23429
4962	CaLG6	CaSNP2019	93.51	-	-
4963	CaLG6	CaTSNP8016	93.53	scaffold01281	76639
4964	CaLG6	CaSNP5100	93.79	scaffold06338	8730
4965	CaLG6	CaSNP2341	93.8	-	-
4966	CaLG6	CaTSNP6828	93.83	scaffold01539	78308
4967	CaLG6	CaSNP2620	93.85	-	-
4968	CaLG6	CaTSNP7660	93.85	9206634	18470
4969	CaLG6	CaSNP2190	93.88	-	-
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4971	CaLG6	CaSNP5126	93.93	-	-
4972	CaLG6	CaTSNP6740	94.08	scaffold00251	233382
4973	CaLG6	CaTSNP6772	94.08	scaffold01847	66206
4974	CaLG6	CaTSNP8693	94.08	-	-
4975	CaLG6	CaTSNP6211	94.08	-	-
4976	CaLG6	CaTSNP6212	94.08	-	-
4977	CaLG6	CaTSNP8360	94.08	-	-
4978	CaLG6	CaTSNP8301	94.08	scaffold01883	51603
4979	CaLG6	CaTSNP7831	94.08	-	-
4980	CaLG6	CaTSNP7979	94.1	9182029	31513
4981	CaLG6	CaTSNP8150	94.1	-	-
4982	CaLG6	CaTSNP9007	94.1	-	-
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4984	CaLG6	CaTSNP8372	94.1	-	-
4985	CaLG6	CaSNP4293	94.18	-	-
4986	CaLG6	CaSNP3351	94.32	-	-
4987	CaLG6	CaSNP2411	94.43	scaffold03166	27938
4988	CaLG6	CaSNP3118	94.46	-	-
4989	CaLG6	CaSNP4733	94.47	scaffold07313	6963
4990	CaLG6	CaSNP3893	94.48	scaffold02926	30109
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4992	CaLG6	CaSNP2398	94.48	-	-
4993	CaLG6	CaSNP2560	94.48	-	-
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4996	CaLG6	CaSNP3166	94.48	9215454	34605
4997	CaLG6	CaSNP4708	94.48	-	-
4998	CaLG6	CaSNP2778	94.48	scaffold02446	37612
4999	CaLG6	CaSNP2055	94.49	-	-
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5006	CaLG6	CaSNP5141	95.01	scaffold02282	62789
5007	CaLG6	CaSNP3305	95.01	scaffold01032	87953
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5009	CaLG6	CaSNP4580	95.07	-	-
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5019	CaLG6	CaSNP4120	95.13	scaffold02088	55702
5020	CaLG6	CaSNP4594	95.13	scaffold05646	10633
5021	CaLG6	CaSNP4655	95.13	scaffold05893	9846
5022	CaLG6	CaSNP4755	95.13	scaffold02442	62654
5023	CaLG6	CaSNP4786	95.13	scaffold00970	98950
5024	CaLG6	CaSNP4487	95.14	scaffold00855	118071
5025	CaLG6	CaSNP2751	95.15	scaffold00620	136563
5026	CaLG6	CaTSNP7649	95.15	scaffold02939	29904
5027	CaLG6	CaTSNP9011	95.15	-	-
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5029	CaLG6	CaSNP4847	95.15	-	-
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5031	CaLG6	CaTSNP6844	95.15	-	-
5032	CaLG6	CaTSNP8322	95.15	-	-
5033	CaLG6	CaTSNP6588	95.15	scaffold00552	144278
5034	CaLG6	CaTSNP6745	95.15	-	-
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5036	CaLG6	CaSNP2963	95.16	-	-
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5039	CaLG6	CaSNP4332	95.17	scaffold01794	52787
5040	CaLG6	CaSNP2220	95.17	scaffold02534	42272
5041	CaLG6	CaSNP1990	95.17	scaffold00619	139561

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5045	CaLG6	CaSNP2609	95.17	scaffold00836	102346
5046	CaLG6	CaSNP2699	95.17	scaffold02169	53005
5047	CaLG6	CaSNP2710	95.17	scaffold01355	74915
5048	CaLG6	CaSNP2715	95.17	scaffold01509	65193
5049	CaLG6	CaSNP2786	95.17	-	-
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5052	CaLG6	CaSNP3066	95.17	-	-
5053	CaLG6	CaSNP3114	95.17	-	-
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5055	CaLG6	CaSNP3992	95.17	scaffold02641	42344
5056	CaLG6	CaSNP4025	95.17	9214727	49433
5057	CaLG6	CaSNP4077	95.17	scaffold03406	28793
5058	CaLG6	CaSNP4096	95.17	-	-
5059	CaLG6	CaSNP4140	95.17	9204852	11118
5060	CaLG6	CaSNP4248	95.17	scaffold03548	32021
5061	CaLG6	CaSNP4639	95.17	scaffold01518	81621
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5068	CaLG6	CaSNP3268	95.18	scaffold07657	7757
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5072	CaLG6	CaSNP2354	95.18	scaffold01097	87368
5073	CaLG6	CaSNP2823	95.18	scaffold00504	160245
5074	CaLG6	CaSNP2995	95.18	scaffold02694	42994
5075	CaLG6	CaSNP3013	95.18	scaffold02307	49046
5076	CaLG6	CaSNP3296	95.18	9205465	20811
5077	CaLG6	CaSNP3853	95.18	scaffold02318	40359
5078	CaLG6	CaSNP3969	95.18	scaffold01347	80598
5079	CaLG6	CaSNP4007	95.18	scaffold00388	179038
5080	CaLG6	CaSNP4845	95.18	scaffold00758	141769
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5083	CaLG6	CaSNP4581	95.18	scaffold01331	86312
5084	CaLG6	CaSNP2247	95.18	scaffold00259	234725
5085	CaLG6	CaSNP3685	95.18	9214184	13221
5086	CaLG6	CaSNP4086	95.18	-	-
5087	CaLG6	CaSNP3415	95.18	9203133	22223
5088	CaLG6	CaSNP3382	95.19	9207196	29355
5089	CaLG6	CaSNP3641	95.19	scaffold02401	39224
5090	CaLG6	CaSNP3657	95.19	scaffold02840	40313
5091	CaLG6	CaSNP4222	95.19	scaffold02785	36890
5092	CaLG6	CaSNP4444	95.19	contig66341	1010
5093	CaLG6	CaSNP3529	95.19	-	-
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5095	CaLG6	CaSNP4290	95.2	9215297	16367
5096	CaLG6	CaSNP3769	95.2	scaffold03024	29500
5097	CaLG6	CaSNP4521	95.2	scaffold03373	33925
5098	CaLG6	CaSNP3687	95.2	scaffold06892	7913
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5105	CaLG6	CaSNP2416	95.22	scaffold00809	107332
5106	CaLG6	CaSNP4579	95.22	scaffold01334	93808
5107	CaLG6	CaSNP2521	95.22	scaffold01236	89540
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5116	CaLG6	CaSNP4765	95.24	scaffold01246	84735
5117	CaLG6	CaSNP2467	95.25	-	-
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5120	CaLG6	CaSNP5019	95.25	scaffold04405	15881
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5123	CaLG6	CaSNP2102	95.25	scaffold00712	125672
5124	CaLG6	CaSNP3822	95.25	scaffold02351	47372
5125	CaLG6	CaSNP2338	95.25	scaffold00356	235581
5126	CaLG6	CaSNP2441	95.25	scaffold00896	99033
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5132	CaLG6	CaSNP3041	95.26	scaffold01006	120297
5133	CaLG6	CaSNP3812	95.26	9206044	32764
5134	CaLG6	CaSNP4335	95.26	-	-
5135	CaLG6	CaSNP4382	95.26	9195006	28632
5136	CaLG6	CaSNP4314	95.26	scaffold02110	64188
5137	CaLG6	CaSNP4891	95.27	scaffold00685	139865
5138	CaLG6	CaSNP2906	95.27	scaffold01434	75678
5139	CaLG6	CaSNP4787	95.27	-	-
5140	CaLG6	CaSNP4688	95.27	scaffold01650	70945
5141	CaLG6	CaSNP3035	95.27	scaffold01048	109479
5142	CaLG6	CaSNP4384	95.27	scaffold00911	123672
5143	CaLG6	CaSNP4023	95.27	scaffold01851	56950
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5145	CaLG6	CaSNP4459	95.28	scaffold01571	79500
5146	CaLG6	CaSNP2763	95.28	scaffold01127	82761
5147	CaLG6	CaSNP2417	95.28	-	-
5148	CaLG6	CaSNP2537	95.28	-	-
5149	CaLG6	CaSNP2971	95.28	scaffold01510	64433
5150	CaLG6	CaSNP3031	95.28	scaffold00892	135072
5151	CaLG6	CaSNP3093	95.28	scaffold00697	143698
5152	CaLG6	CaSNP3308	95.28	-	-
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5154	CaLG6	CaSNP3714	95.28	scaffold01420	84146
5155	CaLG6	CaSNP3833	95.28	scaffold02428	57246
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5157	CaLG6	CaSNP4161	95.28	-	-

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5161	CaLG6	CaSNP4832	95.28	-	-
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5163	CaLG6	CaSNP4915	95.28	-	-
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5165	CaLG6	CaSNP5099	95.28	-	-
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5167	CaLG6	CaSNP2297	95.29	scaffold00352	182526
5168	CaLG6	CaSNP2962	95.29	scaffold05085	12476
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5170	CaLG6	CaSNP3171	95.29	scaffold00699	117925
5171	CaLG6	CaSNP3445	95.29	-	-
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5173	CaLG6	CaSNP3596	95.29	-	-
5174	CaLG6	CaSNP3613	95.29	scaffold00813	129783
5175	CaLG6	CaSNP3632	95.29	scaffold02311	43270
5176	CaLG6	CaSNP3640	95.29	scaffold00614	150700
5177	CaLG6	CaSNP3716	95.29	scaffold02130	43703
5178	CaLG6	CaSNP4187	95.29	scaffold02323	49619
5179	CaLG6	CaSNP4270	95.29	-	-
5180	CaLG6	CaSNP4397	95.29	scaffold00138	287076
5181	CaLG6	CaSNP4920	95.29	scaffold02019	49149
5182	CaLG6	CaSNP5078	95.29	scaffold02338	60405
5183	CaLG6	CaSNP4123	95.3	scaffold02032	55980
5184	CaLG6	CaSNP4547	95.3	scaffold03012	43692
5185	CaLG6	CaSNP2895	95.3	scaffold01733	54389
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5187	CaLG6	CaSNP2303	95.36	-	-
5188	CaLG6	CaSNP5089	95.36	scaffold01445	71299
5189	CaLG6	CaSNP3393	95.37	scaffold01899	52177
5190	CaLG6	CaSNP4941	95.37	9202992	14568
5191	CaLG6	CaSNP2425	95.38	scaffold01075	97286
5192	CaLG6	CaSNP2850	95.38	scaffold00560	137081
5193	CaLG6	CaSNP3516	95.38	scaffold02776	41097
5194	CaLG6	CaTSNP6367	95.38	-	-
5195	CaLG6	CaSNP2750	95.39	-	-
5196	CaLG6	CaSNP3229	95.39	-	-
5197	CaLG6	CaSNP3773	95.39	scaffold01671	67549
5198	CaLG6	CaSNP3945	95.39	scaffold02367	40711
5199	CaLG6	CaSNP4121	95.39	scaffold02380	48839
5200	CaLG6	CaSNP4273	95.39	-	-
5201	CaLG6	CaSNP4550	95.39	scaffold02851	35287
5202	CaLG6	CaSNP4586	95.39	-	-
5203	CaLG6	CaSNP2657	95.39	9208091	14358
5204	CaLG6	CaSNP4312	95.39	scaffold01565	65793
5205	CaLG6	CaSNP4950	95.4	-	-
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5207	CaLG6	CaSNP3965	95.4	scaffold00912	96835
5208	CaLG6	CaSNP2255	95.4	scaffold00509	168228
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5210	CaLG6	CaSNP4098	95.42	scaffold01064	98118
5211	CaLG6	CaSNP4306	95.42	9192557	19500
5212	CaLG6	CaSNP2684	95.43	scaffold01427	72203
5213	CaLG6	CaTSNP8429	95.43	-	-
5214	CaLG6	CaSNP2431	95.43	scaffold01217	78934
5215	CaLG6	CaSNP2768	95.43	scaffold02204	44975

