

Table S1: SNPs genetically mapped on chromosome 1 used for seed weight targeted traditional QTL mapping in chickpea

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP1	<i>Ca-desi</i> -chr01	382862	(T/C)	TTATGGTTAACATCACTGTTCTATTTTTTAATTATCTT TCAGGAAAGTTGGAAAGAAGACGGCAGATGCCAT ATCACATGCATATAAATCTTGAGCTCTGGAATCAGT GCATCTTATATCTGCTATGCTGCTGGAAGTTCCTAAT ATGGCAGCCAATGTTTCATGATGCAAAGCGTAAGATC ATTAGTAAGAATTTCCG	CGTTGCTGGAGATCAGTGAGAAACAAACATTCAGTGG TCCTCCTGAAAATGTTCCGGGATCATGTTATGGCTGCCAC GAGGGCTCTTAGTAAAGGAGACTTCAACAAGGCTTTTG ACATTATTGCATCTCTTGATGTATGGAAATTTGTGAAAA ATCGAGATGCCGTGCTAGAAATGCTGAAGGACAAAAT CAAGGAGGAG	0
CaSNP2	<i>Ca-desi</i> -chr01	382898	(T/C)	CTTTGAGGAAAGTTGGAAAGAAGACGGCAGATGCC ATATCACATGCATATAAATCTTGAGCTCTGGAATCA GTGCATCTTATATCTGCTATGCTGCTGGAAGTTCCTA ATATGGCAGCCAATGTTTCATGATGCAAAGCGTAAGA TCATTAGTAAGAATTTCCGTCGCTTGCTGGAGATCAG TGAGAAACAAACATTCAC	GGTCTCCTGAAAATGTTCCGGGATCATGTTATGGCTGC CACGAGGGCTCTTAGTAAAGGAGACTTCAACAAGGCTT TTGACATTATTGCATCTCTTGATGTATGGAAATTTGTGA AAAATCGAGATGCCGTGCTAGAAATGCTGAAGGACAA AATCAAGGAGGAGGCACTTAGGACATACCTATTTACCT TCTCTTCATCG	1.1
CaSNP3	<i>Ca-desi</i> -chr01	527099	(A/G)	AATAAGAAATTTGGGTTATCATTAGCATTCTTTGTA ACTTCTTCATTCTCTTTCACTGTCAATTTCTACTTGT TAAAGTGCTGACACTGAAAGTTTCTATGATTTGTTCT CATTCTTGCTGTATGCTCTAAATTTGCAGGCTCGGTAT TTCTCCAGCAGCTCATCTCAGGAGTTAGCTACTGCC ATTGCATGGTAA	TTTAGTTTTTTtGTTTTTTtCAATGTGTTGGTGGTTTTTt GCCTGTCTTTGGGGTTATTTtCTATGTAATTTtCTTCT TTTGCAGCAAATCTGCCATCGAGACTTGAAGCTCGAGA ACACCTTATTGGATGGGAACCCTGCCCCGCGGCTCAA ATTTGCGATTTTGGTTATTCTAAGGTTCAAGTTATGGAGT AAT	1.4
CaSSR1	<i>Ca-desi</i> -chr01		(TA113)	TCTGCAAAAATATTACGTTAATACCA	TTGTGTGTAATGGATTGAGTATCTCTT	2.2
CaSNP4	<i>Ca-desi</i> -chr01	527113	(G/T)	GTTATCATTAGCATTCTTTGTAACCTTCTCATTCTCTT TTCACTGTCAATTTCTACTTGTAAAGTGCTGACACT GAAAGTTTCTATGATTTGTTTCTCATTCTTGCTGTATG CTCTAAATTTGCAGGCTCGGTATTTCTCCAGCAGCTC ATCTCAGGAGTTAGCTACTGCCATTGCATGGTAAATT TAGTTTTTTt	TTTTTTtCAATGTGTTGGTGGTTTTtGCCTGTCTTTGG GGTTATTTtCTATGTAATTTtCTCTTTTGCAGCAAATC TGCCATCGAGACTTGAAGCTCGAGAACACCTTATTGGA TGGAACCTGCCCCGCGGCTCAAATTTGCGATTTTG GTTATTCTAAGGTTCAAGTTATGGAGTAATTTCAATGCCA AATG	2.6
CaSNP5	<i>Ca-desi</i> -chr01	527176	(T/C)	AAAGTGCTGACACTGAAAGTTTCTATGATTTGTTTCT CATTCTTGCTGTATGCTCTAAATTTGCAGGCTCGGTAT TTCTCCAGCAGCTCATCTCAGGAGTTAGCTACTGCC ATTGCATGGTAAATTTAGTTTTTTtGTTTTTTtCAAT GTGTTGGTGGTTTTtGCCTGTCTTTGGGGTATTTTt CTATGTAATTT	tCTCTTTTGCAGCAAATCTGCCATCGAGACTTGAAGCT CGAAGACACCTTATTGGATGGGAACCCTGCCCCGCGGC TCAAAATTTGCGATTTTGGTTATTCTAAGGTTCAAGTTAT GGAGTAATTTCAATGCCAAATGATTTGAATAAATTTATT GAAGTCATACTTGACGTGTTTTtCTCTGACAACATTTTtG TTTTtCT	2.8
CaSNP6	<i>Ca-desi</i> -chr01	527181	(C/A)	GCTGACACTGAAAGTTTCTATGATTTGTTTCTCATTCT TGCTGTATGCTCTAAATTTGCAGGCTCGGTATTTCTC CAGCAGCTCATCTCAGGAGTTAGCTACTGCCATTGCA TGGTAAATTTAGTTTTTTtGTTTTTTtCAATGTGTTG GTGGTTTTtGCCTGTCTTTGGGGTATTTtCTATGT AATTTTTtCTT	TTTTGCAGCAAATCTGCCATCGAGACTTGAAGCTCGAG AACACCTTATTGGATGGGAACCCTGCCCCGCGGCTCAA AATTTGCGATTTTGGTTATTCTAAGGTTCAAGTTATGGAG TAATTTCAATGCCAAATGATTTGAATAAATTTATTGAAGT CATACTTGACGTGTTTTtCTCTGACAACATTTTtGTTTTtC TAGTCA	3.3

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP7	Ca-desi -chr01	538086	(G/T)	CAGCACAAGGTCTTCAAATTCCTCAGCTCAATTGGTT GCAGCATGCTAATGCTCACCACAATTTCTCGTCCCAG GCCAAGTTTTGACCTCAAATTTCTTTCTCTATTCCA ACTCACAACCTTCTCCAACGATGGGAGTGCCAGG TATGTTATGCCTTTAGTCTTTAAAACAACAATTTTT tCTCTCCCTTTT	TTTTGGTATGCAGCAATCTTAGTGCTATTTGTCTTATG ACATTGTATAGTGGGTAGTTTTTGTcACTAGAGAAAA GTTCTTAGACAATGCCATATCCTGATTTTGTAGCCTTTT GCATATCATTACCAGCCTATTTAGATATTATACTAGAA CCCTATTGATAGAGATATATAGTATATAACATAACAAG GATATAAG	3.7
CaSNP8	Ca-desi -chr01	836859	(G/A)	GGTTGGTTATATTATTGTTATGTTTTGCAATATTTTAA TATTTTAGGGTTTTAATGTTGTGTTGTGATATTGCAGC AACAGTGCTCGCTTTCTATGGAAATCGATTCTTCTTC AATCAAAGAAACCAACCCGAAGTCACTGCTGTGTG GAAAATTGGTCAACAGCTTTGGTTACGGAECTATTCC GGAGTACATGAGGC	ATCCGTGGGTTTGAATGGAGTCAGGAECTCAGGGATT TGTTGCTGCTTTCTCAGGCAAAGCATTTAAGATTTTCTG TTTTGTCTATTAGCAGAGCTGCGATTGTTCTGTACAAA CTCTTTGATCTTCACTATATTTAATGCATGATTCTATTCA CTTTATCTTCAATTTGAATATAATTTTAAAGCTCTAACTG GATGA	3.9
CaSSR2	Ca-desi -chr01		(TR43)	AGGACGAAACTATTCAAGGTAAGTAGA	AATTGAGATGGTATTAATGGATAACG	4.1