5216	CaLG6	CaSNP2986	95.43	scaffold01468	86259
5217	CaLG6	CaSNP3979	95.43	scaffold01713	65239
5218	CaLG6	CaSNP4257	95.43	scaffold01676	57306
5219	CaLG6	CaSNP4407	95.43	scaffold00654	171334
5220	CaLG6	CaSNP2721	95.43	9191830	26517
5221	CaLG6	CaSNP4495	95.44	scaffold01193	95056
5222	CaLG6	CaSNP4202	95.44	9189576	16550
5223	CaLG6	CaSNP4198	95.44	scaffold01722	73533
5224	CaLG6	CaTSNP7279	95.44	-	-
5225	CaLG6	CaTSNP7317	95.44	scaffold02869	34724
5226	CaLG6	CaTSNP7461	95.44	scaffold01039	96477
5227	CaLG6	CaSNP2116	95.44	-	-
5228	CaLG6	CaSNP2468	95.44	scaffold00568	139865
5229	CaLG6	CaSNP2548	95.44	scaffold01656	69657
5230	CaLG6	CaSNP3112	95.44	-	-
5231	CaLG6	CaSNP3239	95.44	scaffold01959	57750
5232	CaLG6	CaSNP3262	95.44	scaffold07906	6244
5233	CaLG6	CaSNP3482	95.44	scaffold08026	6111
5234	CaLG6	CaSNP3494	95.44	scaffold01045	93525
5235	CaLG6	CaSNP3678	95.44	scaffold01422	71053
5236	CaLG6	CaSNP3870	95.44	-	-
5237	CaLG6	CaSNP3958	95.44	-	-
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5239	CaLG6	CaSNP4178	95.44	scaffold01069	94465
5240	CaLG6	CaSNP4208	95.44	scaffold01685	56278
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5243	CaLG6	CaSNP4721	95.44	-	-
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5245	CaLG6	CaSNP5131	95.45	-	-
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5247	CaLG6	CaSNP2355	95.46	scaffold00520	160735
5248	CaLG6	CaTSNP8511	95.46	-	-
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5250	CaLG6	CaSNP4242	95.46	scaffold00513	198287
5251	CaLG6	CaTSNP6179	95.46	scaffold01278	85313
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5253	CaLG6	CaTSNP6781	95.46	scaffold01205	89436
5254	CaLG6	CaTSNP7100	95.46	scaffold01103	96068
5255	CaLG6	CaTSNP7167	95.46	-	-
5256	CaLG6	CaTSNP7935	95.46	-	-
5257	CaLG6	CaTSNP8691	95.46	scaffold01548	72778
5258	CaLG6	CaTSNP8918	95.46	-	-
5259	CaLG6	CaTSNP9097	95.46	-	-
5260	CaLG6	CaTSNP9139	95.46	scaffold02274	58240
5261	CaLG6	CaTSNP9150	95.46	-	-
5262	CaLG6	CaTSNP6645	95.46	-	-
5263	CaLG6	CaTSNP7042	95.46	scaffold02137	53858
5264	CaLG6	CaTSNP7421	95.46	-	-
5265	CaLG6	CaTSNP7529	95.46	scaffold01344	77607
5266	CaLG6	CaTSNP6130	95.47	scaffold00640	146457
5267	CaLG6	CaTSNP6458	95.47	scaffold02832	31583
5268	CaLG6	CaTSNP6615	95.47	-	-
5269	CaLG6	CaTSNP6697	95.47	-	-
5270	CaLG6	CaTSNP7429	95.47	-	-
5271	CaLG6	CaTSNP7485	95.47	9087496	28333
5272	CaLG6	CaTSNP6205	95.47	-	-
5273	CaLG6	CaTSNP6351	95.47	-	-

5274	CaLG6	CaTSNP7345	95.47	scaffold02213	50747
5275	CaLG6	CaTSNP7860	95.47	scaffold02591	35112
5276	CaLG6	CaTSNP7948	95.47	-	-
5277	CaLG6	CaTSNP7999	95.47	scaffold01011	106232
5278	CaLG6	CaTSNP8081	95.47	-	-
5279	CaLG6	CaTSNP8635	95.47	-	-
5280	CaLG6	CaTSNP8638	95.47	scaffold01206	92599
5281	CaLG6	CaTSNP8861	95.47	scaffold00585	142598
5282	CaLG6	CaSNP3660	95.48	scaffold02617	38922
5283	CaLG6	CaTSNP7181	95.48	-	-
5284	CaLG6	CaTSNP6265	95.48	-	-
5285	CaLG6	CaTSNP6370	95.48	9201473	10518
5286	CaLG6	CaTSNP6480	95.48	-	-
5287	CaLG6	CaTSNP7454	95.48	-	-
5288	CaLG6	CaTSNP7533	95.48	scaffold02554	41409
5289	CaLG6	CaTSNP8675	95.48	-	-
5290	CaLG6	CaTSNP6242	95.49	-	-
5291	CaLG6	CaTSNP8778	95.49	-	-
5292	CaLG6	CaSNP2363	95.5	-	-
5293	CaLG6	CaTSNP6854	95.51	-	-
5294	CaLG6	CaTSNP7915	95.53	scaffold01629	70850
5295	CaLG6	CaTSNP7155	95.55	scaffold03081	28939
5296	CaLG6	CaTSNP7071	95.62	scaffold01853	50950
5297	CaLG6	CaTSNP8630	95.65	-	-
5298	CaLG6	CaTSNP8123	95.66	scaffold06371	8684
5299	CaLG6	CaTSNP7679	95.67	scaffold02704	34820
5300	CaLG6	CaTSNP8218	95.67	-	-
5301	CaLG6	CaSNP3369	95.83	scaffold08692	5416
5302	CaLG6	CaSNP4348	96.05	scaffold01549	63862

5303	CaLG6	CaTSNP6438	96.15	scaffold00921	117148
5304	CaLG6	CaGMS3	96.31	-	-
5305	CaLG6	CaTSNP8376	96.37	scaffold00436	155262
5306	CaLG6	CaTMS600	97.14	-	-
5307	CaLG6	CaTSNP8882	98.8	scaffold04064	30817
5308	CaLG6	CaSNP2306	102.2	scaffold00985	114206
5309	CaLG6	CaGMS1254	105.3	-	-
5310	CaLG6	CaSNP4739	106.7	9212181	5067
5311	CaLG6	PIP175	110.1	-	-
5312	CaLG6	PIP26	113.9	scaffold00547	144598
5313	CaLG6	PIP79	115.4	-	-
5314	CaLG6	PIP144	121.1	-	-
5315	CaLG6	PIP155	123	-	-
5316	CaLG6	CEST180	124.3	-	-
5317	CaLG6	CESSR186	126.3	-	-
5318	CaLG6	PIP85	127.7	-	-
5319	CaLG6	STMS12	131.3	-	-
5320	CaLG6	PIP41	131.9	-	-
5321	CaLG6	PIP30	138.5	-	-
5322	CaLG7	CaSNP2310	0	scaffold01504	71743
5323	CaLG7	CaSNP1983	0.358	scaffold00338	196972
5324	CaLG7	CaSNP2244	5.334	scaffold00405	172504
5325	CaLG7	CaSNP2644	5.532	-	-
5326	CaLG7	CaTSNP6138	7.377	scaffold00188	260221
5327	CaLG7	CaSNP2734	8.135	-	-
5328	CaLG7	CaSNP2350	8.471	9202761	10621
5329	CaLG7	NCPGR32	13.13	-	-
5330	CaLG7	CaSNP3485	13.83	scaffold02435	45364
5331	CaLG7	CaGMS473	13.9	-	-

5332	CaLG7	CaTMS911	14.26	-	-
5333	CaLG7	CaSNP3541	15.69	-	-
5334	CaLG7	CaSNP2305	15.73	scaffold00383	173027
5335	CaLG7	CaSNP3136	16.06	-	-
5336	CaLG7	CaSNP1958	16.1	scaffold00187	245173
5337	CaLG7	CaSNP4597	18.36	-	-
5338	CaLG7	CaSNP341	18.98	-	-
5339	CaLG7	CaSNP768	18.98	-	-
5340	CaLG7	CaSNP4241	19.09	contig53746	1611
5341	CaLG7	CaSNP4809	19.09	scaffold04022	30003
5342	CaLG7	CaSNP716	19.14	scaffold00665	118730
5343	CaLG7	CaSNP4879	19.43	scaffold01599	67792
5344	CaLG7	CaTSNP6217	19.55	-	-
5345	CaLG7	CaSNP642	19.57	scaffold00558	144513
5346	CaLG7	CaSNP2032	19.69	scaffold05407	11211
5347	CaLG7	CaSNP2260	19.69	9189465	85250
5348	CaLG7	CaSNP4415	19.69	scaffold00760	135432
5349	CaLG7	CaSNP4540	19.69	scaffold05667	10460
5350	CaLG7	CaSNP4685	19.69	scaffold00512	155884
5351	CaLG7	CaSNP2672	19.87	scaffold02648	48570
5352	CaLG7	CaSNP2805	19.91	scaffold02925	39282
5353	CaLG7	CaSNP4004	19.94	scaffold01040	95617
5354	CaLG7	CaSNP3924	20.23	scaffold02880	30933
5355	CaLG7	CEST93	20.23	-	-
5356	CaLG7	CaTSNP7665	20.57	scaffold00152	283972
5357	CaLG7	CaSNP3213	20.74	scaffold00945	118916
5358	CaLG7	CaSNP3464	20.74	scaffold00462	164300
5359	CaLG7	CaSNP2047	20.79	scaffold01243	75267
5360	CaLG7	CaSNP4209	20.79	scaffold01282	90022

5361	CaLG7	CaSNP4351	20.82	scaffold01821	52306
5362	CaLG7	CaSNP1995	20.87	9214040	41733
5363	CaLG7	CaSNP2629	20.91	scaffold00361	195950
5364	CaLG7	CaSNP2280	20.99	scaffold00446	165922
5365	CaLG7	CaSNP3143	20.99	-	-
5366	CaLG7	CaSNP3159	20.99	scaffold02179	45353
5367	CaLG7	CaSNP3431	20.99	-	-
5368	CaLG7	CaSNP4069	20.99	scaffold00605	150663
5369	CaLG7	CaSNP2245	21.04	-	-
5370	CaLG7	H2I104	21.05	-	-
5371	CaLG7	CaSNP1938	21.07	scaffold00307	198791
5372	CaLG7	CaSNP3752	21.08	scaffold02286	44293
5373	CaLG7	CaSNP3009	21.13	-	-
5374	CaLG7	CaSNP2385	21.18	scaffold00563	162141
5375	CaLG7	CaSNP2933	21.18	-	-
5376	CaLG7	CaSNP3980	21.2	-	-
5377	CaLG7	TA21	21.37	-	-
5378	CaLG7	CaSNP2083	22.91	scaffold00262	207492
5379	CaLG7	CaSNP3307	23.46	-	-
5380	CaLG7	CaSNP184	23.97	-	-
5381	CaLG7	CaSNP916	23.97	-	-
5382	CaLG7	CaGMS122	25.29	-	-
5383	CaLG7	CaGMS369	25.32	-	-
5384	CaLG7	CaGMS1298	25.63	scaffold11009	3827
5385	CaLG7	CaTMS1084	25.63	-	-
5386	CaLG7	GA102	25.7	-	-
5387	CaLG7	CaSNP2929	25.91	scaffold01424	66192
5388	CaLG7	NCPGR255	26.82	-	-
5389	CaLG7	CaTSNP7238	27.1	-	-

5390	CaLG7	CaTSNP8710	28.09	scaffold01312	83048
5391	CaLG7	CaSNP3488	28.3	scaffold01766	56285
5392	CaLG7	CaSNP802	28.98	-	-
5393	CaLG7	CaGMS286	29.97	scaffold05841	9986
5394	CaLG7	CaTMS762	30.2	-	-
5395	CaLG7	NCPGR130	31.15	scaffold01885	50984
5396	CaLG7	CaTMS939	31.19	-	-
5397	CaLG7	CaGMS190	31.41	-	-
5398	CaLG7	CaTMS767	31.42	-	-
5399	CaLG7	TA78	32	-	-
5400	CaLG7	H5G12	32.52	-	-
5401	CaLG7	CaSNP2039	33.02	9196050	29481
5402	CaLG7	TA18	33.41	-	-
5403	CaLG7	TA28	34.29	-	-
5404	CaLG7	CaSNP2743	34.42	-	-
5405	CaLG7	TS62	35.2	-	-
5406	CaLG7	CaTSNP7350	35.83	scaffold01482	64588
5407	CaLG7	PIP44	36.31	-	-
5408	CaLG7	CaSNP4634	36.56	9214218	29509
5409	CaLG7	TAA59	36.57	-	-
5410	CaLG7	CaSNP2626	36.65	-	-
5411	CaLG7	CaSNP3028	37.04	scaffold01058	89195
5412	CaLG7	TA140	37.3	-	-
5413	CaLG7	NCPGR52	37.43	-	-
5414	CaLG7	CaSNP726	37.67	9213361	21616
5415	CaLG7	TAA58	37.8	-	-
5416	CaLG7	CaSNP4577	37.91	scaffold00325	220224
5417	CaLG7	CaTSNP7514	37.94	scaffold00470	149467
5418	CaLG7	CaSNP2360	38.09	scaffold01955	51640

5419	CaLG7	CaSNP3784	38.31	scaffold03073	39119
5420	CaLG7	CaSNP4426	38.46	scaffold01316	88708
5421	CaLG7	CaSNP1953	39.07	-	-
5422	CaLG7	CaGMS1153	39.17	-	-
5423	CaLG7	CaSNP4319	39.29	scaffold03364	24707
5424	CaLG7	CaTSNP6964	39.39	scaffold01346	69223
5425	CaLG7	CaSNP2052	39.73	-	-
5426	CaLG7	CESSR118	39.86	scaffold00016	731423
5427	CaLG7	CaSNP2370	40.51	scaffold00488	176882
5428	CaLG7	CaSNP3578	40.51	scaffold02285	40508
5429	CaLG7	GAA44	40.89	-	-
5430	CaLG7	CaSNP1928	41.1	scaffold00598	151090
5431	CaLG7	CESSR121	42.22	-	-
5432	CaLG7	CaSNP905	43.06	-	-
5433	CaLG7	CaSNP383	44.86	scaffold00637	144516
5434	CaLG7	CaSNP156	45.03	-	-
5435	CaLG7	CaSNP562	45.32	-	-
5436	CaLG7	CaSNP165	45.65	-	-
5437	CaLG7	CaSNP683	45.81	scaffold00773	108334
5438	CaLG7	CaSNP284	45.89	-	-
5439	CaLG7	CaSNP799	45.97	scaffold00286	200550
5440	CaLG7	CaSNP195	45.98	scaffold01388	80509
5441	CaLG7	CaSNP722	45.98	-	-
5442	CaLG7	CaSNP671	46	scaffold00291	207615
5443	CaLG7	CaSNP31	46.04	9207294	90230
5444	CaLG7	CaSNP182	46.05	-	-
5445	CaLG7	CaSNP222	46.16	scaffold01008	103180
5446	CaLG7	CaSNP246	46.16	scaffold02642	41552
5447	CaLG7	CaSNP296	46.16	scaffold00549	176004

5448	CaLG7	CaSNP42	46.16	-	-
5449	CaLG7	CaSNP67	46.16	-	-
5450	CaLG7	CaSNP835	46.16	-	-
5451	CaLG7	CaSNP846	46.16	-	-
5452	CaLG7	CaSNP57	46.26	scaffold02100	44349
5453	CaLG7	CaSNP3725	46.44	scaffold02242	52436
5454	CaLG7	CaSNP3070	46.49	scaffold06623	9243
5455	CaLG7	CaSNP4642	46.49	-	-
5456	CaLG7	CaSNP694	46.53	scaffold01083	84947
5457	CaLG7	NCPGR249	46.61	scaffold01806	53608
5458	CaLG7	CaSNP3273	47.4	-	-
5459	CaLG7	PIP128	47.86	-	-
5460	CaLG7	CaSNP2572	48.27	scaffold00373	187937
5461	CaLG7	CaSNP4109	48.35	scaffold02207	49551
5462	CaLG7	CaSNP2944	48.37	scaffold01679	58942
5463	CaLG7	CaSNP4124	48.37	scaffold01660	77814
5464	CaLG7	CaSNP3562	48.6	-	-
5465	CaLG7	CaSNP4264	48.75	scaffold01537	73148
5466	CaLG7	CaSNP4405	48.75	-	-
5467	CaLG7	CaSNP3884	48.91	scaffold00790	129942
5468	CaLG7	CaSNP4782	49.15	-	-
5469	CaLG7	CaSNP3610	49.18	scaffold01322	97210
5470	CaLG7	CaSNP2086	49.21	scaffold06238	8968
5471	CaLG7	CaSNP4318	49.23	scaffold02142	50029
5472	CaLG7	CaSNP4373	49.23	-	-
5473	CaLG7	CaSNP5111	49.25	scaffold02141	68409
5474	CaLG7	CaSNP4095	49.25	scaffold00252	265597
5475	CaLG7	CaSNP2596	49.3	scaffold00828	104288
5476	CaLG7	CaSNP2996	49.3	scaffold00583	158908

5477	CaLG7	CaSNP3932	49.31	scaffold01669	65759
5478	CaLG7	CaSNP2635	49.35	-	-
5479	CaLG7	CaSNP4570	49.35	scaffold03119	41154
5480	CaLG7	CaSNP4768	49.35	scaffold01779	76104
5481	CaLG7	CaSNP4009	49.36	scaffold03351	30120
5482	CaLG7	CaSNP2774	49.37	scaffold01924	64455
5483	CaLG7	CaSNP3142	49.38	scaffold01035	106308
5484	CaLG7	CaSNP3039	49.39	scaffold01695	82110
5485	CaLG7	CaSNP3236	49.39	scaffold00978	111054
5486	CaLG7	CaSNP3836	49.39	9216246	36918
5487	CaLG7	CaSNP4378	49.39	9204670	39517
5488	CaLG7	CaSNP4392	49.39	scaffold01657	73278
5489	CaLG7	CaSNP4092	49.39	scaffold01985	64058
5490	CaLG7	CaSNP3335	49.41	scaffold01887	55488
5491	CaLG7	CaSNP2484	49.42	scaffold00400	196798
5492	CaLG7	CaSNP4282	49.42	scaffold03005	34539
5493	CaLG7	CaSNP3468	49.43	scaffold00897	121187
5494	CaLG7	CaSNP2931	49.43	scaffold01055	111392
5495	CaLG7	CaSNP2433	49.43	scaffold00953	102921
5496	CaLG7	CaSNP2726	49.43	scaffold00837	121403
5497	CaLG7	CaSNP4227	49.43	scaffold01124	88709
5498	CaLG7	CaSNP4433	49.43	scaffold02984	46417
5499	CaLG7	CaSNP5107	49.43	scaffold01301	92445
5500	CaLG7	CaSNP2412	49.45	scaffold01244	86938
5501	CaLG7	CaSNP3286	49.45	scaffold04011	18528
5502	CaLG7	CaSNP4131	49.45	scaffold01364	79366
5503	CaLG7	CaSNP4781	49.45	scaffold00662	153177
5504	CaLG7	CaSNP2591	49.45	scaffold01151	88352
5505	CaLG7	CaSNP4137	49.46	-	-

5506	CaLG7	CaSNP3490	49.46	scaffold01394	74024
5507	CaLG7	CaSNP2594	49.47	scaffold00597	164567
5508	CaLG7	CaSNP4861	49.47	scaffold00934	100412
5509	CaLG7	CaSNP2372	49.48	scaffold01324	74394
5510	CaLG7	CaSNP3240	49.48	-	-
5511	CaLG7	CaSNP2857	49.49	scaffold01361	75510
5512	CaLG7	CaSNP3102	49.49	scaffold01971	58571
5513	CaLG7	CaSNP4374	49.49	scaffold01435	71227
5514	CaLG7	CaSNP3865	49.51	scaffold02453	37641
5515	CaLG7	CaSNP3667	49.51	scaffold00586	169258
5516	CaLG7	CaSNP2720	49.51	scaffold00812	122160
5517	CaLG7	CaSNP3377	49.51	scaffold02134	56446
5518	CaLG7	CaSNP2838	49.52	scaffold01228	88020
5519	CaLG7	CaSNP4211	49.52	-	-
5520	CaLG7	CaSNP3788	49.52	scaffold00130	347313
5521	CaLG7	CaSNP4032	49.52	scaffold00116	355765
5522	CaLG7	CaSNP3483	49.52	scaffold02011	57453
5523	CaLG7	CaSNP2867	49.53	-	-
5524	CaLG7	CaSNP2592	49.54	scaffold01339	75344
5525	CaLG7	CaSNP4288	49.54	scaffold01592	82340
5526	CaLG7	CaSNP3195	49.54	9202427	41030
5527	CaLG7	CaSNP2691	49.54	scaffold01176	111793
5528	CaLG7	CaSNP3487	49.54	scaffold02357	39357
5529	CaLG7	CaSNP4548	49.54	scaffold00599	181259
5530	CaLG7	CaSNP2299	49.55	scaffold00898	132042
5531	CaLG7	CaSNP3638	49.55	scaffold05876	10815
5532	CaLG7	CaSNP3645	49.55	scaffold02240	47185
5533	CaLG7	CaSNP4814	49.55	scaffold01164	86163
5534	CaLG7	CaSNP4252	49.56	-	-

5535	CaLG7	CaSNP2396	49.56	9204473	12123
5536	CaLG7	CaSNP4532	49.56	9204723	28815
5537	CaLG7	CaSNP2263	49.57	scaffold00791	106169
5538	CaLG7	CaSNP2671	49.57	-	-
5539	CaLG7	CaSNP3960	49.57	9193511	14118
5540	CaLG7	CaSNP4960	49.57	scaffold01732	68603
5541	CaLG7	CaSNP2700	49.58	scaffold01173	78071
5542	CaLG7	CaSNP4562	49.58	scaffold01833	60987
5543	CaLG7	CaSNP2775	49.58	scaffold01507	76133
5544	CaLG7	CaSNP3176	49.58	scaffold01237	86969
5545	CaLG7	CaSNP3971	49.58	-	-
5546	CaLG7	CaSNP4003	49.59	scaffold00878	122636
5547	CaLG7	CaSNP3409	49.59	-	-
5548	CaLG7	CaSNP3376	49.59	9208817	29549
5549	CaLG7	CaSNP3938	49.59	9211189	17795
5550	CaLG7	CaSNP4034	49.59	scaffold02022	46407
5551	CaLG7	CaSNP4286	49.59	scaffold02821	31714
5552	CaLG7	CaSNP4423	49.59	scaffold03000	29327
5553	CaLG7	CaSNP3720	49.6	scaffold01242	97354
5554	CaLG7	CaSNP4255	49.6	-	-
5555	CaLG7	CaSNP2361	49.6	scaffold01019	110681
5556	CaLG7	CaSNP3467	49.6	scaffold06712	7922
5557	CaLG7	CaSNP4110	49.6	-	-
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5559	CaLG7	CaSNP3702	49.61	scaffold03290	44486
5560	CaLG7	CaSNP3206	49.61	scaffold01199	106715
5561	CaLG7	CaSNP4734	49.61	scaffold01910	65084
5562	CaLG7	CaSNP4445	49.61	-	-
5563	CaLG7	CaSNP3379	49.62	scaffold02267	61722

5564	CaLG7	CaSNP2950	49.62	scaffold05481	10960
5565	CaLG7	CaSNP3426	49.62	-	-
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5568	CaLG7	CaSNP1967	49.63	-	-
5569	CaLG7	CaSNP3192	49.63	scaffold01100	89713
5570	CaLG7	CaSNP4421	49.63	scaffold02798	33292
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5572	CaLG7	CaSNP2677	49.63	9200986	16875
5573	CaLG7	CaSNP4450	49.63	-	-
5574	CaLG7	CaSNP2324	49.63	scaffold00630	143859
5575	CaLG7	CaSNP3629	49.64	scaffold01801	57182
5576	CaLG7	CaSNP2611	49.64	scaffold01074	88168
5577	CaLG7	CaSNP2740	49.64	scaffold01425	69755
5578	CaLG7	CaSNP4432	49.65	scaffold04229	22733
5579	CaLG7	CaSNP3036	49.65	scaffold00961	110186
5580	CaLG7	CaSNP3943	49.65	9202616	7302
5581	CaLG7	CaSNP5137	49.66	scaffold02195	52025
5582	CaLG7	CaSNP3121	49.67	scaffold00655	132957
5583	CaLG7	CaSNP3188	49.67	scaffold01079	93532
5584	CaLG7	CaSNP4754	49.68	scaffold02972	29485
5585	CaLG7	CaSNP4724	49.68	9199771	17375
5586	CaLG7	CaSNP4873	49.68	9204526	28081
5587	CaLG7	CaSNP4667	49.71	scaffold01428	98732
5588	CaLG7	CaSNP2266	49.72	scaffold00218	253361
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5590	CaLG7	CaSNP4234	49.74	scaffold01051	125306
5591	CaLG7	CaSNP3448	49.77	scaffold01831	59661
5592	CaLG7	CaSNP4076	49.77	-	-

5593	CaLG7	CaSNP3387	49.78	scaffold00688	135637
5594	CaLG7	CaSNP3743	49.79	scaffold01750	54555
5595	CaLG7	CaSNP2081	49.79	scaffold00451	166254
5596	CaLG7	CaSNP2645	49.79	scaffold00360	211070
5597	CaLG7	CaSNP3344	49.79	scaffold02066	48021
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5600	CaLG7	CaSNP5147	49.8	scaffold04401	16460
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5603	CaLG7	CaSNP4613	49.87	9203472	21614
5604	CaLG7	CaSNP3384	49.88	-	-
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5606	CaLG7	CaSNP3643	49.91	-	-
5607	CaLG7	CaSNP2072	49.91	scaffold00570	143833
5608	CaLG7	CaSNP5060	49.91	9170741	8631
5609	CaLG7	CaSNP3277	49.91	scaffold00875	108045
5610	CaLG7	CaSNP2442	49.91	scaffold01122	82743
5611	CaLG7	CaSNP3558	49.91	-	-
5612	CaLG7	CaSNP3955	49.91	scaffold02960	42982
5613	CaLG7	CaSNP4174	49.91	-	-
5614	CaLG7	CaSNP4346	49.91	scaffold01018	102650
5615	CaLG7	CaSNP2607	49.92	scaffold01680	71303
5616	CaLG7	CaSNP3287	49.92	scaffold01323	94536
5617	CaLG7	CaSNP3008	49.94	scaffold01106	100260
5618	CaLG7	CaSNP2758	49.95	9208009	16752
5619	CaLG7	CaSNP3813	49.95	scaffold03600	28483
5620	CaLG7	CaSNP3058	49.96	scaffold02519	36539
5621	CaLG7	CaSNP3585	49.96	scaffold01586	75947

5622	CaLG7	CaSNP3586	49.96	scaffold01745	54696
5623	CaLG7	CaSNP3789	49.96	scaffold00550	160950
5624	CaLG7	CaSNP4683	49.96	scaffold00481	169945
5625	CaLG7	CaSNP4921	49.96	-	-
5626	CaLG7	CaSNP5075	49.96	scaffold01155	87990
5627	CaLG7	CaSNP3497	49.96	scaffold02251	49514
5628	CaLG7	CaSNP3634	49.97	scaffold01464	74007
5629	CaLG7	CaSNP2301	49.97	scaffold00267	214561
5630	CaLG7	CaSNP4607	49.99	scaffold00362	183165
5631	CaLG7	CaSNP5146	50.01	scaffold04210	17192
5632	CaLG7	CaSNP4893	50.01	9212802	23319
5633	CaLG7	CaSNP2892	50.03	scaffold01147	96963
5634	CaLG7	CaSNP3003	50.08	scaffold00991	93352
5635	CaLG7	CaSNP4486	50.24	scaffold01835	86945
5636	CaLG7	CaSNP2465	50.34	-	-
5637	CaLG7	CaSNP1949	50.5	scaffold00314	192029
5638	CaLG7	CaSNP3533	50.55	scaffold02782	63340
5639	CaLG7	CaSNP3016	50.58	contig60071	1231
5640	CaLG7	CaSNP4244	50.62	scaffold01291	77132
5641	CaLG7	CaSNP2368	50.96	scaffold03365	24706
5642	CaLG7	CaTSNP6938	51.02	-	-
5643	CaLG7	CaSNP4870	51.02	scaffold00930	93722
5644	CaLG7	CaTMS816	51.48	-	-
5645	CaLG7	CaSNP4135	51.48	scaffold00572	144676
5646	CaLG7	CaSNP3263	51.53	9166962	27561
5647	CaLG7	CaSNP2665	51.83	-	-
5648	CaLG7	CaGMS8	51.85	-	-
5649	CaLG7	CaSNP2238	51.89	-	-
5650	CaLG7	CaSNP4305	51.91	scaffold01590	93355