CaSNP10	Ca-desi -chr01	872247	(G/A)	AAGAGAAACATAACCACAACAACAGTTTTGATTAGTT CACCTTAAAAATCTCTCTTCTCATGATTAACCTATTC ACAAGCCAACCTGGTGTCAAAGCTGCTCAAGCATATT GCAAAAGCTTGAATGCAGATAAAGGATATCGATAA TCCATGGTGAACATATCTTTCCCACTTTGCCAAATTG CAGAATAATCTTATC	TGTTCCGGTGGAGCTGGTTGAGATGGTGTGGCGCGC CAGCCGGTGGTTGAGTTGCAGCAATCAGCTGAAAGTTT TTAACAGATGCAACTGTTACTCGTCCCCGAAATTAAG ACACCAGCATTGTAAGTTCATGCCATCTAGGAGTTT GTTTTtCAGAACCAAAGGTCTCGTCTTGCCATCATCGTC GTCATTAATA	4.5
CaSNP11	Ca-desi -chr01	872280	(C/T)	AGTTCACCTTAAAAATCTCTCTTCTCATGATTAACCT ATTCACAAGCCAACCTGGTGTCAAAGCTGCTCAAGCA TATTGCAAAAGCTTGAATGCAGATAAAGGATATCG ATAATCCATGGTGAACATATCTTTCCCACTTTGCCAA ATTGCAGAATAATCTTATCGTGTCCGGTGGAGCTGG TTGAGATGGTGTGG	GCGCCAGCCGGTGGTTGAGTTGCAGCAATCAGCTGAA AGTTTTTAACAGATGCAACTGTTACTCGTCCCCGAAAT TAAGACACCAGCATTGTAAGTTCATGCCATCTAGGA GGTTTTTTTTtCAGAACCAAAGGTCTCGTCTTGCCATCA TCGTGCTCATTAAATAATGGAACCCCGATTTCAGAAAA CCGTGAACTG	4.7
CaSSR3	Ca-desi -chr01		(TA8)	AAAATTTGCACCCACAAAATATG	CTGAAAA (TAA)44TTATGGCAGGGAAAC	5
CaSNP12	Ca-desi -chr01	1904458	(G/A)	GCTCTGTTTTGTGTTAGTGTACTTAGCAATTGCATTA TCTTGGTTGTGCTGATAAGTGATACTCAAGTTGGTGT TTTTCATGACAATTTTCAAGCAGATAAATGCGTATTG ATATAGTGAGTGTGAATCTGAGCTTAGCTGCACCTAA ATCATGTTTGACAACTCAAGACAATGAGGGAAGGA GAATCATCTAAGATAA	ATTTATATATATGTCTTTGAATTATTACTTTCATCAAG AACCAGATGCTGCAACCCGTTCTCGATTCTCTTGTAT TATACGGAAGGAAGACCCATGTTATTATTTAAGAAGA TTATATTCTTTGTATGCAACTGAAATTGAACAGCGTGC CAATTTGATTGACTCTTTCTAATTAATTATATGGTGA GATAT	5.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP13	<i>Ca-desi</i> -chr01	1904473	(C/T)	TAGTGTACTTAGCAATTGCATTATCTTGGTTGTGCTG ATAAGTGATACTCAAGTTGGTGTTCATGACAATT TTCAAGCAGATAAATGCGTATTGATATAGTGAGTGT GAATCTGAGCTTAGCTGCACCTAAATCATGTTTGACA AACTCAAGACAATGAGGGAAGGAGAATCATCTAAGA TAAGATTTATATATATGT	TTTGAATTATTACTTCATCAAGAACCAGATGCTGCA ACCCGTTCTCGATTCTCTTGTATTATACGGAAGGAAG ACCCATGTTATTATTTAAGAAGATTATATTCTTTGTATG CAACTTCAAATTGAACAGCGTGCCAATTTTGATTGACT CTTTCCTAATTAATTATATGGTGAGATATGAGAGTTGA GGAATC	5.9
CaSNP14	<i>Ca-desi</i> -chr01	1906298	(A/C)	AACACTCGCAGATACCAAATTTGTTTCTATAATCCTAA ATCGAGTCTCTTACGAAAATCTAGTTAATCTTGACACA AACAGGACTTTTGAAGATCATGTTAGATGCATTTATA TCGGGATAAAAATAATGTTTGCATGAAAGGTTAGCT CCTACTATAGGAAATTGGAGACCCTTTTCAGCTGCAG TATGGTGCTGTAGCTA	ATAGGATCCACACTTTTCCCTCTGCACCCCcTACATCCTC TCTATCTCTTTCTAATTTtCTTCGCTGATTGTCTCTAAAT TTTTTCATCATCTACTCTCTTCTCATTGTCTTATTtGCGCTA TAGATGATGCACAGCAGCAGAGGATTCAAGCTCATGG AAGCCTACCTGCTCAATTCTACGGTGAAAAATGTGTCTC AAG	6.2
CaSNP15	<i>Ca-desi</i> -chr01	1906300	(T/G)	CACTCGCAGATACCAAATTTGTTTCTATAATCCTAAAT CGAGTCTCTTACGAAAATCTAGTTAATCTTGACACAAA CAGGACTTTTGAAGATCATGTTAGATGCATTTATATC GGGATAAAAATAATGTTTGCATGAAAGGTTAGCTCC TACTATAGGAAATTGGAGACCCTTTTCAGCTGCAGTA TGGTGCTGTAGCTAAA	AGGATCCACACTTTTCCCTCTGCACCCCcTACATCCTCTC TATCTCTTTCTAATTTtCTTCGCTGATTGTCTCTAAATTT TTCATCATCTACTCTCTTCTCATTGTCTTATTtGCGCTATA GATGATGCACAGCAGCAGAGGATTCAAGCTCATGGAA GCCTACCTGCTCAATTCTACGGTGAAAAATGTGTCTCAA GAA	6.5
CaSNP16	<i>Ca-desi</i> -chr01	1906308	(A/G)	GATACCAAATTTGTTTCTATAATCCTAAATCGAGTCTC TTACGAAAATCTAGTTAATCTTGACACAAACAGGACTT TTGAAGATCATGTTAGATGCATTTATATCGGGATAAA AATAATGTTTGCATGAAAGGTTAGCTCCTACTATAGG AAATTGGAGACCCTTTTCAGCTGCAGTATGGTGCTGT AGCTAAATAGGATCC	CACTTTTCCCTCTGCACCCCcTACATCCTCTCTATCTCTTT CTTAAATTTtCTTCGCTGATTGTCTCTAAATTTTTTCATCATC TACTCTCTTCTCATTGTCTTATTtGCGCTATAGATGATGC ACAGCAGCAGAGGATTCAAGCTCATGGAAGCCTACCT GCTCAATTCTACGGTGAAAAATGTGTCTCAAGAACCCG TTAA	6.8
CaSNP17	<i>Ca-desi</i> -chr01	1906363	(G/A)	ATCTTGACAAACAGGACTTTTGAAGATCATGTTAGA TGCATTTATATCGGGATAAAAATAATGTTTGCATGAA AGGTTAGCTCCTACTATAGGAAATTGGAGACCCTTTT CAGCTGCAGTATGGTGCTGTAGCTAAATAGGATCCA CACTTTTCCCTCTGCACCCCcTACATCCTCTCTATCTCT TTCTTAATTTtCTTC	CTGATTGTCTCTAAATTTTTCATCATCTACTCTCTTCTCAT TGTCTTATTtGCGCTATAGATGATGCACAGCAGCAGAG GATTCAAGCTCATGGAAGCCTACCTGCTCAATTCTACG GTGAAAAATGTGTCTCAAGAACCCGTTAAAGTGTGTTGA TTCCGGTGAATTTTCGCAATTTCTCGTGCAATTTTtCtAg CAAACC	7.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP18	<i>Ca-desi</i> -chr01	2067290	(C/A)	TTTCGAGGAGTCAGGAAGAGGCCATGGGGAAGATACGCCGCGAGATTAGAGATCCGGGAAAGAAGAGCCGCGTTTGGCTCGGCACTTTCGACACGGCGGAAGAGGCTGCACGAGCCTACGACACCGCCGACGTGATTTCCGTGGTTCTAAGGCTAAAATAACTTCCCTTACCTTCCGAAAATATAAAGATCCAAAGT	CTAGCCAAAGCAGCACCGTTGAATCCTCCAGCCGCGACCGTGACGCCGCCGCGGATGAATCTTATCCGCTTGACCTTAATTATCCCCGCTATCAACGGCTCCGTTTCAATTTCTTTTTCAGCATCGTTTCCCGTCGATGCCGCCAGCTGACAAATTTTTtAtATGACACCGTCGTACGCGCCGGCATGGTGAATTCCC	8.4
CaSNP19	<i>Ca-desi</i> -chr01	2084506	(G/T)	TCCTAAATAAGACGCAGTTGAGGTGTGCTCAGCCACCTGAACTCCACCGGAGACAGAAAAAGCACCGTCATGACGCTAAGTCCAGCGACCGCAGCAACAGGTGGAGGCTGAGGAGTGTAAAATCCTTGAGAACTCCAGTCTGAAGAACTCAGTCACGACGAAGCTGCGGAAGGGACAGGGCGCCATCGGTGATCAGA	GAAGGAGCGTTGAGATCAAGACAAAGACCAGCGGCAACCGGCGCCGGAGGAAAGTtAGTTTTAGCCTTAGCTCCACGGAGGGAACGAGCGGCGCCGTCGTAAGCAAGAGCAGCTTCTCGGGAGTATCAAATGTTCCCAACCAACACGTGTCTTCTTCAAGGATCGCGAATCTCAGCTGCATAGCGTCCCCATGGTCCG	9.6
CaSNP20	<i>Ca-desi</i> -chr01	2213694	(C/T)	CTAATTTCTGTGAATGTAGGTCCTCTGAAGTTAGTATCTCGTGGAGTCGCCATTCTTCTCTTCAAACACTCAGCAGAGACTGCGGCTCGTTTCTCAGTTCAGTCACAGCACAGCAGCCAAAAGAGCCTCCTGGTCTTTGACAA TTGTTGTAAGACTAGCTTTGTGTTACCTGCATTGAGAAAACCTGGCTGCAA	GCGGCGGACCTGGGGAGTCAATATATGTGTACTGGTTATTATACAACAAAGGATTGCCACGTCTGTTGAATTGATCAAACCTGTAAGTATTATCGTGATAGAGGAAATTTTCA TGATTTTTCAGGACTCGGAGTATTCATATAAGTCGGATGCATATAATTGTTGGCCCTCTCGGGTTTGTGTTTTGTCTGTACCAATGC	9.8
CaSNP21	<i>Ca-desi</i> -chr01	2213700	(C/T)	TCCTGTGAATGTAGGTCCTCTGAAGTTAGTATCTCGCTGGAGTCGCCATTCTTCTCTTCAAACACTCCAGCAGACTGCGGCTCGTTTCTCAGTTCAGTCACAGCAGCAGCCAAAAGAGCCTCCTGGTCTTTGACAATTGTTGTAAAGACTAGCTTTGTGTTACCTGCATTGAGAAAACCTGGCTGCAACGGCGG	GGACCTGGGGAGTCAATATATGTGTACTGGTTATTATACAACAAAGGATTGCCACGTCTGTTGAATTGATCAAACCTGTAAGTATTATCGTGATAGAGGAAATTTTTCATGATTTTCAGGACTCGGAGTATTCATATAAGTCGGATGCATATAA TTGTTGGCCCTCTCGGGTTTGTGTTTTGTCTGTACCAATGCAGCCAT	10.5
CaSNP22	<i>Ca-desi</i> -chr01	2213762	(T/C)	AACACTCCAGCAGAGACTGCGGCTCGTTTCTCAGTTCAGTACAGCAGCAGCAGCCAAAAGAGCCTCCTGGTCTTTGACAATTGTTGTAAGACTAGCTTTGTGTTACCTGCATTGAGAAAACCTGGCTGCAACGGCGGACCTGGGAGTCAATATATGTGACTGGTTATTATACAACA AAGGATTGCCACGTCTGT	GAATTGATCAAACCTGTAAGTATTATCGTGATAGAGGA AATTTTTCATGATTTTTCAGGACTCGGAGTATTCATATAAGTCGGATGCATATAAATTGTTGGCCCTCTCGGGTTTGTGTTTGTCTGTACCAATGCAGCCATTCCGAAGAAGTCATTTGTTGTTGGAGGGTATCCACCGAAGAAAACCGGATATCTAGGATC	12.6

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP23	<i>Ca-desi</i> -chr01	2213817	(A/G)	AAAAGAGCCTCTGGTCTTTGACAATTGTTGTAAAGA CTAGCTTTGTGTTACCTGCATTGAGAAAACCTGGCT GCAACGGCGGCGGACCTGGGGAGTCAATATATGTGT ACTGGTTATTACAACAAAGGATTGCCACGTCTGTT GAATTGATCAAACCTGTAAGTATTATCGTGATAGAG GAAATTTTCATGATTTTC	GGACTCGGAGTATTCATATAAGTCGGATGCATATAATT GTTGGCCCTCTCGGGTTTGTGTTTTGTCTGTACCAATG CAGCCATTCCGAAGAAGTCATTTGTCCGTGTGGAGGGT ATCCACCGAAGAAAACCGGATATCTAGGATCATATCCA GGTGGTCTATATGTAGAACTCCAATCTGAGTAACCGCT TATTGGTGCC	13.6
CaSNP24	<i>Ca-desi</i> -chr01	2214019	(A/G)	GGACTCGGAGTATTCATATAAGTCGGATGCATATAAAT TGTTGGCCCTCTCGGGTTTGTGTTTTGTCTGTACCAA TGCAGCCATTCCGAAGAAGTCATTTGTCCGTGTGGA GGGTATCCACCGAAGAAAACCGGATATCTAGGATCA TATCCAGGTGGTCTATATGTAGAACTCCAATCTGAGT AACCGCTTATTGGTGCC	AGTTTTCTGAAATTTAGAAGCAGATAAACTAGTTGT GCTTGTGCATTAGTAAACCAAGCAGCATTATCAGGTAA TAATGGAGCAGAGGGTACTGGAAGAGAATATGTGGTA GCAGAAGAGGCATTGTAGTTTGAAGATTCATTCTTTGA GCTAATGACTGAATCTTCATTTTTATTGATGGATAGACT TGCCAAAGATG	15.6
CaSNP25	<i>Ca-desi</i> -chr01	2214038	(A/T)	AAGTCGGATGCATATAATTGTTGGCCCTCTCGGGTTT GTTGTTTTGTCTGTACCAATGCAGCCATTCCGAAGAA GTCATTTGTCCGTGTGGAGGGTATCCACCGAAGAAA ACCGGATATCTAGGATCATATCCAGGTGGTCTATATG TAGAACTCCAATCTGAGTAACCGCTTATTGGTGCCAA GTTTTCTGAAATTTAG	AGCAGATAAACTAGTTGTGCTTGTGCATTAGTAAACC AAGCAGCATTATCAGGTAATAATGGAGCAGAGGGTAC TGGAAGAGAATATGTGGTAGCAGAAGAGGCATTGTAG TTTGAAGATTCATTCTTTGAGCTAATGACTGAATCTTCA TTTTTATTGATGGATAGACTTGCCAAAGATGAAGAAGC TATTTCTTCAAT	18.9
CaSNP26	<i>Ca-desi</i> -chr01	2292933	(T/C)	TGATTAACACTGTCCGAAAGGTAGTAGTAATTTTTTT TtCTTTTTTTTTtCCACATGATTTTTTGTAAATCTCCTTAT ATAAATATTCCATGAATATTATTTTTCTTCTCCAAG ATCAACACTGCTTAGTTTTCAGACTCAAGCAGCATTAT TTAaaaAAAAAaaGAAATATATTGAATTTTCTGATCCC TGATTTCTTCT	CTAAAAACCCTAAGGTTCAATTAGAGAACCCTAGATTC ATTCATCCCCTGTTTGCAGCAAAAGGGGAAATTTATCTC GTGAACAATTTTTGATTAGTGTATATAATCGAATTT CAGTTTGGTTTTGTTTTCTCTCTGCTTCTGTAACCTGTGAT TTGATTTTGTATTATTTCTGTTTCTGTTCAAACACTCATG CATAG	20.6
CaSNP27	<i>Ca-desi</i> -chr01	2349214	(C/A)	CTTTTAGTAGAGACAGTATTGCACTCCATCATGAATG TTAGCTAAATTGACTTAGTATTCAATGTCAATAAAAT AATGGAAGGTTCTATCAAGCATTTTGTCTATAGTCTT GTTTACATCTCTAATTTTTGTTCTTTCAATTTTGCAGGTG TAAAACGTGTTGTAGATTTATGTGCTGCCCCAGGAAG CTGGAGTCAGGTA	TGGTGATGAAATTACTGATCTCGCATATGAGTTGTT CAGAGTCATACAGCCATTTATGATTCAACAACATATTTT ATATTTAACACAACCATTCTCTAGCACTTTAGCTTCTCA GAAATCAAAGCAGCTTCAACTTTTTTTACCAAACACAA TTTATGGCTGTGTCGAAAAGCGCTAACATAAGAAAACA TAGTGTC	22.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP28	<i>Ca-desi</i> -chr01	2349258	(G/A)	AATTGACTTAGTATTCAATGTCAATAAAAATAATGGAA GGTTCTATCAAGCATTGTTCTATAGTCTTGTGTTACA TCTCTAATTTTGTCTTTTCATTTTTGCAGGTGTAAC GTGTTGTAGATTTATGTGCTGCCCCAGGAAGCTGGA GTCAGGTACTGGTGATGAAATTATCACTGATCTCGCA TATGAGTTGTTTCCAGA	TCATACAGCCATTTATGATTCAACAACATATTTTCATATTT AACACAACCATTCTCTAGCACTTTAGCTTCTCAGAAATC AAAAGCAGCTTCAACTTTTTTACCAAACACAATTTATG GCTGTGTCGAAAAGCGCTAACATAAGAAAACATAGTGT CAATGAGGTTGGCTCTCCAAGTAGCATTAAATGTAATT GGCACAA	24.8