5651	CaLG7	CaSNP5070	51.92	scaffold00633	125093
5652	CaLG7	CaSNP5153	51.92	-	-
5653	CaLG7	CaSNP2089	51.96	scaffold00192	252495
5654	CaLG7	CaTSNP8582	52.06	-	-
5655	CaLG7	CaTSNP7598	52.13	scaffold06492	8371
5656	CaLG7	CaTSNP8459	52.15	-	-
5657	CaLG7	CaTSNP6896	52.16	scaffold02900	33018
5658	CaLG7	CaSNP5095	52.21	scaffold00913	116874
5659	CaLG7	CaTSNP7802	52.26	-	-
5660	CaLG7	CaTSNP6373	52.26	scaffold03982	19731
5661	CaLG7	CaTSNP6552	52.26	-	-
5662	CaLG7	CaTSNP7258	52.26	-	-
5663	CaLG7	CaTSNP7417	52.28	-	-
5664	CaLG7	CaTSNP7724	52.3	9204662	18975
5665	CaLG7	CaTSNP8158	52.3	-	-
5666	CaLG7	CaTSNP7102	52.31	-	-
5667	CaLG7	CaTSNP7395	52.31	scaffold01606	70059
5668	CaLG7	CaSNP4153	52.34	-	-
5669	CaLG7	CaTSNP6813	52.35	-	-
5670	CaLG7	CaTSNP7136	52.35	-	-
5671	CaLG7	CaSNP4849	52.43	scaffold01513	69771
5672	CaLG7	CaTSNP6282	52.44	-	-
5673	CaLG7	CaTSNP8896	52.44	-	-
5674	CaLG7	CaTSNP6251	52.46	scaffold00398	169372
5675	CaLG7	CaTSNP8079	52.5	-	-
5676	CaLG7	CaTSNP8599	52.5	-	-
5677	CaLG7	CaTSNP8190	52.51	scaffold01285	87310
5678	CaLG7	CaTSNP8060	52.54	-	-
5679	CaLG7	CaTSNP8500	52.6	scaffold01400	83069

5680	CaLG7	CaTSNP7297	52.6	-	-
5681	CaLG7	CaTSNP7531	52.6	-	-
5682	CaLG7	CaTSNP8607	52.66	-	-
5683	CaLG7	CaTSNP6390	52.66	-	-
5684	CaLG7	CaTSNP6252	52.67	scaffold01692	67577
5685	CaLG7	CaTSNP6882	52.67	-	-
5686	CaLG7	CaTSNP9149	52.69	-	-
5687	CaLG7	CaGMS44	52.69	-	-
5688	CaLG7	CaTSNP6083	52.73	scaffold02062	62051
5689	CaLG7	CaSNP2253	52.75	scaffold00128	321318
5690	CaLG7	CaTSNP7129	52.8	-	-
5691	CaLG7	CaTSNP7753	52.83	-	-
5692	CaLG7	CaTSNP6321	52.98	-	-
5693	CaLG7	CaTSNP7918	52.98	-	-
5694	CaLG7	CaTSNP6260	52.99	-	-
5695	CaLG7	CaSNP4090	53.08	-	-
5696	CaLG7	CaTSNP7863	53.14	scaffold01028	116582
5697	CaLG7	CaTSNP8137	53.14	-	-
5698	CaLG7	CaTSNP7486	53.15	-	-
5699	CaLG7	CaTSNP8790	53.15	-	-
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5701	CaLG7	CaSNP4028	54.66	scaffold01929	51258
5702	CaLG7	CaTSNP8428	55.01	9208937	15146
5703	CaLG7	CaTSNP6098	55.08	-	-
5704	CaLG7	CaTSNP6532	55.08	-	-
5705	CaLG7	CaTSNP9009	55.2	-	-
5706	CaLG7	CaTSNP6266	55.35	scaffold02449	38496
5707	CaLG7	CaTSNP8244	55.38	-	-
5708	CaLG7	CaTSNP6856	55.38	-	-

5709	CaLG7	CaSNP4796	55.68	scaffold01896	55098
5710	CaLG7	CaSNP3435	55.71	9204576	28633
5711	CaLG7	CaSNP2562	55.72	scaffold01653	73811
5712	CaLG7	CaTSNP7344	55.77	-	-
5713	CaLG7	CaSNP2365	55.86	scaffold00466	164081
5714	CaLG7	CaSNP2818	56.33	-	-
5715	CaLG7	CaSNP2179	56.54	9158798	88516
5716	CaLG7	CaTSNP7479	56.54	-	-
5717	CaLG7	CaTSNP7872	56.56	-	-
5718	CaLG7	CaSNP3593	56.57	-	-
5719	CaLG7	CaSNP3349	56.62	scaffold01804	71070
5720	CaLG7	CaTSNP8745	56.64	-	-
5721	CaLG7	CaTSNP8051	56.66	scaffold02783	32407
5722	CaLG7	CaTSNP6981	56.66	-	-
5723	CaLG7	PIP39	56.68	9205487	58823
5724	CaLG7	CaTSNP7068	56.73	-	-
5725	CaLG7	CaSNP2367	56.74	scaffold00475	149272
5726	CaLG7	CaSNP3664	56.82	-	-
5727	CaLG7	CaTSNP6757	56.83	scaffold01758	65513
5728	CaLG7	CaTSNP7016	56.84	-	-
5729	CaLG7	CaTSNP6286	56.85	-	-
5730	CaLG7	CaTSNP6444	56.87	-	-
5731	CaLG7	CaTSNP7788	56.87	-	-
5732	CaLG7	CaTSNP6076	56.89	-	-
5733	CaLG7	CaSNP4820	56.95	-	-
5734	CaLG7	NCPGR14	57.02	-	-
5735	CaLG7	CaSNP2265	57.02	scaffold00401	198681
5736	CaLG7	CaSNP3046	57.04	scaffold00050	477147
5737	CaLG7	CaTSNP6955	57.05	-	-

5738	CaLG7	CaTSNP7046	57.07	scaffold05218	11932
5739	CaLG7	CaTSNP8992	57.1	-	-
5740	CaLG7	CaSNP4070	57.26	-	-
5741	CaLG7	CaSNP2335	57.46	-	-
5742	CaLG7	CaTSNP8914	57.5	-	-
5743	CaLG7	CaSNP1925	57.56	-	-
5744	CaLG7	CaSNP3814	57.58	-	-
5745	CaLG7	CaSNP3260	57.63	-	-
5746	CaLG7	CaTMS888	58.26	-	-
5747	CaLG7	CaTSNP6587	58.45	-	-
5748	CaLG7	CaTSNP8216	59.02	9187252	71777
5749	CaLG7	CaSNP3247	59.18	-	-
5750	CaLG7	CaSNP2477	59.84	-	-
5751	CaLG7	CaSNP3010	60.33	-	-
5752	CaLG7	CaTSNP6200	60.48	-	-
5753	CaLG7	CaTSNP8780	60.5	-	-
5754	CaLG7	CaTSNP8174	60.7	-	-
5755	CaLG7	STMS6	61.54	-	-
5756	CaLG7	CaSNP4360	61.9	scaffold00632	183743
5757	CaLG7	H2B19	62.02	-	-
5758	CaLG7	CaSNP2216	62.71	-	-
5759	CaLG7	CaSNP278	63.05	scaffold00245	223106
5760	CaLG7	CaSNP48	63.16	-	-
5761	CaLG7	CaSNP169	63.26	scaffold01076	84470
5762	CaLG7	CaSNP4151	63.43	1267127	16270
5763	CaLG7	CaSNP508	63.45	-	-
5764	CaLG7	CaSNP2183	63.45	scaffold00300	203502
5765	CaLG7	CaSNP438	63.48	-	-
5766	CaLG7	CaSNP432	63.64	scaffold00222	232171

5767	CaLG7	PIP86	63.85	-	-
5768	CaLG7	CaSNP2054	63.86	9139832	47342
5769	CaLG7	NCPGR268	64.34	-	-
5770	CaLG7	CaTSNP7681	64.38	scaffold01628	60777
5771	CaLG7	CaSNP114	64.48	scaffold01352	71946
5772	CaLG7	CaSNP49	64.53	scaffold00056	447099
5773	CaLG7	CaSNP2208	64.62	scaffold03077	34070
5774	CaLG7	CaSNP1979	64.93	scaffold00556	138718
5775	CaLG7	CaSNP2474	64.93	-	-
5776	CaLG7	CaTSNP8536	65.15	scaffold05181	12092
5777	CaLG7	CaTSNP7044	65.26	-	-
5778	CaLG7	NCPGR41	65.37	scaffold00001	1562097
5779	CaLG7	CaGMS1145	65.38	-	-
5780	CaLG7	CaTSNP6400	65.39	-	-
5781	CaLG7	CaTSNP9135	65.39	-	-
5782	CaLG7	CaTSNP9018	65.47	scaffold00806	116696
5783	CaLG7	CaTSNP7738	65.56	-	-
5784	CaLG7	CaTSNP8984	65.62	-	-
5785	CaLG7	CaSNP5056	65.63	-	-
5786	CaLG7	CaTSNP7447	65.64	-	-
5787	CaLG7	CaSNP552	65.7	scaffold00434	165158
5788	CaLG7	CaTSNP6379	65.72	-	-
5789	CaLG7	CaSNP2801	65.73	-	-
5790	CaLG7	CaTSNP7032	65.81	-	-
5791	CaLG7	CaSNP559	65.93	-	-
5792	CaLG7	CaSNP724	65.97	scaffold00819	119382
5793	CaLG7	CaTSNP8072	65.99	-	-
5794	CaLG7	CaSNP322	66.04	-	-
5795	CaLG7	CaTSNP6488	66.05	-	-

5796	CaLG7	CaTSNP8576	66.06	scaffold13198	2885
5797	CaLG7	CaTSNP8682	66.06	-	-
5798	CaLG7	ESNP38	66.12	-	-
5799	CaLG7	CaTSNP6550	66.13	scaffold03293	25591
5800	CaLG7	CaTSNP9060	66.13	-	-
5801	CaLG7	CaTSNP7562	66.18	-	-
5802	CaLG7	ESNP54	66.21	-	-
5803	CaLG7	ESNP29	66.27	scaffold01480	71820
5804	CaLG7	CaSNP682	66.29	scaffold00015	687920
5805	CaLG7	MtEST235	66.3	-	-
5806	CaLG7	CaSNP907	66.38	-	-
5807	CaLG7	CaSNP627	66.42	-	-
5808	CaLG7	CaSNP109	66.48	-	-
5809	CaLG7	CaSNP600	66.52	-	-
5810	CaLG7	PIP23	66.54	-	-
5811	CaLG7	CaTSNP6366	66.55	-	-
5812	CaLG7	CaTSNP7369	66.55	-	-
5813	CaLG7	CaTSNP8615	66.6	9159958	9557
5814	CaLG7	CaSNP345	66.61	scaffold00673	121786
5815	CaLG7	CaSNP620	66.63	scaffold00260	207131
5816	CaLG7	CaSNP307	66.63	scaffold00491	148219
5817	CaLG7	CaSNP863	66.63	-	-
5818	CaLG7	CaSNP711	66.65	-	-
5819	CaLG7	CaSNP96	66.65	-	-
5820	CaLG7	ESNP51	66.65	scaffold01472	64514
5821	CaLG7	CaSNP862	66.69	-	-
5822	CaLG7	CaSNP257	66.73	-	-
5823	CaLG7	NCPGR98	66.78	-	-
5824	CaLG7	CaSNP221	66.79	-	-

5825	CaLG7	CaSNP2036	67.01	scaffold00172	272460
5826	CaLG7	CaTSNP6701	67.06	-	-
5827	CaLG7	ESNP43	67.54	scaffold00177	248231
5828	CaLG7	CaSNP181	67.73	-	-
5829	CaLG7	CaSNP3350	67.78	-	-
5830	CaLG7	CaSNP4460	67.94	scaffold00861	99747
5831	CaLG7	CaSNP141	67.97	-	-
5832	CaLG7	CaTSNP7839	67.97	-	-
5833	CaLG7	CaSNP219	67.97	9210959	72271
5834	CaLG7	ESNP7	67.97	-	-
5835	CaLG7	ESNP87	67.97	-	-
5836	CaLG7	CaSNP3137	68.05	-	-
5837	CaLG7	CaSNP194	68.07	-	-
5838	CaLG7	CaTMS910	68.1	-	-
5839	CaLG7	CaSNP610	68.1	scaffold00081	389694
5840	CaLG7	CaSNP545	68.14	-	-
5841	CaLG7	CaTSNP6174	68.14	-	-
5842	CaLG7	CaSNP268	68.19	9215096	39195
5843	CaLG7	CaSNP783	68.19	-	-
5844	CaLG7	CaSNP588	68.33	-	-
5845	CaLG7	CaSNP445	68.39	-	-
5846	CaLG7	CaTSNP7134	68.4	-	-
5847	CaLG7	CaSNP220	68.41	-	-
5848	CaLG7	CaSNP27	68.41	-	-
5849	CaLG7	CaSNP2787	68.44	9208103	43349
5850	CaLG7	CaSNP361	68.44	scaffold00835	120797
5851	CaLG7	CaSNP3469	68.48	-	-
5852	CaLG7	CaSNP39	68.53	scaffold00452	159196
5853	CaLG7	ESNP48	68.55	9214662	30022