CaSNP29	<i>Ca-desi</i> -chr01	2349306	(C/T)	GCATTTTGTCTATAGTCTTGTGTTACATCTCTAATTTTG TTCTTTTCATTTTTGCAGGTGTAACCGTGTGTTAGATT TATGTGCTGCCCCAGGAAGCTGGAGTCAAGTACTGG TGATGAAATTATCACTGATCTCGCATATGAGTTGTTT AGAGTCATACAGCCATTTATGATTCAACAACATATTT CATATTTAACACAA	CATTCTCTAGCACTTTAGCTTCTCAGAAATCAAAGCAG CTTCAACTTTTTTACCAAACACAATTTATGGCTGTGTC GAAAAGCGCTAACATAAGAAAACATAGTGTCAATGAG GTTGGCTCTCCAAGTAGCATTAAATGTAATTGGCACAA AGGCCTTGGTTGAAAACATATTTCCATGATTTCTCGTTT TGCGGCAAA	24.9
CaSNP30	<i>Ca-desi</i> -chr01	2541722	(T/C)	ATTATGAAAAACAAaCCCAATATCAACTCCCACACT CACCTAAGTCTCCCCAACCCACCTTCATGGCTGCTA ACCCACCCTAAACCATCTTTCTTTAAGATTAGTTCTTC CACCATTAAGATCCATTGAACCCTAACCTCCAAAAG CATGACTAAGCTCCACCATCAAAGATCCACTGGATCT AACACCCAAAAGAGT	GAACCAACCTCATAGAATGCAGCTGCGAGAACCATAG AAGTTCAAGCAGTGGGATAACAACATCATCGCTCATT TGCAAGAACAACCTTGAGAGCATAAATGCGAGTGGTTC ATCATGAATGAAGTTCACTAGATGCAAGAGATTCAAAA CAAACCTTGCTTCTTGTGGGGAAGCACACGACTTGATC ATGGAGTTTCCAA	25.4
CaSNP31	<i>Ca-desi</i> -chr01	2553120	(A/C)	GTGCCAGCAAAGCTTTTTGGAAGAATTGGAGAGGAC TGTTGCACTGCTTGCTTTGAAGATGTTTCTAATTGTC CTGTTGGAGAGCTTCTCGACATATCACAGCGTCTAAA AACAGCAAGCGAGGTGAATGCAGCTATACTTACAAG CCAGAGTCATGAAAAAGGTTTGTGTTTTCTTCATAAA TCTGTTTGTCTATAT	TAACCTTGGTATGTGAATGGTTTTAAATACTGTTTTGCT ACTTAGTTTATCTAAGAAATGTGTGTAATTTTtATGCATT GCTGCATGTTGTGTGGTGATTAAGATATATTATTTATAT ATATATGTTTATTGAATAGCTTGTGTTGTGTAATAATTT GGGAACAAAATAGAAGCTTTGCCAGATTCACCCGATTA AACAAAC	26.8
CaSSR4	<i>Ca-desi</i> -chr01		(GAA40)	TTGACGCAGAGAACTCTCAA	ATTGGTGTGATGGGTGGATT	28.9
CaSNP32	<i>Ca-desi</i> -chr01	2553150	(C/T)	GAGGACTGTTGCACTGCTTGCTTTGAAGATGTTTCT AATTGTCCTGTTGGAGAGCTTCTCGACATATCACAGC GTCTAAAAACAGCAAGCGAGGTGAATGCAGCTATAC TTACAAGCCAGAGTCATGAAAAAGGTTTGTGTTTTCT TCATAAATCTGTTTGTCTATATATAACTTTGGTATG TGAATGGTTTTAAATA	TGTTTTGCTACTTAGTTTATCTAAGAAATGTGTGTAATT TTtATGCATTGCTGCATGTTGTGTGGTGATTAAGATATA TTATTTATATATATATGTTTATTGAATAGCTTGTGTGTT GTAAAATTTGGGAACAAAATAGAAGCTTTGCCAGATTC ACCCGATTAACAACCACTATCCCcTGTGTGCTTGTGA TGGTTT	30.5

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CaSNP33	<i>Ca-desi</i> -chr01	2553187	(A/G)	AATTGTCCTGTTGGAGAGCTTCTCGACATATCACAGC GTCTAAAAACAGCAAGCGAGGTGAATGCAGCTATAC TTACAAGCCAGAGTCATGAAAAAGTTTGTGTTTTCT TCATAAATCTGTTTGTCTATATATAACTTTGGTATG TGAATGGTTTTAAATACTGTTTGCTACTTAGTTTATC TAAGAAATGTGTGTA	TTTTtATGCATTGCTGCATGTTGTGTGGTGATTAAGATA TATTATTTATATATATATGTTTATTGAATAGCTTGTGTG TTGTAAAATTTGGGAACAAAATAGAAGCTTTGCCAGAT TCACCCGATTAACAACCACTATCCCcTGTGTGCCTTGT GATGGTTTATACCCGAAAAATCGATTAAACTTATAAC GCTTGT	32.5
CaSNP34	<i>Ca-desi</i> -chr01	2554326	(T/G)	AGCTCTAGAGTTTGCTAATAGTATTTTTGTTCTCCAC CAGACCCAAAACCTCCAAGCTTGTGAAGATGCTGTT ATGGGCCCAAAACCAGCTGGATGAGAAAGCTACTTA TCCTCGCATAAAAGATCTATCCACGGCTGCATTAGAA GATCCTGTTTAAATTCTTGTAAACATTTTAAATTCAGTT TGGAGAATTTTAGGT	CTAGATGAAGTGATTGTGGTCATTGGTGTAAAAATTG TGTATTACTTTGATCGAAAAGATGTTTGATAACATTGATG TTCGTTTTATCCTAGATAGCTGCTCCAGTGGTTTATACC GTTGTACAAAAAGATTGTCAATACAGTTATTATCCATTC ATTTTATCTTCAAGTTACCGATTATTAACATATTCTGTTG CAACT	33.6
CaSNP35	<i>Ca-desi</i> -chr01	2555171	(C/G)	AGAACATAAAAAaGGCTGCCTCAAGTCTTGATCCAAA TGACATAAACCCAGGTTGTGCTGTCAATGCTTTGAA CTCTTGAACAGGTGCATCTGCAATGAATTTCTTTGGC ATAGTATCTCTAAGATAGGAAGAGGAACATCCATCA TCAAAGTTAAGTGCATAGCTTGAAGGATCATATTGAA ATTTTCGCCTCTGTTG	CTCCATTGTTCAAAGCCCTTCTACTGCAGCTCTCATCCT CCAAAACAAGCTCTACAACGTTTCTTTCCATAACCATT CACCCATTGAAAGTTTTCCAACAAACCCATTTTGTCAA GAAAGAAAGTTACAACTTTGAGCAATTTCTCAATGG GTATTTATAATGAGGTTGAAAACCTTTCTGATAGTAAAC AAGTGAT	34.2
CaSNP36	<i>Ca-desi</i> -chr01	2573180	(A/C)	GATATGACAATTAATTTTTCCACCTTAGTTTGGTTTA ATATTAGTCTAAGTGTGTTGAATTTGTTCCAAGTCAC AATGTGGTTTAATATTTTCCATTGTTGGGCTTTTGTAT CATTTTACTATGTGATTAAGTTGGCTTTGGGCTGCTA AGCCGAGAACCAGAAGACAACCTGCTTTCACAATTTA ATTGAATGAGATT	TTTTCTTAGCATAGCATGTTGTCTCAAAGCTTATAAT TTTTGTGTCATGTTCAAATTGATCAATTTAAATGTATTTG AAAACACAACGAGAATAATGAGTTGAACTTTTTCTTATT ATTTGAGTATTTGTGAGAATGACTGAATGACATACAAG ACTGTGGGTAGCTGCTAATGCCTTACCACAAGCTAAAG GCAATGC	35.8
CaSNP37	<i>Ca-desi</i> -chr01	3953451	(C/T)	CCATCTAGGAGATTGAGGAATGAAGAACAGACCAAG CAGCAAGCAAATGCAAGGCACTAATCCTTCAAAGT TCAAAAAGCCAAACCAATCAACAGTTAGATATCTTT CTCCATAATCTGTTACCCTTCAATTCAAATTAATTGT TATATACTAACTACCAGCTAGTGCTAGTTCTCTCAA TTTATGACACTTCTA	TAAAAATGACATTGATGATCCAATGACAATCATAAGCT GCAATACAATTATAATCAATACTAATCCAATTAATGAT ACTTATTAGTCAAAAAaTAGAAAATTGTAIAAAAAAaT CTCACCTGATTTGTTGTTGCAAGTCTCCTCTAaGATTTT TTGGTGCTATTTCTGCTATATATACTGGAACCTGATCCA TTTTGCT	36.7

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP38	<i>Ca-desi</i> -chr01	3963327	(T/C)	TAAAGAAGTTTGATTCTAAAAAACTGTATAGATTTA CTATGCAATTTTCTGTGATGCTATTAATTGTTTTTAC GTCTTGTTTTATGTGCAACACTTGATGCCAGTGATGA TCAAAATCATTTGATAACTTCATGCAGCATAAAACGT TAGCTACTTAACCAAGATGGGATCTATGTTGTTAAT TTTGATAGTAGCGC	GAACAGCAGACTCTAAATCTGGGATAGCAGTTTAGCG GAAAGCGGGAAAGCAGCTATTCTAATATAATTTTATT GAAAATCCATTCTCTAAACCCAAAAAaTTGAAACTTCAT CTTCTCCAAAAGGCATGCAGTCTTTCTCAACATATGAA GGTGGCGGCAGAAAACAGCAGACTGTGGCCGAAAAGT TTTCTTCTAA	37.8
CaSNP39	<i>Ca-desi</i> -chr01	3995579	(C/T)	GATCTTTGACTTTCTATATTCATGACAGGTATATGTAA CATGGTTTAATTTTGCAAGGAGTTACCAAGTTTGATCC TTCTACCGGAAAACAGTTCAAGGCCAAGGCTCCCACC CAGTCATACACAACATACTTTGCTGAGGCTTTGATTG CAGAAGCAGAAGCTGACAAAAACATTGTTGGAATCC ATGCTGCAATGGGAGG	GGAAGTGGCATGAATCTCTTCTCCGCCGTTTCCCTGCA AGATGCTTTGACgTGGGGATAGCAGAACAGCATGCTGT TACATTTGCTGCAGGTCTGGCTTGGAAGGGCTTAAGC CTTTTTGCGCAATTTACTCATCCTTCATGCAAAGAGCTT ATGACCAGGTAAGATCTGATAACAACCTCCCAAGTAC ATATATCCT	39.4
CaSNP40	<i>Ca-desi</i> -chr01	3996356	(C/T)	TAACTTTAGTAAGTAATGCTTTAAGTATATATTTTCATG TCTATTCGAAGGTGGTGCATGATGTGGACTTGCAAAA GCTGCCTGTTAGATTTGCAATGGACAGAGCTGGATT AGTTGGAGCAGATGGTCCAACACACTCGGGTTCTTTC GATGTCACATTTATGGCATGTCTCCCTAACATGGTGG TGATGGCTCCTTCTGA	GAAGTGGAGCTTTTCCACATGGTTGCTACTGCAGCTGC CATTAAATGATCGACCTAGTTGTTTTCGATATCCAAGGG GAAATGGAATTGGTGTGCaCTACCAAAAAGGGAATAA AGGCACTCCTTTGAGGTGAGTTAGATTTATTATGGCC ATCTTTATACTTCACAATTATTTCTTATGAGGATGATTA GGAAGAAGTG	40.7
CaSNP41	<i>Ca-desi</i> -chr01	3996916	(C/T)	TGTATTGGTAATATTTCTCTTGAAAACAGTTTCGGCA AACAAGATTAACATTTGATTTTCGACATCTAACAGA TTGGAAAAGGTAGGATTTGATTGAAGGGGAAAAGA GTGGCCCTTTGGGCTATGGATCAGCTGTTCAAGACT GTCTAGCTGCAGCTTCTTGTGGAGCATCACGGCTT ACATGTAACAGTGGCCGA	GCACGTTTCTGCaGCCATTGGATCGTTCCCTCATCCGC AGCCTAGCCAAATCACATGAGGTTTTAATCACTGTGGA AGAAGGATCAATAGGAGGATTTGGGTCTCATGTGGTTC AGTTCATGGCCCTTGATGGTCTTCTTATGGAACCTTAA AGGTATATATGACCTTAAATATTTGCATGTCTTATAATA CTCCACCC	41.8
CaSNP42	<i>Ca-desi</i> -chr01	5004855	(A/C)	AAACACATTTACAGAATAGATGTAGTCACTACCTTAC CTCATTCTCTAGTTCTAACCTTCTCATCTCTCAACTAG TATTATACATTATATGATAATGCAATAATGTTAATA AGATTTGTGTAATATTGTGATTAATTCACACCACGGC GACAGTAACATAACACCTGTAATAGCTGAAGCTGCA AAGTTGTTCTATGTA	AGTATCTAAATTTAGTAAATTAATAATGTGGAGAGAA TATAATGTATTCTACACTATAATCTCACAGTGCATA GAATTAACCAGTGTGTGATGGTGGAAAAATTACCTGCA GCTCCAGATTCTAAATTATCACCCTGGCAGCATTCTTT TTtCTCCTTGACCTACACACCCAATAAAATTAGCCACAC AAAAAAT	42.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP43	<i>Ca-desi</i> -chr01	5004917	(C/A)	CATCTCTCAACTAGTATTATACATTATATGATAATGCA AATAATGTTAATAAGATTTGTGTAATATTGTGATTAA TTCACACCACGGCGACAGTAACATAACACCTGTAATA GCTGAAGCTGCAAAGTTGTTCTATGTAAAGTATCTAA ATTTAGTAAATTAATAATGTGGAGAGAATATAATGT ATTCTACACTATAAT	TCACAGTGCCTATAGAATTAACCAGTGTGTGATGGTG GAAAAATTACCTGCAGCTCCAGATTCTAAATTACACCA CTGGCAGCATTCTTTTTtCTCCTTGACCTACACACCCAAT AAAATTAGCCACACAAAACAATTAATACATCATAGAG CAAAATCACCACAGCATTTAACTGCATCTATGATCAAA GTCATACA	43.6
CaSNP44	<i>Ca-desi</i> -chr01	5022262	(G/T)	GCATCTGATAAAAATTGGAACGATATAGGATATAAAG TATGTTATGTTAGTAGCTAAAATTTATCTATTAAGA AGTGTTCTTTAATAAATGTGTTTTAAGTTGTTGGGT AAGATCATAACTACCATACCCATTTCTAATAATTGCT GTGGTCACTCAGTGCCAGCAAGCAACAACAACTTA ATAAGCAGCTGCAAAT	GTGACACCCCTCAATCATGATACTAGTATAAATACTATG CCTTATATATGGTGAATGATTATGTTCCAATATCAAAGT ATCAATTAAGTAGGGTTATAGAGATTAATGGTCCCAC GGTACCAGTTATTTCTTAACAACACAAACTTGAGGCT AGTATCCAAACAGACCCTACTCTACACAGAGTATACAT GCTAGAAA	44.8
CaSNP45	<i>Ca-desi</i> -chr01	5039614	(C/A)	AATTATATTTTTAGTGAGGTTGAATTTGTAGAATGAA TATCATTTTTCTTTGTAGAAAAAGTATTAGCAAAAA ATAGGGGTACGAATAGCAGCGTGAAAATATATTCGA TGGTGTGGGGTATTAAGTTTGAAGCCAAGCGAGA AGTGAAAAAAGGAGGCCAAAGGAGAAATGAAACA GAGAGAGAAAAGTGACAGACA	CAGCAGAAACAAAGAGTTAGTGTGTTGTTGAGGTTGT AGTGAGATTAGTGTACAGCAGCAACGATCCATAGAG AAGATTGAAAAGATGAACACAGATAtCACTGCTCCAC TAAACCAGAGTACCCCGTCGTTGATCGCAACCCTCCTTT CTCTACTGTCGTCGGCAACTTCAATACCCTCGATAACCT CCGTTTCGTC	46.9