5854	CaLG7	CaSNP2227	68.59	scaffold00581	129494
5855	CaLG7	CaSNP73	68.62	9207642	107103
5856	CaLG7	CaSNP4060	68.63	scaffold00515	152868
5857	CaLG7	CaSNP4379	68.67	-	-
5858	CaLG7	CaSNP662	68.69	-	-
5859	CaLG7	CaTSNP6935	68.9	-	-
5860	CaLG7	CaTSNP7326	68.93	-	-
5861	CaLG7	CaTSNP8997	68.96	-	-
5862	CaLG7	CaSNP2969	69.29	-	-
5863	CaLG7	CaSNP3165	69.35	-	-
5864	CaLG7	CaTSNP6976	69.38	-	-
5865	CaLG7	CaTSNP8348	69.47	9168355	42610
5866	CaLG7	CaSNP2114	69.64	-	-
5867	CaLG7	CaSNP401	69.68	9202509	42215
5868	CaLG7	CaTSNP9121	69.72	-	-
5869	CaLG7	CaSNP1939	69.74	-	-
5870	CaLG7	CaTSNP8036	69.79	-	-
5871	CaLG7	CaSNP556	69.82	scaffold00027	568460
5872	CaLG7	CaTSNP8942	69.89	-	-
5873	CaLG7	CaTSNP6151	70.21	scaffold04593	17004
5874	CaLG7	CaTSNP7615	70.23	9211145	27939
5875	CaLG7	TA180	70.23	-	-
5876	CaLG7	CaTSNP7123	70.25	scaffold06962	8954
5877	CaLG7	CaTSNP7861	70.27	-	-
5878	CaLG7	CaTSNP9081	70.29	-	-
5879	CaLG7	CaTSNP7343	70.3	-	-
5880	CaLG7	CaTSNP6029	70.3	-	-
5881	CaLG7	CaTSNP8132	70.3	-	-
5882	CaLG7	CaTSNP6411	70.32	9203274	89925

5883	CaLG7	CaTSNP8854	70.32	-	-
5884	CaLG7	CaTSNP8713	70.33	-	-
5885	CaLG7	CaTSNP8881	70.33	9152843	29549
5886	CaLG7	CaTSNP8912	70.33	-	-
5887	CaLG7	CaTSNP7253	70.33	-	-
5888	CaLG7	CaTSNP6592	70.34	-	-
5889	CaLG7	CaTSNP6681	70.34	-	-
5890	CaLG7	CaTSNP6149	70.35	-	-
5891	CaLG7	CaTSNP7714	70.35	-	-
5892	CaLG7	CaTSNP8166	70.36	-	-
5893	CaLG7	CaTSNP8962	70.39	-	-
5894	CaLG7	CaTSNP8899	70.42	-	-
5895	CaLG7	CaTSNP8343	70.44	-	-
5896	CaLG7	CaSNP420	70.47	-	-
5897	CaLG7	CaSNP159	70.52	-	-
5898	CaLG7	CaSNP505	70.7	scaffold00143	284742
5899	CaLG7	CaTSNP7288	70.75	-	-
5900	CaLG7	CaTSNP7621	70.75	-	-
5901	CaLG7	CaTSNP8670	70.75	-	-
5902	CaLG7	CaSNP661	70.76	-	-
5903	CaLG7	CaTSNP8695	70.76	-	-
5904	CaLG7	CaTMS880	70.96	-	-
5905	CaLG7	CaSNP717	71.03	-	-
5906	CaLG7	CaSNP117	71.03	-	-
5907	CaLG7	ESNP69	71.12	scaffold12182	3244
5908	CaLG7	CaTSNP6495	71.2	-	-
5909	CaLG7	CaTSNP7643	71.22	-	-
5910	CaLG7	CaTSNP8242	71.22	-	-
5911	CaLG7	CaSNP778	71.35	-	-

5912	CaLG7	CaSNP837	71.4	scaffold00282	214240
5913	CaLG7	CaSNP462	71.54	scaffold00767	110411
5914	CaLG7	CaTSNP7185	71.62	-	-
5915	CaLG7	CaSNP452	71.66	scaffold02706	33853
5916	CaLG7	CaSNP276	71.71	scaffold00226	222040
5917	CaLG7	CaSNP2449	71.71	scaffold01203	76323
5918	CaLG7	CaSNP208	71.79	scaffold00501	144749
5919	CaLG7	CaSNP2434	71.79	9207619	6957
5920	CaLG7	CaSNP224	71.88	scaffold00649	120090
5921	CaLG7	CaSNP2061	71.94	-	-
5922	CaLG7	ESNP21	71.94	scaffold00463	185295
5923	CaLG7	CaSNP167	71.96	scaffold02055	52501
5924	CaLG7	CaSNP2851	71.99	-	-
5925	CaLG7	CaSNP660	72.06	scaffold01275	73009
5926	CaLG7	CaSNP641	72.07	9109349	23512
5927	CaLG7	CaTSNP6649	72.13	-	-
5928	CaLG7	CaTSNP6123	72.15	-	-
5929	CaLG7	CaTSNP6339	72.17	-	-
5930	CaLG7	CaSNP288	72.19	-	-
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5932	CaLG7	CaTSNP6418	72.25	-	-
5933	CaLG7	CaTSNP6829	72.25	-	-
5934	CaLG7	CaGMS1239	72.25	-	-
5935	CaLG7	CaTSNP7219	72.31	-	-
5936	CaLG7	CaTSNP7511	72.31	-	-
5937	CaLG7	CaTSNP6475	72.33	-	-
5938	CaLG7	CaTSNP8027	72.33	-	-
5939	CaLG7	CaTSNP8493	72.33	-	-
5940	CaLG7	CaTSNP9084	72.33	-	-

5941	CaLG7	CaTSNP7589	72.49	-	-
5942	CaLG7	CaSNP5121	72.64	-	-
5943	CaLG7	CaSNP2408	72.65	-	-
5944	CaLG7	CaTSNP8418	72.73	-	-
5945	CaLG7	CaTSNP7760	72.8	-	-
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5947	CaLG7	CaTMS598	72.89	-	-
5948	CaLG7	CaSNP5051	72.98	-	-
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5950	CaLG7	CaTSNP8314	73.29	-	-
5951	CaLG7	CaTSNP8593	73.42	-	-
5952	CaLG7	CaTSNP9044	73.42	-	-
5953	CaLG7	CaSNP1966	73.77	-	-
5954	CaLG7	CaTSNP8562	73.78	9215831	98329
5955	CaLG7	CaTSNP8138	73.98	-	-
5956	CaLG7	CaTSNP6360	74.06	-	-
5957	CaLG7	CaTSNP9151	74.31	-	-
5958	CaLG7	CaTSNP7049	74.91	-	-
5959	CaLG7	CaTSNP7373	74.94	-	-
5960	CaLG7	CaTSNP8734	74.96	-	-
5961	CaLG7	CaTSNP8764	74.97	-	-
5962	CaLG7	CaTSNP8640	75.01	-	-
5963	CaLG7	CaTSNP8975	75.02	-	-
5964	CaLG7	CaTSNP6603	75.07	9202491	26534
5965	CaLG7	CaTSNP6397	75.75	-	-
5966	CaLG7	CaTSNP6455	75.79	-	-
5967	CaLG7	CaTSNP8313	75.79	-	-
5968	CaLG7	CaTSNP9047	76.11	-	-
5969	CaLG7	CaTSNP6851	76.15	-	-

5970	CaLG7	CaSNP2701	76.16	-	-
5971	CaLG7	CaTSNP8486	76.16	-	-
5972	CaLG7	CaTSNP8393	76.18	-	-
5973	CaLG7	CaTSNP6374	76.19	-	-
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5975	CaLG7	CaTSNP7432	76.2	-	-
5976	CaLG7	CaTSNP7438	76.2	-	-
5977	CaLG7	CaTSNP7930	76.2	-	-
5978	CaLG7	CaTSNP8254	76.2	-	-
5979	CaLG7	CaTSNP8273	76.2	-	-
5980	CaLG7	CaTSNP8757	76.22	-	-
5981	CaLG7	CaTSNP6821	76.27	-	-
5982	CaLG7	CaTSNP8124	76.29	-	-
5983	CaLG7	CaSNP2457	76.5	-	-
5984	CaLG7	CaSNP2561	76.55	scaffold01904	57098
5985	CaLG7	CaSNP3330	76.55	-	-
5986	CaLG7	CaTSNP7931	76.56	-	-
5987	CaLG7	CaTSNP6625	76.56	-	-
5988	CaLG7	CaSNP1944	76.58	-	-
5989	CaLG7	CaTSNP6121	76.59	-	-
5990	CaLG7	CaTSNP6276	76.59	-	-
5991	CaLG7	CaTSNP7452	76.59	-	-
5992	CaLG7	CaTSNP6419	76.62	scaffold01082	94638
5993	CaLG7	CaTSNP6886	76.62	scaffold06408	9463
5994	CaLG7	CaTSNP6782	76.64	-	-
5995	CaLG7	CaGMS1132	76.65	-	-
5996	CaLG7	CaTMS1043	76.65	-	-
5997	CaLG7	CaTMS713	76.65	-	-
5998	CaLG7	CaTMS922	76.65	-	-

5999	CaLG7	CaTSNP6945	76.72	-	-
6000	CaLG7	CaTSNP6338	76.74	-	-
6001	CaLG7	CaSNP2188	76.81	-	-
6002	CaLG7	CaTSNP7819	76.82	-	-
6003	CaLG7	CaTSNP6176	76.82	-	-
6004	CaLG7	CaTSNP6763	76.96	-	-
6005	CaLG7	CaTSNP8385	76.96	-	-
6006	CaLG7	CaTSNP8954	76.96	-	-
6007	CaLG7	CaTSNP8161	76.99	9209771	7523
6008	CaLG7	CaTSNP8771	76.99	-	-
6009	CaLG7	CaTSNP7829	77.01	9211313	7178
6010	CaLG7	CaTMS953	77.18	-	-
6011	CaLG7	NCPGR278	77.51	-	-
6012	CaLG7	CaTMS812	78.61	-	-
6013	CaLG7	CaTSNP6511	78.67	-	-
6014	CaLG7	CaTSNP6330	78.69	-	-
6015	CaLG7	CaTSNP7952	78.7	-	-
6016	CaLG7	CaTSNP6563	78.71	-	-
6017	CaLG7	CaTSNP7995	79.13	-	-
6018	CaLG7	CaSNP2010	79.24	-	-
6019	CaLG7	CaTSNP8368	79.39	scaffold00091	339011
6020	CaLG7	CaTMS1031	79.39	-	-
6021	CaLG7	CaTSNP6386	79.41	-	-
6022	CaLG7	CaTSNP8568	79.44	-	-
6023	CaLG7	CaTSNP9109	79.46	-	-
6024	CaLG7	CaSNP3676	80.33	-	-
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6026	CaLG7	CaTSNP7530	80.41	-	-
6027	CaLG7	CaTSNP8890	80.44	-	-

6028	CaLG7	CaTSNP7272	80.48	-	-
6029	CaLG7	CaTSNP8744	80.54	-	-
6030	CaLG7	CaTSNP6102	80.65	-	-
6031	CaLG7	CaTSNP8151	80.67	-	-
6032	CaLG7	CaTSNP6754	80.77	-	-
6033	CaLG7	CaTSNP8294	80.78	-	-
6034	CaLG7	CaTSNP7547	80.87	-	-
6035	CaLG7	CaTSNP8471	80.87	-	-
6036	CaLG7	CaTSNP8542	80.87	-	-
6037	CaLG7	CaSNP5155	80.88	scaffold00166	250208
6038	CaLG7	CaTSNP7124	80.9	-	-
6039	CaLG7	CaTSNP7178	80.93	scaffold00946	92071
6040	CaLG7	CaTSNP8070	80.95	scaffold00329	192466
6041	CaLG7	CaTSNP6939	80.96	-	-
6042	CaLG7	CaSNP2568	80.96	-	-
6043	CaLG7	CaSNP3674	81.03	scaffold01687	73586
6044	CaLG7	CEST44	81.03	-	-
6045	CaLG7	CaSNP3211	81.19	-	-
6046	CaLG7	CaSNP3519	81.19	-	-
6047	CaLG7	CaTSNP8462	81.46	scaffold00070	409626
6048	CaLG7	CaTSNP8852	81.46	-	-
6049	CaLG7	CaSNP1920	81.54	-	-
6050	CaLG7	CaTSNP6855	81.6	-	-
6051	CaLG7	CaTSNP6753	81.61	-	-
6052	CaLG7	CaTSNP7912	81.66	-	-
6053	CaLG7	CaTSNP6412	81.7	scaffold00023	594304
6054	CaLG7	CaTSNP8402	81.76	-	-
6055	CaLG7	CaTSNP6874	81.87	-	-
6056	CaLG7	CaTSNP8672	81.87	-	-

6057	CaLG7	CaTSNP7950	81.89	-	-
6058	CaLG7	CaTSNP6806	81.89	-	-
6059	CaLG7	CaTSNP9031	81.89	-	-
6060	CaLG7	CaTSNP7152	81.89	-	-
6061	CaLG7	CaTSNP8766	81.94	-	-
6062	CaLG7	CaSNP2008	81.96	scaffold00093	349627
6063	CaLG7	CaTSNP8177	81.98	9153460	48128
6064	CaLG7	CaTSNP6805	82	-	-
6065	CaLG7	CaTSNP7192	82.03	9193975	20324
6066	CaLG7	CaTSNP7408	82.03	scaffold00272	211817
6067	CaLG7	CaTSNP7849	82.03	-	-
6068	CaLG7	CaTSNP8789	82.03	-	-
6069	CaLG7	CaTSNP9096	82.03	-	-
6070	CaLG7	CaTSNP9003	82.03	-	-
6071	CaLG7	CaTMS1076	82.05	-	-
6072	CaLG7	CaTSNP9062	82.06	scaffold01964	59591
6073	CaLG7	CaTSNP6223	82.1	-	-
6074	CaLG7	CaTSNP6257	82.12	-	-
6075	CaLG7	CaTSNP8440	82.12	-	-
6076	CaLG7	CaTSNP7410	82.12	-	-
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6078	CaLG7	CaTSNP8305	82.14	9211120	50542
6079	CaLG7	CaTSNP9000	82.14	-	-
6080	CaLG7	CaTSNP6779	82.14	-	-
6081	CaLG7	CaTSNP7728	82.14	-	-
6082	CaLG7	CaTSNP7956	82.14	-	-
6083	CaLG7	CaTSNP6310	82.19	-	-
6084	CaLG7	CaTSNP6723	82.21	-	-
6085	CaLG7	CaTSNP7038	82.21	-	-