CaSNP46	<i>Ca-desi</i> -chr01	5061066	(T/A)	ATTGATTAACAACTGTCTTACTTACAACTCTAGAT CCTTTTGTAACCTCTCTTACAGGTTCCGTGGAAGAA aGAAAAaGATACTAGTTGGCTACCACCAATAGCTT GCCAAATGCAGAACTTGAAGTGTATGGCTAACCT AATAATGAAAATTGTGCAGCATAGAAGGAACATTAT TCCAAGGAGCTGAATA	TGTACATACTAGGACAGCACAACGTCTTGTTCCATGTG CTTCAGTGTCTGTTGCAAACAACCTCAGCAGCTTTCCTT GCAAACGGGAACATGTTTGAATCCCTAAAGAAATTGTG TATAACTCATCAAGAACATCGCAAATTGTCTCAACCAAA ACTTTAATCAGCAGAAATTTATCCCTTGTCTTCTGCG GCGTAAGT	47.8
CaSNP47	<i>Ca-desi</i> -chr01	5061125	(G/C)	AGGTTCCGTGGAAGAAaGAAAAaGATACTAGTTGG CTACCACCAATAGCTTGCCAAATGCAGAACTTGGAA AGTGTATGGCTAACCTAATAATGAAAATTGTGCAGC ATAGAAGGAACATTATCCCAAGGAGCTGAATAATG TACATACTAGGACAGCACAACGTCTTGTTCATGTGC TTCAGTGTCTGTTGCAAA	AACTCAGCAGCTTTCCTTGCAAACGGGAACATGTTTGA ATCCCTAAAGAAATTGTGTATAACTCATCAAGAATC GCAAATTGTCTCAACCAAACTTTAATCAGCAGAAATTT ATATCCCTGTTTTCTGCGGCGTAAGTTACGCATTTATC AGTTTCTACTTAAGTCAGGAATATAGCCTGCATCCTTA ATATAGAG	48.9

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP48	<i>Ca-desi</i> -chr01	5498890	(A/G)	ACAACCTGATGGAAATTAGCTGAAAACACTTATGAA CAAGTCGTAAGAAGTTTCCATAAAATCTTCAAACAG GATAACAAGTGCTTAGGCCAATAGATAATCATAAGC CAATCCAAACAGACCCATATTTGGACGAATGAATGC TGCGAAAACTGTGTAAAGCTATTTGAGTATTTCAACT TTGAATGAGAAATAATGG	GGGAAAGAACAAAGTGAAACTAGAAAGGAAAAGGAAG AAATTAGTTGCTGCGAGTTTCAACCATTGTGTTGTGTCT TATTGTCTACTTTTTCAATTAGTAAAGGAATCACTTACT GTAATGAATCCTGGAATTTGTTGAATCGTATAATATTGT GCTAGTGAGAGTGTGCATTTCTGGATGAATGTACCATT TTCAATTTTG	50.5
CaSNP49	<i>Ca-desi</i> -chr01	5511162	(T/G)	TATAAAGGATAAACAAGAAAAaTTAACAGAAATTAC TGTGTTTTTCAATTGATTTTGAAGATTTTACTAC ATTTTCTGAAGCCAaaCTAGCTGCTTATTTGACTTCA CCACCTGCTTGTAGCTGGTAGAAGTGCTGTATTTT ATAACCGCTTGTTTCAACTGTGCATTTCTAGTTGCTT GTTTTGACTTACA	TTTTTAGTTTGCATATATCTTAAAGTTCTCCGTGCTGCATC TGTTCTTATATATGTGATTTTCTTTCTGACCGCTATTGG CTTAATTATTAGTCACTTTCTACCCCTATTTAAACCCTAG AGGCAAATTTCTGAAGCTCTCAATTCTTGTGTTTCTTA ATCTCTAATTAAGTTCTCATATTGGTGTATTGATTTTGT T	51.8
CaSNP50	<i>Ca-desi</i> -chr01	5537208	(C/T)	AGCAGAGTTAGAACAAGTGAAGAAAGAACAAGAGG AACTAAAGGAGAAAAGAACAAGCAGCAGAAGCTCTA GCTGTTAACCTCACGGATGAACACAAAGTAGCAAA AAAAaTGAAGATTCTTGTATAACAAGAATCAAATG AGAGTTATTGTCAAGACATAGACTTGAAAATCAAGC AGCTATCGTTGAGAAAAGAAAA	GCGAAAAAaGAAGAAGAAGAGATGAGAATAAAAGCTC AGGAACTGAAACAAGAAGCTGACAAATCAAGAGTTTT GTCTGAAGAAATAGAAGGGAACTAGAGCTTTTACTG AAACAAGCTGAAGAAGCAAAAGCAGCTGAAAAAaGGG CTGTTGAGGAGATGAAGTTGTTGTCTGATAACACACAA GGTAGAGTCTCAGTT	52.6
CaSSR5	<i>Ca-desi</i> -chr01		(GA11)	GTTGAGCAACAAAGCCACAA	TTCTTGCTGGTTGTGTGAGC	53.8
CaSNP51	<i>Ca-desi</i> -chr01	5537508	(C/T)	AGAGCTTTTACTGAAACAAGCTGAAGAAGCAAAAGC AGCTGAAAAAaGGGCTGTTGAGGAGATGAAGTTGTT GTCTGATAACACACAAGGTAGAGTCTCAGTTTCAGAT CCAAGTGTAAGATCATATTGACAGTTGATGAATTTG CTGACTAAGTGGTAAAATCAAGGAATCTGAGGATT TGATTGAGAGGACGGAAAC	GCTGCAATGGCTCAAGTGAAGCAATCAACACAAGAA GAATTGAAGTGGAGAAAAAAGTGAAGCTAATCTTAA AGCAATCGAAGAAaTAAAGGCGGCAACAGATATGGCT TTGAGGAATGCAGAGATGGCAGATTCGGCGAAAGTAG CAGTTGAAGGCGAATTAAGAGGCGGCGCAAGAAGA ACAAAAAGGTGTATCT	55.4
CaSNP52	<i>Ca-desi</i> -chr01	5568121	(A/C)	GGCAATAAAAAGACATCCTGGATTTTACGTATGCAA AGGGTTCCATACCTGTTAGATGAAATTTGAGATATCA ACATATGAATCAACTAAAAGAAAGTAATTACATAATT GTGGACTGAATCTTAAAAAATGTTTTtGTTAATCA GAATTTAAGAGGATGCTGCCATGAACAAATATATGA TTTTGGTGATTCGTAT	AACCTATTTTGTAGTGAAAAATTGAAAAAaCTATCTATT CACCTACAGCATGCTGCTTACTAAGTTAATCACTTTAAG AAAACCTATTTTCTCGGGTTCAATTAAGTGCAGAAAA TCTGCTTAAATGCATTATTAATTAATATTCTGAAAAC AGGTGATTTGTTCACTATAACATTTTAGAGAAGCTTTAA AACTTC	56.7

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP53	<i>Ca-desi</i> -chr01	5613829	(C/A)	TGCACAAAATCTCAGTATATTA AAAAGTGAGCAATT TTTTAAAGAGTAAAATAGTACTAAATTTTAATTGTTG ATGAAAAAaTTAATGGTTCATACATACTGTAACACAT TTATATCTTGTTATGTATCTGCATATAATATCAAAGTT GATTTATGTAGCAGCAATAATTGAGATTACTTATTTT ACCTTTAAAGTGAAT	AGTGAATTCTATTA ACTGTAAAAGGTTCACTTTTAATCA AACATCACAAAAGAAGTTACACTGTGCGGCACAGCTGCAA GTGCAGGGTTTATTGTAGCATATGTATCATAAAGACAT TGATATAAGCATTGCATTTTCCCTTTATCAGTTTCAGGG TTTACCAAACAATATTTATAACGCGACCTTATATTTAC CACACATG	58.4
CaSNP54	<i>Ca-desi</i> -chr01	5644131	(G/C)	GTGTTTTTGCACACTCATTGTTATCATTAAATTTATAATAC AACTCAAGATTTGATTAAGCTCAAAGTAACTGTTATA TCATTTTTCTGTGAAGGCTGTCGCTGCTGCACGTTTCA ATGGAGGCCGATGATAAGATGTGGCAAAGTATGTTG TGAGGAAGGATGTTGCTAACTTAAGCATTACAAGGT TGAAGAAGACCCCTTA	AAGTTCTATATATGTTTCTCTTCCAAAAGAAACATAAAAA TACTATGCTGCTAAATAATAATTATGCAGGAAGCCTGA TAAATAGGTTCTTTTGCATAAAAAGTTTGTAGTGTATTG ATAACTTGGTATAATTGTACTTTTAAATGATATGTCCA TTCCCAAGAGAGATTTCAACACAAAAACCCTTGAAGA CTATGAAG	59.5
CaSNP55	<i>Ca-desi</i> -chr01	5676601	(T/C)	AAAATGACCTAATTGTTCTGGTCCAATGTATATTATT TATTAATAATCATAGAAAGTCAAATTTAAGAAAC CTGGGAaTAGTTTTGGATAGCTCTGTTGAAACCACTG TGATAAGATTGTACAACCTTCAACCAACTTCTCGAT AAGATCACTTTGCTCCTTCAAAAATTGGGCAGCCCCA TCACGGTCTTTTGA	GTCAAAATATGAACAACATGAGGTAACGAATCAAAC GAGCAGCAATCCAAATCTCATCTATCCTAGAGATTTCTT CTCTCAGATACTGCATTCAAATGTAGAACAAAGACTCA AATTATCACGAATAACTAAACGAGTATTCAGTGCAACG CATGAAAAAGTACAATATAAATGCAATTCCGTCCATCCT ATAAGTTTGC	60.2
CaSNP56	<i>Ca-desi</i> -chr01	5753424	(G/A)	GGAACCTGACATACATAATCACAAAACGTTCAATAAA ATATTTGAGAAATAGTAATGAATTTTTTtCtAGAACA TGTGTTTTTtAGTACTTACAATCCCTAACTTTTGTA GATTGTTGATGTTTTTAGGCAAAGGTCCACCTAAAAA aTTGTGATCCAAGCGCTGCAGCCGCAGAATTATACT TCAAGACCAAAGC	AAACAAGAAATTTGTATTATCAATTTATATGAGTTTTGG ACACTCACACTACTTCAAGGTGCTGGACAAGTCCAAGT GTTGATGGAATGCTGCCAGTAAATTGGTTACTTTCAA AAGCTGCAAAAAaGTAAaTGAAATTCATGATGAAAA AAaTTCTACTCAAATTTGTTTAAATGTAACAAATTC TGATGAAA	61.3
CaSNP57	<i>Ca-desi</i> -chr01	5753484	(T/G)	TTTTTTtCtAGAACATGTGTTTTTTtAGTACTTACAATTC CCTAACTTTTGTAAGATTGTTGATGTTTTTAGGCAAA GGTCCACCTAAAAAaTTGTGATCCAAGCGCTGCAGC CGCAGAATTATACTTCAAGACCAAAGCGAAACAAGA AATTTGTATTATCAATTTATATGAGTTTTGGACTCA CACTACTTCAAGG	GCTGGACAAGTCCAAGTGTGATGGAATGCTGCCAGTA AATTGGTTACTTTCAAAAAGGCTGCAAAAAaGTAAaTG TAAATTCATGATGAAAAAAaTTCTACTCAAATTTGTTTA ATAATGTAACAAATTCCTGATGAAAAAAaTTGGAATG AATCTTACACATGTATCAAAGACATTTGAGAGCTAAAA AGTTGAGGTG	62.5
CaSNP58	<i>Ca-desi</i> -chr01	5776369	(T/C)	ACTAATTGTGTAAGTTTGATTTTTGATGAAAATGGG TCTTTTTATTTGTTATCTTAATTTGATTTATGTTTGTGG GTTTATGCAGCTGGGAACTTCAAAGCATAACAAT GTTTCTGGAGGGGGACCTCAGGTATGCAAGATGGA AAGGGTGATGGTGTCTGCTGCAATCAAGGATCTG GTTGGTGTTATTATGA	GCTGGTGATGCcATCAAGTTTAAATTTtCCTGCTGCTTTTt CCATCACCATGTTGAGTTGGAGTGTCAATTGAGTATAGT GGTAAGTATGAAGCTACAGGGGAGCTTGATCATGTCA AGGATATTATAAATGGGGTACTGATTATTTTCTCAAGA CATTCAATAGTACAGCTGATACCATTACCACCATTGCTG CACAGGTA	63.8

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP59	<i>Ca-desi</i> -chr01	5807642	(G/A)	TGAGCACAGCTGAAGCAGCATGAACCTCTACACGAA GGTTCTGAAAATCATCCATCGCAGCAGCTAGGGCTG GCAACAAACACCTCCTGATGATATTGAACTTGCAAAT CTGGACCCAAATCACTAGACAGTTGCCAATTGCATT AATAGCTGCCACTTTACACGAGGATGTTGATCAGG AAATGAATTCAATACCATA	CCACCCTTGCTCCAAATTTATATCATGACCTTTGAGC ATCCTTCAGCTATCTGAGCACGTGCAATCAGTGACGCA TGACGTTTTTCCACTCAGGTGCAGCCAAATATGCAGG TAATTGTTCAGAAGCAACAGGCACAATCGTATTTCTCC AAAGATATAGATAACCTGTCTAAACATTCTGTCCAACA CTATAATT	64.7
CaSNP60	<i>Ca-desi</i> -chr01	5823260	(C/T)	CTTCAACATTCAAACAGTAAGTACTAGTAAGAAGTAACT GGTGATCCAAAAGAATGAGCATGTTCAATGAAGCCC TTAACACCAATCCAGCTATCCCAGCTTCCTTGACCAG CCCTTTTGTCTCATGATGCTTCTCAGTTCATCAACAC AATCCCACCTACCAATGGCTGCATAAAAAGTTTGATAC AAGCACAATATTGCT	GCTTTGTGCGGGTCCAACTGCAAGAGATGCTTTGCAGC AAATTCACCTCTTTCAAATCTTGATTAAGACTGCAAGC ATTCAACAATGCTATCCATACTCTGCAGTAGGTCTACT ACCCATTTCAATCATATTGTGATAAGTGGACCAAACATC TTCTATATTACGGCTCGACCTAAGATATCTATGAAGCA CGCGTAG	65.9
CaSNP61	<i>Ca-desi</i> -chr01	6080870	(T/C)	GAGGTGCAGATCTGACCATTGCAAATTACGCAATCT ATGCAAGAAGAAACAACCAGAGGATTGAATGGTAAT TTTCTTAAGCTGCAATTCCAATTGTTAACATGCTCGT TTGTATGAATCAAACCTTTGTGATGTTGCTGAATAGTA TCCCTtACTTGTGCTAGAGTTTTGTATCAATAGCCTTG CCCCAAAATTTGCAA	AAGTGCAAATATCCACTTTGCTCTGGATTTGAAGCTTT ATGCTGCCAAACAAAAGGAATGGGCCTCTAGAGAGGG AGTTTAACTAGGTGTCTTCAGAGCAATGTTTGTGGTA CGATTTTTCTACCATTTCTGTGTTGATTCTTGAGGCACAA TAGTAACGCATGTGATATCTGTAGTCTTTCAACAGCATA AGAAAAGAC	66.7
CaSNP62	<i>Ca-desi</i> -chr01	6083987	(T/G)	AAAGACTTGCATTGCACTGGAGAGATAAGTATATCTC CCGGAGAAACCTGCATTTTATATAGATTCTCACTTTTC TTTTGGACAGAAACATCAGCACAAGCACAATATCAC ACACAaTATTGTACCTCCTCCACGTGCTTGAAGCCA GTGGATCCACAGAACTTCTCTATCTGTATACTGAGA AGATGTTGCAGCACT	GTTTTGTCTATGAGAGACAATTGAAGTATTCTTTCAACA CGATCTGGCTTCTCATCCAACCGTATAGCAGCCATATCC GATAGAAGCTTTAGGGACTGTTTACACGGCAAAAAGATA TTTTACATGGTGATTAATAAAGTGTGCTTCCAATATAA TTTCTTCAAGTATGAGCAAGTTGAAAGATTATCATTGAA CTAAGTA	67.8
CaSSR6	<i>Ca-desi</i> -chr01		(TA30)	TCATTAATAATTCTATTGTCTGCTCCTT	ATCGTTTTTCTAAACTAAATTGTGCAT	69.5
CaSNP63	<i>Ca-desi</i> -chr01	6108008	(T/G)	CTCAGGTACATGTATCCTTCTCACTCTCTCATTAAAT TGATTTATTCACACTTTCCCTAGGTTATCAATATAGG CAATTAGCGCCGCAATCATGCCAGTGCGGCATGGAA TAGAGGCTTGGGTGTTGCACCGGAGTTTGCAGCAGC GTGGTGCAAGTATTTTCATGTCTGGAGTGGCACAACA GACCCACTGCAGCGTA	GGTTTCGCAAAAaCGTAACTTTCACTTTCCTTGTCTATT ATGTGCAAACCAAAGCTTCTCTTTCTTCAAACCTTGCA TTCTTGCAGTAGAACAAGAACAACGACCTAGCTGCCT CCGTTGCAGGCGCCATCGACCCACCGTCGCATCTATC CTCTCCGAGCAGCTCTCTTTCTGTGCGACCTTGATGTA TTTCTGC	70.4