6086	CaLG7	CaSNP1982	82.51	-	-
6087	CaLG7	CaSNP3132	82.54	scaffold01056	86629
6088	CaLG7	CaGMS1293	82.77	-	-
6089	CaLG7	CaTMS769	82.89	-	-
6090	CaLG7	CaTMS900	82.89	-	-
6091	CaLG7	CaTMS742	82.96	-	-
6092	CaLG7	CaSNP2369	83.04	scaffold00427	169877
6093	CaLG7	CaSNP2413	83.04	-	-
6094	CaLG7	CaSNP1974	83.39	-	-
6095	CaLG7	CaTMS539	88.59	-	-
6096	CaLG7	PIP214	88.78	-	-
6097	CaLG7	CESSR53	90.35	-	-
6098	CaLG7	CaTMS841	90.92	-	-
6099	CaLG7	CaTMS537	93.59	-	-
6100	CaLG7	CaTMS857	96.55	-	-
6101	CaLG7	CaTMS765	98.09	-	-
6102	CaLG7	CaTMS755	98.92	-	-
6103	CaLG7	CaTMS694	98.94	-	-
6104	CaLG7	CaGMS1159	98.94	-	-
6105	CaLG7	CaGMS1262	98.98	-	-
6106	CaLG7	CaGMS1219	98.99	-	-
6107	CaLG7	CaTMS658	98.99	-	-
6108	CaLG7	CaGMS1140	99	-	-
6109	CaLG7	CaGMS1127	99	-	-
6110	CaLG7	CaGMS1141	99	-	-
6111	CaLG7	CaGMS1157	99	-	-
6112	CaLG7	CaGMS1162	99	-	-
6113	CaLG7	CaGMS1177	99	-	-
6114	CaLG7	CaGMS1208	99	-	-

6115	CaLG7	CaTMS1003	99	-	-
6116	CaLG7	CaTMS1026	99	-	-
6117	CaLG7	CaTMS1092	99	-	-
6118	CaLG7	CaTMS1104	99	-	-
6119	CaLG7	CaTMS1109	99	-	-
6120	CaLG7	CaTMS620	99	-	-
6121	CaLG7	CaTMS696	99	-	-
6122	CaLG7	CaTMS718	99	-	-
6123	CaLG7	CaTMS723	99	-	-
6124	CaLG7	CaTMS784	99	-	-
6125	CaLG7	CaTMS789	99	-	-
6126	CaLG7	CaTMS850	99	-	-
6127	CaLG7	CaTMS986	99	-	-
6128	CaLG7	CaTMS994	99	-	-
6129	CaLG7	CaTMS1081	99.01	-	-
6130	CaLG7	CaTMS988	99.01	-	-
6131	CaLG7	CaTMS1099	99.01	-	-
6132	CaLG7	CaTMS1115	99.01	-	-
6133	CaLG7	CaGMS1149	99.01	-	-
6134	CaLG7	CaGMS1152	99.01	-	-
6135	CaLG7	CaGMS1176	99.01	-	-
6136	CaLG7	CaGMS1207	99.01	-	-
6137	CaLG7	CaTMS1002	99.01	-	-
6138	CaLG7	CaTMS1029	99.01	-	-
6139	CaLG7	CaTMS1033	99.01	-	-
6140	CaLG7	CaTMS1096	99.01	-	-
6141	CaLG7	CaTMS1106	99.01	-	-
6142	CaLG7	CaTMS597	99.01	-	-
6143	CaLG7	CaTMS940	99.01	-	-

6144	CaLG7	CaGMS1142	99.01	-	-
6145	CaLG7	CaGMS1155	99.01	-	-
6146	CaLG7	CaTMS1064	99.02	-	-
6147	CaLG7	CaTMS1080	99.02	-	-
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6151	CaLG7	CaGMS1138	99.02	-	-
6152	CaLG7	CaGMS1184	99.02	-	-
6153	CaLG7	CaTMS534	99.02	-	-
6154	CaLG7	CaTMS737	99.03	-	-
6155	CaLG7	CaTMS822	99.03	-	-
6156	CaLG7	CaTMS863	99.14	-	-
6157	CaLG7	CaTMS860	99.32	-	-
6158	CaLG7	CaTMS979	99.32	-	-
6159	CaLG7	CaGMS1185	99.33	-	-
6160	CaLG7	CaTMS1102	99.33	-	-
6161	CaLG7	CaTMS833	99.33	-	-
6162	CaLG7	CaTMS1114	99.35	-	-
6163	CaLG7	CaTMS837	99.35	-	-
6164	CaLG7	CaTMS892	99.35	-	-
6165	CaLG7	CaGMS1250	99.36	-	-
6166	CaLG7	CaGMS1200	100.1	-	-
6167	CaLG7	CaGMS1277	100.1	-	-
6168	CaLG7	CaTMS623	100.1	-	-
6169	CaLG7	CaTMS748	100.1	-	-
6170	CaLG7	CaTMS975	100.1	-	-
6171	CaLG7	CaTMS934	100.1	-	-
6172	CaLG7	CaTMS809	100.1	-	-

6173	CaLG7	CaTMS829	100.1	-	-
6174	CaLG7	CaGMS1252	100.1	-	-
6175	CaLG7	CaTMS1023	100.1	-	-
6176	CaLG7	CaTMS1075	100.1	-	-
6177	CaLG7	CaTMS1091	100.1	-	-
6178	CaLG7	CaTMS585	100.1	-	-
6179	CaLG7	CaTMS593	100.1	-	-
6180	CaLG7	CaTMS647	100.1	-	-
6181	CaLG7	CaTMS719	100.1	-	-
6182	CaLG7	CaTMS779	100.1	-	-
6183	CaLG7	CaTMS510	100.1	-	-
6184	CaLG7	CaTMS514	100.1	-	-
6185	CaLG7	CaGMS1167	100.1	-	-
6186	CaLG7	CaTMS1071	100.1	-	-
6187	CaLG7	CaGMS1306	100.1	-	-
6188	CaLG7	CaGMS1309	101.5	-	-
6189	CaLG7	CaTMS882	101.5	-	-
6190	CaLG7	NCPGR34	101.7	scaffold00110	328263
6191	CaLG7	CaGMS35	101.7	-	-
6192	CaLG7	CaTMS1038	101.7	-	-
6193	CaLG7	CaGMS1266	102.1	-	-
6194	CaLG7	CaTMS630	102.2	-	-
6195	CaLG7	CaTMS1018	102.2	-	-
6196	CaLG7	CaTMS564	102.2	-	-
6197	CaLG7	CaTMS799	102.4	-	-
6198	CaLG7	CaTMS546	102.7	-	-
6199	CaLG7	CaTMS552	102.9	-	-
6200	CaLG7	CaTMS950	103.5	-	-
6201	CaLG7	CaTMS736	103.9	-	-

6202	CaLG7	CaTMS906	103.9	-	-
6203	CaLG7	CaTMS1105	103.9	-	-
6204	CaLG7	CaTMS740	103.9	-	-
6205	CaLG7	CaTMS641	104	-	-
6206	CaLG7	CaTMS1010	104.4	-	-
6207	CaLG7	CaGMS40	104.9	-	-
6208	CaLG7	CaTMS677	105.4	-	-
6209	CaLG7	CaTMS678	105.5	-	-
6210	CaLG7	CaTMS689	105.8	-	-
6211	CaLG7	CASTMS9	105.9	-	-
6212	CaLG7	CaTMS670	106.9	-	-
6213	CaLG7	CESSR50	109.8	scaffold00444	157686
6214	CaLG7	CaTMS700	110.8	-	-
6215	CaLG7	CaTMS697	120.5	-	-
6216	CaLG7	CaTMS1025	120.9	-	-
6217	CaLG7	CaTMS876	123.1	-	-
6218	CaLG7	CaTMS825	124	-	-
6219	CaLG8	H3G031	0	-	-
6220	CaLG8	CaTSNP7292	29.67	-	-
6221	CaLG8	GAA46	31.1	-	-
6222	CaLG8	CaGMS1258	32.23	-	-
6223	CaLG8	CaSNP4184	33.18	-	-
6224	CaLG8	CaTSNP7117	33.49	-	-
6225	CaLG8	CaTSNP8619	33.49	-	-
6226	CaLG8	CaSNP2719	33.62	scaffold01158	87335
6227	CaLG8	CaTSNP7240	33.63	-	-
6228	CaLG8	CaTSNP8009	33.64	-	-
6229	CaLG8	CaSNP2904	33.64	scaffold00826	116685
6230	CaLG8	CaTSNP8616	33.74	-	-

6231	CaLG8	CaTSNP8558	33.81	-	-
6232	CaLG8	CaTSNP6928	33.83	-	-
6233	CaLG8	CaTSNP8965	33.87	-	-
6234	CaLG8	CaSNP294	34.15	-	-
6235	CaLG8	CaSNP289	34.22	scaffold00148	270062
6236	CaLG8	CaTSNP8476	34.42	-	-
6237	CaLG8	CaSNP239	34.48	-	-
6238	CaLG8	CaTSNP6277	34.58	-	-
6239	CaLG8	CaTSNP8475	34.58	-	-
6240	CaLG8	CaTSNP7131	34.69	-	-
6241	CaLG8	CaSNP624	35.07	-	-
6242	CaLG8	NCPGR242	35.52	-	-
6243	CaLG8	CaSNP658	36.27	-	-
6244	CaLG8	CaSNP152	36.4	-	-
6245	CaLG8	CaSNP2900	38.13	-	-
6246	CaLG8	CaSNP2621	39.31	-	-
6247	CaLG8	CaSNP838	40.02	scaffold00368	180122
6248	CaLG8	CaTSNP6435	40.28	-	-
6249	CaLG8	CaTSNP6641	40.3	-	-
6250	CaLG8	CaTSNP6198	40.36	-	-
6251	CaLG8	CaTSNP7164	40.42	-	-
6252	CaLG8	CaTSNP7360	40.42	-	-
6253	CaLG8	CaTSNP9063	40.44	-	-
6254	CaLG8	CaTSNP7782	40.5	-	-
6255	CaLG8	CaTSNP9155	40.5	-	-
6256	CaLG8	CaTSNP7406	40.51	-	-
6257	CaLG8	CaTSNP8917	40.52	-	-
6258	CaLG8	CaTSNP7310	40.54	-	-
6259	CaLG8	CaTSNP6545	40.54	-	-

6260	CaLG8	CaTSNP6917	40.54	-	-
6261	CaLG8	CaTSNP7061	40.56	-	-
6262	CaLG8	CaTSNP8626	40.56	9198839	16319
6263	CaLG8	CaTSNP8300	40.57	9207579	60016
6264	CaLG8	CaTSNP6096	40.58	-	-
6265	CaLG8	CaTSNP7535	40.58	-	-
6266	CaLG8	CaTSNP7387	40.59	-	-
6267	CaLG8	CaTSNP8237	40.6	-	-
6268	CaLG8	CaTSNP7377	40.61	-	-
6269	CaLG8	CaTSNP7431	40.63	-	-
6270	CaLG8	CaTSNP8387	40.63	-	-
6271	CaLG8	CaTSNP7256	40.64	-	-
6272	CaLG8	CaTSNP6404	40.66	-	-
6273	CaLG8	CaTSNP7717	40.83	-	-
6274	CaLG8	CaTSNP7468	40.86	-	-
6275	CaLG8	CaTSNP7114	40.87	-	-
6276	CaLG8	CaTSNP6423	41.02	scaffold00567	131522
6277	CaLG8	CaTSNP8239	41.02	-	-
6278	CaLG8	CaTSNP7121	41.25	-	-
6279	CaLG8	CaTSNP7815	41.54	-	-
6280	CaLG8	CaTSNP8706	41.54	-	-
6281	CaLG8	CaTSNP8236	41.55	-	-
6282	CaLG8	CaTSNP6594	41.61	-	-
6283	CaLG8	CaTSNP9005	41.61	-	-
6284	CaLG8	CaTSNP6308	41.76	-	-
6285	CaLG8	CaTSNP6484	42.03	-	-
6286	CaLG8	CaTSNP6072	42.04	-	-
6287	CaLG8	CaTSNP6880	42.04	-	-
6288	CaLG8	CaTSNP7612	42.04	-	-

6289	CaLG8	CaTSNP7901	42.05	-	-
6290	CaLG8	CaTSNP8465	42.05	scaffold06862	7674
6291	CaLG8	CaTSNP9070	42.05	-	-
6292	CaLG8	CaTSNP9104	42.1	-	-
6293	CaLG8	CaTSNP9095	42.22	scaffold04058	18855
6294	CaLG8	CaTSNP6535	42.37	-	-
6295	CaLG8	CaTSNP8056	42.75	-	-
6296	CaLG8	CaTSNP7928	42.79	-	-
6297	CaLG8	CaTSNP9111	42.82	-	-
6298	CaLG8	CaTSNP6539	42.87	-	-
6299	CaLG8	CaTSNP8738	42.91	9184095	17867
6300	CaLG8	CaTSNP7378	42.91	-	-
6301	CaLG8	CaTSNP7677	42.92	-	-
6302	CaLG8	CaTSNP6007	42.94	-	-
6303	CaLG8	CaTSNP7323	42.94	-	-
6304	CaLG8	CaTSNP6988	42.96	9174326	15066
6305	CaLG8	CaTSNP6133	43.04	-	-
6306	CaLG8	CaTSNP7965	43.05	-	-
6307	CaLG8	CaTSNP7919	43.1	scaffold00682	126513
6308	CaLG8	CaTSNP8197	43.11	-	-
6309	CaLG8	CaTSNP7026	43.12	-	-
6310	CaLG8	CaTSNP6912	43.14	-	-
6311	CaLG8	CaSNP2321	43.57	-	-
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6314	CaLG8	CaSNP3872	45.14	-	-
6315	CaLG8	CaSNP2168	45.21	-	-
6316	CaLG8	CaSNP3584	45.23	-	-
6317	CaLG8	CaSNP2470	45.37	-	-

6318	CaLG8	CaSNP840	45.64	scaffold00249	230849
6319	CaLG8	CaSNP64	46.14	scaffold00041	485748
6320	CaLG8	CaSNP822	46.14	-	-
6321	CaLG8	CaSNP697	46.14	-	-
6322	CaLG8	CaSNP306	46.19	9206806	48282
6323	CaLG8	CaSNP805	46.24	-	-
6324	CaLG8	CaSNP354	46.27	scaffold00670	127104
6325	CaLG8	CaSNP333	46.29	scaffold00263	207362
6326	CaLG8	CaSNP154	46.36	scaffold00004	1136293
6327	CaLG8	CaSNP465	46.38	-	-
6328	CaLG8	CaSNP585	46.38	scaffold00310	186758
6329	CaLG8	CaSNP75	46.49	scaffold00057	432475
6330	CaLG8	CaSNP328	46.59	-	-
6331	CaLG8	CaSNP629	47.02	-	-
6332	CaLG8	TS45	47.49	-	-
6333	CaLG8	CaSNP394	47.63	-	-
6334	CaLG8	CaTSNP7451	47.89	-	-
6335	CaLG8	CaSNP2765	47.9	-	-
6336	CaLG8	CaTSNP7798	48.14	-	-
6337	CaLG8	CaSNP2682	48.15	-	-
6338	CaLG8	CaSNP2390	48.18	-	-
6339	CaLG8	CaSNP2935	48.19	-	-
6340	CaLG8	CaTSNP6207	48.35	-	-
6341	CaLG8	CaTSNP8966	48.35	-	-
6342	CaLG8	CaTSNP6350	48.36	-	-
6343	CaLG8	CaTSNP8484	48.36	-	-
6344	CaLG8	CaTSNP6980	48.4	-	-
6345	CaLG8	CaSNP104	48.52	scaffold00551	141412
6346	CaLG8	CaTSNP8926	48.72	-	-

6347	CaLG8	CaTSNP7341	48.73	-	-
6348	CaLG8	CaSNP2400	49.78	-	-
6349	CaLG8	CaTSNP6060	50.13	-	-
6350	CaLG8	CaTSNP7268	51.1	-	-
6351	CaLG8	CaSNP3068	52.18	-	-
6352	CaLG8	CaTSNP7554	52.93	-	-
6353	CaLG8	CaTSNP7138	52.93	-	-
6354	CaLG8	CESSR18	52.93	scaffold01174	83192
6355	CaLG8	CaTSNP8122	53.03	-	-
6356	CaLG8	CaSNP824	53.27	scaffold00928	102909
6357	CaLG8	CaSNP3104	53.45	scaffold01373	76665
6358	CaLG8	CaTSNP8606	53.5	-	-
6359	CaLG8	CaSNP3186	53.52	scaffold01997	50751
6360	CaLG8	CaTSNP7556	53.55	-	-
6361	CaLG8	CaTSNP8521	53.55	-	-
6362	CaLG8	CaTSNP9100	53.55	-	-
6363	CaLG8	CaTSNP6688	53.59	-	-
6364	CaLG8	CaTSNP6951	53.59	-	-
6365	CaLG8	CaTSNP8082	53.64	-	-
6366	CaLG8	CaSNP478	53.66	scaffold00107	313748
6367	CaLG8	ESNP6	53.66	-	-
6368	CaLG8	CaTMS959	53.96	-	-
6369	CaLG8	CaSNP190	54.13	-	-
6370	CaLG8	CaSNP606	54.19	scaffold00443	171028
6371	CaLG8	CaSNP196	54.64	scaffold00525	140860
6372	CaLG8	NCPGR158	55	-	-
6373	CaLG8	CaGMS1212	55.14	-	-
6374	CaLG8	CaSNP381	55.23	scaffold00764	110283
6375	CaLG8	CaSNP676	55.36	scaffold00290	203324

6376	CaLG8	CaSNP216	55.38	scaffold01353	71046
6377	CaLG8	ESNP62	55.52	scaffold01977	51331
6378	CaLG8	CaSNP443	55.56	-	-
6379	CaLG8	CaTMS805	57.74	-	-
6380	CaLG8	CaTMS672	58.02	-	-
6381	CaLG8	CaTMS978	58.08	-	-
6382	CaLG8	CaTMS1049	58.11	-	-
6383	CaLG8	CaSNP2322	58.16	scaffold00698	141042
6384	CaLG8	CaSNP5151	58.24	-	-
6385	CaLG8	CaSNP2070	58.57	-	-
6386	CaLG8	CaSNP3776	58.74	scaffold02527	37604
6387	CaLG8	CaSNP2073	58.75	-	-
6388	CaLG8	CaTMS524	58.87	-	-
6389	CaLG8	CaSNP2506	58.88	-	-
6390	CaLG8	CaSNP2914	58.88	9154932	22978
6391	CaLG8	CaTSNP8142	59.18	-	-
6392	CaLG8	CaTSNP9055	59.19	scaffold00489	153825
6393	CaLG8	CaTSNP7954	59.2	-	-
6394	CaLG8	CaTSNP7874	59.21	-	-
6395	CaLG8	CaTSNP6216	59.27	-	-
6396	CaLG8	CaTSNP8466	59.27	-	-
6397	CaLG8	CaSNP3711	59.28	scaffold02231	43099
6398	CaLG8	CaTSNP6059	59.29	-	-
6399	CaLG8	CaTSNP8231	59.3	scaffold01694	58140
6400	CaLG8	CaTSNP6533	59.32	-	-
6401	CaLG8	CaTSNP7523	59.32	9206348	21381
6402	CaLG8	CaTSNP8960	59.33	-	-
6403	CaLG8	CaTSNP8062	59.34	-	-
6404	CaLG8	CaTSNP8156	59.34	-	-

6405	CaLG8	CaTSNP7365	59.34	scaffold01778	53144
6406	CaLG8	CaTSNP7631	59.36	scaffold04841	13771
6407	CaLG8	CaTSNP7063	59.38	-	-
6408	CaLG8	TS12	59.46	-	-
6409	CaLG8	CaTSNP7927	59.6	-	-
6410	CaLG8	CaTSNP8307	59.64	scaffold00315	220467
6411	CaLG8	CaTSNP7610	59.65	scaffold03947	18931
6412	CaLG8	CaTSNP7946	59.68	-	-
6413	CaLG8	CaTSNP8883	59.68	-	-
6414	CaLG8	CaTSNP8083	59.69	-	-
6415	CaLG8	CaTSNP8390	59.73	-	-
6416	CaLG8	CaTSNP8915	59.73	-	-
6417	CaLG8	CaTSNP8969	59.73	-	-
6418	CaLG8	CaTSNP6099	59.74	-	-
6419	CaLG8	CaTSNP8726	59.76	-	-
6420	CaLG8	CaTSNP7716	59.77	-	-
6421	CaLG8	CaTSNP6201	59.77	-	-
6422	CaLG8	CaTSNP7730	59.77	-	-
6423	CaLG8	CaTSNP6180	59.84	-	-
6424	CaLG8	CaTSNP9026	59.86	-	-
6425	CaLG8	CaTSNP7150	59.9	-	-
6426	CaLG8	CaTSNP6838	59.94	-	-
6427	CaLG8	CaTSNP8993	59.94	-	-
6428	CaLG8	CaTSNP6353	60.07	-	-
6429	CaLG8	CaTSNP8306	60.08	-	-
6430	CaLG8	CaTSNP8128	60.11	9211715	6758
6431	CaLG8	CaSNP3950	60.16	-	-
6432	CaLG8	CaSNP2084	60.16	scaffold00137	303669
6433	CaLG8	CaSNP5039	60.16	scaffold00375	181242

6434	CaLG8	CaTSNP8553	60.17	-	-
6435	CaLG8	CaSNP3402	60.23	-	-
6436	CaLG8	CaTSNP9002	60.31	-	-
6437	CaLG8	CaSNP2131	60.39	-	-
6438	CaLG8	CaTSNP8919	60.39	-	-
6439	CaLG8	CaSNP3148	60.42	scaffold01280	85055
6440	CaLG8	CaTSNP6899	60.46	-	-
6441	CaLG8	CaSNP2100	60.48	-	-
6442	CaLG8	CaTSNP7739	60.84	-	-
6443	CaLG8	CaTSNP7273	61.41	scaffold00865	99885
6444	CaLG8	NCPGR118	64.43	-	-
6445	CaLG8	NCPGR241	64.99	scaffold00571	164776
6446	CaLG8	CaGMS11	65.42	-	-
6447	CaLG8	CaGMS1269	65.52	-	-
6448	CaLG8	CaTMS1088	65.52	-	-
6449	CaLG8	CaGMS1156	65.82	-	-
6450	CaLG8	CaSNP821	65.88	-	-
6451	CaLG8	CaTMS1052	66	-	-
6452	CaLG8	CaTMS612	66.01	-	-
6453	CaLG8	CaSNP2291	66.11	scaffold01446	74819
6454	CaLG8	NCPGR170	66.14	scaffold00241	219383
6455	CaLG8	CaGMS1144	66.15	-	-
6456	CaLG8	CaTMS604	66.19	-	-
6457	CaLG8	CaTMS1050	66.19	-	-
6458	CaLG8	CaGMS1173	66.21	-	-
6459	CaLG8	CaTMS1011	66.21	-	-
6460	CaLG8	CaTMS1044	66.21	-	-
6461	CaLG8	CaTMS674	66.21	-	-
6462	CaLG8	CaTMS853	66.21	-	-

6463	CaLG8	CaTMS717	66.24	-	-
6464	CaLG8	CaGMS1237	66.3	-	-
6465	CaLG8	CaTMS520	66.57	-	-
6466	CaLG8	CaSNP854	66.96	-	-
6467	CaLG8	CaSNP403	67.26	-	-
6468	CaLG8	CaTMS782	67.56	-	-
6469	CaLG8	CaTMS735	67.92	-	-
6470	CaLG8	NCPGR205	67.94	scaffold16958	2030
6471	CaLG8	CaTMS1048	67.96	-	-
6472	CaLG8	CaTSNP6248	68.73	-	-
6473	CaLG8	CaSNP2246	68.82	-	-
6474	CaLG8	CaSNP4446	69.02	-	-
6475	CaLG8	CaSNP5055	69.39	-	-
6476	CaLG8	CaSNP3080	69.45	scaffold00445	183282
6477	CaLG8	CaSNP4974	69.57	-	-
6478	CaLG8	CaTSNP6656	69.65	-	-
6479	CaLG8	CaSNP63	69.69	-	-
6480	CaLG8	CaTSNP6837	69.81	scaffold00139	303363
6481	CaLG8	CaSNP558	69.85	-	-
6482	CaLG8	CaSNP382	70.1	-	-
6483	CaLG8	CaSNP4473	70.25	-	-
6484	CaLG8	CaSNP2111	70.33	-	-
6485	CaLG8	CaSNP320	70.42	-	-
6486	CaLG8	CaSNP2001	70.88	scaffold00495	147008
6487	CaLG8	CaTMS1042	70.96	-	-
6488	CaLG8	CaTSNP7496	70.99	-	-
6489	CaLG8	CaTSNP8441	71.07	-	-
6490	CaLG8	CaTSNP7392	71.15	scaffold00136	332655
6491	CaLG8	CaSNP4303	71.23	-	-

6492	CaLG8	CaSNP4254	71.26	scaffold00963	97998
6493	CaLG8	CaTSNP6513	71.44	-	-
6494	CaLG8	CaSNP2912	71.54	-	-
6495	CaLG8	CaTSNP8592	71.89	-	-
6496	CaLG8	CaSNP1924	72.11	scaffold00162	268178
6497	CaLG8	CaTSNP7229	72.39	scaffold00848	106588
6498	CaLG8	CaGMS1	72.51	-	-
6499	CaLG8	CaTSNP6668	72.77	-	-
6500	CaLG8	CaTSNP8080	72.89	-	-
6501	CaLG8	CaTSNP8103	72.89	-	-
6502	CaLG8	CaTSNP6941	72.91	-	-
6503	CaLG8	CaTSNP7968	72.91	-	-
6504	CaLG8	CaTSNP8479	72.91	-	-
6505	CaLG8	CaTSNP7698	72.93	-	-
6506	CaLG8	CaTMS632	73.05	-	-
6507	CaLG8	CaTSNP6485	73.15	-	-
6508	CaLG8	CaTSNP6342	73.36	-	-
6509	CaLG8	CaTSNP7466	73.38	scaffold00244	275235
6510	CaLG8	CaTSNP6540	73.4	-	-
6511	CaLG8	CaTSNP7027	73.68	scaffold03781	22517
6512	CaLG8	CaTSNP7149	73.68	-	-
6513	CaLG8	CESSR181	73.91	-	-
6514	CaLG8	CaSNP3724	73.93	9132120	29903
6515	CaLG8	CaSNP1959	73.94	scaffold00186	257841
6516	CaLG8	CaSNP3791	74	scaffold01949	48738
6517	CaLG8	CaSNP4191	74.29	-	-
6518	CaLG8	CaSNP2242	74.31	-	-
6519	CaLG8	CaSNP3715	74.36	scaffold00554	144381
6520	CaLG8	CaSNP2311	75.1	scaffold00749	113803

6521	CaLG8	CaSNP3303	75.26	scaffold01374	73541
6522	CaLG8	CaSNP4693	75.28	scaffold01922	55954
6523	CaLG8	CaSNP2848	75.28	-	-
6524	CaLG8	CaSNP2909	75.28	scaffold01761	75282
6525	CaLG8	CaSNP3730	75.28	scaffold02767	33185
6526	CaLG8	CaSNP2646	75.3	scaffold01258	89485
6527	CaLG8	CaSNP4387	75.3	scaffold01110	111607
6528	CaLG8	CaSNP4078	75.31	scaffold02679	33862
6529	CaLG8	CaSNP4857	75.31	scaffold03013	52996
6530	CaLG8	CaSNP4201	75.31	scaffold00409	206618
6531	CaLG8	CaSNP3255	75.32	-	-
6532	CaLG8	CaSNP3871	75.32	scaffold02675	42738
6533	CaLG8	CaSNP4284	75.32	scaffold01169	125810
6534	CaLG8	CaSNP4705	75.32	-	-
6535	CaLG8	CaSNP4176	75.33	scaffold00822	135612
6536	CaLG8	CaSNP4982	75.33	scaffold02304	44846
6537	CaLG8	CaSNP4651	75.33	scaffold00979	115896
6538	CaLG8	CaSNP4226	75.35	-	-
6539	CaLG8	CaSNP2194	75.35	scaffold00850	111776
6540	CaLG8	CaSNP4035	75.35	scaffold02156	44967
6541	CaLG8	CaSNP4843	75.36	scaffold03117	27759
6542	CaLG8	CaSNP2916	75.39	-	-
6543	CaLG8	CaSNP4219	75.39	-	-
6544	CaLG8	CaSNP2927	75.4	scaffold00289	226831
6545	CaLG8	CaSNP3604	75.4	scaffold00302	219393
6546	CaLG8	CaSNP3930	75.41	scaffold02378	50502
6547	CaLG8	CaSNP4326	75.41	scaffold01873	51346
6548	CaLG8	CaSNP3706	75.44	scaffold02114	65688
6549	CaLG8	CaSNP2202	75.46	scaffold01389	76848

6550	CaLG8	CaSNP4595	75.49	scaffold02862	38819
6551	CaLG8	CaSNP3984	75.49	scaffold01172	94951
6552	CaLG8	CaSNP2535	75.51	scaffold01670	63213
6553	CaLG8	CaSNP3625	75.51	-	-
6554	CaLG8	CaSNP2907	75.55	scaffold01999	47105
6555	CaLG8	CaSNP3271	75.62	scaffold02068	59479
6556	CaLG8	CaSNP3155	75.62	scaffold01928	50485
6557	CaLG8	CaSNP3011	75.63	-	-
6558	CaLG8	CaSNP3359	75.63	-	-
6559	CaLG8	CaSNP3566	75.67	scaffold02228	41806
6560	CaLG8	CaSNP4777	75.7	scaffold00740	125013
6561	CaLG8	CaSNP4668	75.74	scaffold02692	46330
6562	CaLG8	CaSNP2106	75.77	-	-
6563	CaLG8	CaSNP3841	75.87	scaffold00805	110425
6564	CaLG8	CaTSNP6845	76.21	scaffold03092	33282
6565	CaLG8	CaSNP3352	76.22	scaffold01129	90719
6566	CaLG8	CaSNP2643	78.47	scaffold01654	63909
6567	CaLG8	TA125	78.76	-	-
6568	CaLG8	CaTMS1078	85.49	-	-
6569	CaLG8	CaSNP3758	88.07	scaffold03309	34664
6570	CaLG8	H3H022	88.42	-	-
6571	CaLG8	CaTMS974	90.25	-	-
6572	CaLG8	CaTMS760	90.4	-	-
6573	CaLG8	CaGMS17	90.52	-	-
6574	CaLG8	CaTMS818	90.52	-	-
6575	CaLG8	CaTMS603	91.27	-	-
6576	CaLG8	CaTMS609	91.27	-	-
6577	CaLG8	CESSR77	91.82	scaffold00636	132083
6578	CaLG8	CaTMS1037	92.58	-	-

6579	CaLG8	CaTMS1027	93.92	-	-
6580	CaLG8	CaSNP3479	94.76	scaffold01498	93317
6581	CaLG8	CaSNP4002	95	scaffold00879	101783
6582	CaLG8	CaSNP2630	95.29	-	-
6583	CaLG8	CaSNP3081	95.29	scaffold00447	190737
6584	CaLG8	CaSNP3898	95.29	scaffold04350	17332
6585	CaLG8	CaSNP4056	95.29	scaffold03710	23184
6586	CaLG8	CaSNP5128	95.29	scaffold03091	47220
6587	CaLG8	CaSNP3522	95.36	scaffold00540	151054
6588	CaLG8	CaSNP4669	95.36	scaffold00212	245341
6589	CaLG8	CaSNP4807	95.41	scaffold01691	71386
6590	CaLG8	CaSNP2424	95.5	scaffold00346	208431
6591	CaLG8	CaSNP2062	95.52	scaffold00808	121202
6592	CaLG8	CaSNP2595	95.52	scaffold00646	137874
6593	CaLG8	CaSNP4546	95.61	scaffold02402	44551
6594	CaLG8	CaSNP2430	95.93	-	-
6595	CaLG8	CaSNP4633	95.96	scaffold02458	56799
6596	CaLG8	CaGMS1235	96.26	-	-
6597	CaLG8	CaTSNP6769	96.53	9190626	66892
6598	CaLG8	CaTMS1067	97.92	-	-
6599	CaLG8	CaTMS663	101.1	-	-
6600	CaLG8	PIP6	101.1	-	-
6601	CaLG8	CaTMS640	101.8	-	-
6602	CaLG8	CaTMS1122	105.5	-	-
6603	CaLG8	NCPGR50	105.8	-	-
6604	CaLG8	CaTMS747	115.7	-	-
6605	CaLG8	CaTMS628	115.9	-	-
6606	CaLG8	CaTMS1066	116	-	-
6607	CaLG8	CaTMS956	116.1	-	-

6608	CaLG8	CaTMS1019	116.2	-	-
6609	CaLG8	CaTMS881	116.2	-	-
6610	CaLG8	CaTMS540	116.2	-	-
6611	CaLG8	CaTMS745	116.2	-	-
6612	CaLG8	CaTMS771	116.2	-	-
6613	CaLG8	CaGMS1281	116.2	-	-
6614	CaLG8	CaGMS1205	116.2	-	-
6615	CaLG8	CaTMS626	116.2	-	-
6616	CaLG8	CaGMS1178	116.2	-	-
6617	CaLG8	CaTMS570	116.3	-	-
6618	CaLG8	CaGMS1166	116.3	-	-
6619	CaLG8	CaTMS886	116.3	-	-
6620	CaLG8	CaTMS1073	116.3	-	-
6621	CaLG8	CaGMS1131	116.3	-	-
6622	CaLG8	CaGMS1130	116.3	-	-
6623	CaLG8	CaGMS1274	116.3	-	-
6624	CaLG8	CaTMS607	116.3	-	-
6625	CaLG8	CaGMS1267	116.3	-	-
6626	CaLG8	CaTMS808	116.3	-	-
6627	CaLG8	CaTMS1014	116.3	-	-
6628	CaLG8	CaGMS1256	116.3	-	-
6629	CaLG8	CaTMS1021	116.3	-	-
6630	CaLG8	CaTMS669	116.3	-	-
6631	CaLG8	CaGMS1308	116.3	-	-
6632	CaLG8	CaTMS849	116.3	-	-
6633	CaLG8	CaTMS587	116.3	-	-
6634	CaLG8	CaTMS1030	116.3	-	-
6635	CaLG8	CaTMS533	116.3	-	-
6636	CaLG8	CaTMS605	116.3	-	-

6637	CaLG8	CaGMS1319	116.3	-	-
6638	CaLG8	CaTMS943	116.3	-	-
6639	CaLG8	CaGMS1291	116.3	-	-
6640	CaLG8	CaTMS1028	116.3	-	-
6641	CaLG8	CaTMS1093	116.3	-	-
6642	CaLG8	CaTMS602	116.3	-	-
6643	CaLG8	CaTMS836	116.3	-	-
6644	CaLG8	CaTMS509	116.3	-	-
6645	CaLG8	CaTMS1072	116.3	-	-
6646	CaLG8	CaTMS778	116.3	-	-
6647	CaLG8	CaGMS1317	116.3	-	-
6648	CaLG8	CaGMS1270	116.3	-	-
6649	CaLG8	CaGMS1290	116.3	-	-
6650	CaLG8	CaGMS1304	116.3	-	-
6651	CaLG8	CaTMS1016	116.3	-	-
6652	CaLG8	CaTMS1077	116.3	-	-
6653	CaLG8	CaTMS1083	116.3	-	-
6654	CaLG8	CaTMS1103	116.3	-	-
6655	CaLG8	CaTMS578	116.3	-	-
6656	CaLG8	CaTMS610	116.3	-	-
6657	CaLG8	CaTMS611	116.3	-	-
6658	CaLG8	CaTMS659	116.3	-	-
6659	CaLG8	CaTMS777	116.3	-	-
6660	CaLG8	CaTMS897	116.3	-	-
6661	CaLG8	CaTMS907	116.3	-	-
6662	CaLG8	CaTMS948	116.3	-	-
6663	CaLG8	CaGMS27	116.3	-	-
6664	CaLG8	CaGMS1165	116.3	-	-
6665	CaLG8	CaTMS935	116.3	-	-

6666	CaLG8	CaGMS1220	116.3	-	-
6667	CaLG8	CaTMS1120	116.3	-	-
6668	CaLG8	CaTMS947	116.3	-	-
6669	CaLG8	CaGMS29	116.3	-	-
6670	CaLG8	CaGMS1171	116.3	-	-
6671	CaLG8	CaTMS1063	116.3	-	-
6672	CaLG8	CaTMS569	116.3	-	-
6673	CaLG8	CaTMS592	116.3	-	-
6674	CaLG8	CaTMS967	116.3	-	-
6675	CaLG8	CaGMS28	116.3	-	-
6676	CaLG8	CaTMS643	116.3	-	-
6677	CaLG8	CaTMS845	116.3	-	-
6678	CaLG8	CaTMS971	116.4	-	-
6679	CaLG8	CaGMS1129	116.9	-	-
6680	CaLG8	CaTMS923	116.9	-	-
6681	CaLG8	CaTMS814	117.2	-	-
6682	CaLG8	CaTMS793	117.3	-	-
6683	CaLG8	CaTMS645	117.6	-	-
6684	CaLG8	CaTMS826	118	-	-
6685	CaLG8	CaTMS662	118.1	-	-
6686	CaLG8	CaTMS665	118.1	-	-
6687	CaLG8	CaTMS989	118.1	-	-
6688	CaLG8	CaTMS1062	118.2	-	-
6689	CaLG8	PIP194	118.3	-	-
6690	CaLG8	CaTMS625	118.6	-	-
6691	CaLG8	CaTMS553	119.9	-	-
6692	CaLG8	TA196	121.2	-	-
6693	CaLG8	CaTMS653	121.3	-	-
6694	CaLG8	NCPGR137	122.4	-	-

6695	CaLG8	CaTMS646	124.7	-	-
6696	CaLG8	PIP70	139	-	-
6697	CaLG8	CaTMS681	139.2	-	-
6698	CaLG8	PIP126	163.6	-	-

Table S3: Details of synteny analysis of chickpea with *M. truncatula*, *G. max* and *P. vulgaris*

A

	Mt1	Mt2	Mt3	Mt4	Mt5	Mt6	Mt7	Mt8	Scaffold	Total
CaLG1	11	181	5	11	5	1	3	4	3	224
CaLG2	3	4	6	5	73	34	6	1	3	135
CaLG3	22	10	6	9	6	5	194	9	4	265
CaLG4	219	5	15	13	7	7	12	9	5	292
CaLG5	9	3	212	7	13	4	10	17	1	276
CaLG6	7	7	19	143	11	3	9	78	7	284
CaLG7	20	14	13	118	12	7	10	67	6	267
CaLG8	14	12	10	15	85	23	17	16	1	193
Total	305	236	286	321	212	84	261	201	30	1936

B

	Gm1	Gm2	Gm3	Gm4	Gm5	Gm6	Gm7	Gm8	Gm9	Gm10	Gm11	Gm12	Gm13
CaLG1	0	0	0	1	0	5	1	6	14	1	2	17	32
CaLG2	2	11	0	0	1	0	1	2	1	0	3	0	4
CaLG3	4	8	21	1	2	4	2	9	12	8	3	4	3
CaLG4	3	7	6	5	4	6	3	1	3	45	5	1	7
CaLG5	2	4	4	29	7	43	2	9	3	2	13	3	7
CaLG6	4	2	2	3	22	4	12	28	6	1	11	23	8
CaLG7	5	7	3	6	17	5	16	7	6	5	2	4	9
CaLG8	17	4	4	2	5	5	5	10	9	1	24	1	4
Total	37	43	40	47	58	72	42	72	54	63	63	53	74

C

	Pv1	Pv2	Pv3	Pv4	Pv5	Pv6	Pv7	Pv8	Pv9	Pv10	Pv11	Scaffold	Total
CaLG1	4	4	1	1	28	21	4	2	11	2	7	0	85
CaLG2	3	2	4	11	1	1	0	19	2	2	0	1	46
CaLG3	22	1	5	3	4	7	15	28	5	4	2	1	97
CaLG4	23	5	8	2	1	1	57	5	5	1	5	0	113
CaLG5	17	10	5	3	8	13	4	8	46	1	1	0	116
CaLG6	10	39	3	3	7	5	0	8	2	14	27	0	118
CaLG7	2	11	45	1	7	7	11	5	9	10	7	3	118
CaLG8	4	35	10	8	4	5	4	6	4	7	3	0	90
Total	85	107	81	32	60	60	95	81	84	41	52	5	783