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP64	<i>Ca-desi</i> -chr01	6108016	(C/T)	CATGTATCCTTCTCACTCTCTCATTAAATTGATTTATT CACACTTTCCCCTAGGTTATCAATATAGGCAATTAGC GCCGCAATCATGCCAGTGCAGCATGGAATAGAGGCT TGGGTGTTGCACCGGAGTTTGCAGCAGCGTGGTGCA GTTATTTTCATGTCTGGAGTGGCACAACAGACCCACT GCAGCGTATGGTTTCG	AAAAAaCGTAACTTTCACCTTTCCTTGCTATTATGTGCA AACCAAAGCTTCTCTTTCCTTCAAAACTTGCATTCTTGC GAGTAGAACAAGAACAACGACCTAGCTGCCTCCGTTGC AGGCGCCATCGACCCACCGTCGCATCTATCCTCTCCGA GCAGCTCTCTTCTGTGCGACCTGTATGTATTTCTGCCT GGTTTT	72.5
CaSNP65	<i>Ca-desi</i> -chr01	6108035	(T/A)	CTCTCATTAAATTGATTTATTCACACTTTCCCCTAGGTT ATCAATATAGGCAATTAGCGCCGCAATCATGCCAGT GCGGCATGGAATAGAGGCTTGGGTGTTGCACCGGA GTTTGCAGCAGCGTGGTGCAGTTATTTTCATGTCTGG AGTGGCACAACAGACCCACTGCAGCGTATGGTTTCG CAAAAAaCGTAACTTTCAC	TTCCTTGCTATTATGTGCAAACCAAAGCTTCTCTTTCCT TCAAAACTTGCATTCTTGCAGTAGAACAAGAACAACG ACCTAGCTGCCTCCGTTGCAGGCACCTCGACCCACC GTCGCATCTATCCTCTCCGAGCAGCTCTCTTCTGTGCG ACCTTGATGTATTTCTGCCTGGTTTTtAAATTTtCCTCTG TTTTG	74.3
CaSNP66	<i>Ca-desi</i> -chr01	6108094	(C/T)	CGCAATCATGCCAGTGCAGCATGGAATAGAGGCTTG GGTGTGACCGGAGTTTGCAGCAGCGTGGTGCAGT TATTTTCATGTCTGGAGTGGCACAACAGACCCACTGC AGCGTATGGTTTCGCAAAAAaCGTAACTTTCACCTTC CTTGCTATTATGTGCAAACCAAAGCTTCTCTTTCCT CAAACTTGCATTCTTG	GAGTAGAACAAGAACAACGACCTAGCTGCCTCCGTTGC AGGCGCCATCGACCCACCGTCGCATCTATCCTCTCCGA GCAGCTCTCTTCTGTGCGACCTGTATGTATTTCTGCCT GGTTTTtAAATTTtCCTCTGTTTTGTGAGAGTAAAAACAG AAGAGCCACACTAAAGCCTCATTTTTTTtGtACTTTTCCC CGTCC	75.6
CaSNP67	<i>Ca-desi</i> -chr01	6108140	(A/G)	CGGAGTTTGCAGCAGCGTGGTGCAGTTATTTTCATGT CTGGAGTGGCACAACAGACCCACTGCAGCGTATGGT TTCGCAAAAAaCGTAACTTTCACCTTCTTGTCTATTA TGTGCAAAACAAAGCTTCTCTTTCCTTCAAACTTGC TTCTTGCAGTAGAACAAGAACAACGACCTAGCTGC CTCCGTTGCAGGCGCC	TCGACCCACCGTCGCATCTATCCTCTCCGAGCAGCTCT CTTCTGTGCGACCTTGTATGTATTTCTGCCTGGTTTTtA AATTTtCCTCTGTTTTGTGAGAGTAAAAACAGAGCCA CACTAAAGCCTCATTTTTTTtGtACTTTTCCCCGTCCAGC CATGTTAGCTTCATCTCATGGTCCACAAAGTAACAGCAC ATCG	76.9
CaSNP68	<i>Ca-desi</i> -chr01	6111677	(A/G)	AGAAGAAGCAGAGCGACTCTAACGAAACGAAGTTAT GATCGATCAACGGAGTTAGAAAATGTATGGTGACTT CCTAGATAAGGTCATTGTGCCTAATAGGGCTGCCAG ATCCAACCTGAGAACTAGATAACCAATTTGCCATTGG ACTTCCTGGATAAGACAAAACAGTGCATACGCAGG ATTTCCATATGACTGGAACC	CCGATTTACCACCCATTGGAACAATGTTGGTGACTTC TGAGGTGAAAGCAGCTATCCAAGATAAGCTTTCTAAAG CTCAAGTAAATTCATGTACGAGTTGCCTAAGTAATTCCT GTCCACGGATGGGTCGTTAAGAGCAACATTTGTGGAT CAGTAGTGCTTCGTGATAGGGAAGAACCAAGTGACGC ATCATAAGAA	77.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP69	<i>Ca-desi</i> -chr01	6111732	(T/G)	AAAATGTATGGTGACTTCCTAGATAAGGTCATTGTGC CTAATAGGGCTGCCAGATCCAACCTGAGAAGTAGAT AACCAATTTGCCATTGGACTTCCTGGATAAGACAAAC CAGTGCCATACGCAGGATTTCCATATGACTGGAACCA CCGGATTTACCACCCATTGGAACAATGTTTGGTGACT TCTGAGGTGAAAGCAGC	ATCCAAGATAAGCTTTCTAAAGCTCAAGTAAATTCATGT ACGAGTTGCCTAAGTAATTCCTGTCCACGGATGGGTGC TTAAGAGCAACATTTTGTGGATCAGTAGTGCTTCGTGA TAGGGAAGAACCAAGTGCAGCATCATAAGAATATGAA GCATGGGGCCCAACATTTTGGGCTACAAATGACCCCTG AACATTTGATC	78.4
CaSNP70	<i>Ca-desi</i> -chr01	6113445	(T/C)	AGTTTATACAAGCGATTTCACTACATGCCTCTCTCATA TTCTCTCATTCAATATGGTATCTAGAGCTtGGTTTCGAT CCTCCCTGACATGTCTTGTCACTATCCGCTACTGAGT TCCCTAAAGTTGAGAAATATAATAGTAGTTTTTCTTTT CCGGCTACTATCATTCCAGCCACCATTGCTGCTACCC TCTGCTCCAC	GGAAAATATTTCCGGTGTACTCACTTCCATTGCATGCAA AATCTCTCGACCTACGCAGCCCATAGATTTTACACCTA GAAGTAGCTCCATGCGCCGTCCACCGCCACCATGTTCA TCCCACATCTTTTGGAGATAAAGAGGCGGACATTTGGA GAAAGGCATCTGTAACCTCAGTGAGAGGTGGAGTATC CCAAGAAAAG	79.6
CaSNP71	<i>Ca-desi</i> -chr01	6262893	(T/A)	TATGTTTGTAAATGAAATAGGAGGATTTAAAACCTCAT TAAACCTGTGAAAGCAAATCAGCAGCTACGTGAGAC GGAATTGCATGTTTGTCTGCAATGACTAAAACCTTCAG ATGGACCAGCTGGCATGTCAATTGAAACCATAGCTTC ACTATTCTGCAAAAGATTTTGA AAAAGACAAGAAAA AGAGAAAGAAGTTTTTAG	TTCAAATTATGAAATGCGATAGTGATGTGGATACAAA TCAAGAGATTCAAATATAAACACACTTGAAGTATCATT TTGCAGCTGTAACGTATTGATTTCCAGGGCCAAAAATC TTCTCAACCTGCAAAAGTTGCCACAAATTCACAATTAG AAATGATAGAAAAATATGAATTATGAATACTGTTAT AATTAAGA	80.5
CaSNP72	<i>Ca-desi</i> -chr01	6262953	(A/C)	AGCTACGTGAGACGGAATTGCATGTTTGTCTGCAAT GACTAAAACCTCAGATGGACCAGCTGGCATGTCAATT GAAACCATAGCTTCACTATTCTGCAAAAGATTTTGAA AAAGACAAGAAAAAGAGAAAAGTTTTTAGTTTCA AATTATGAAATGCGATAGTGATGTGGATACAAATC AAGAGATTCAAATATAAAC	CACTTGAAGTATCATTTTTGCAGCTGTAACTATTGATT TCCAGGGCCAAAAATCTTCTCAACCTGCAAAAGTTGCC CACAAATTCACAATTAGAAATGATAGAAAAATATATGA ATTATGAATACTGTTATAATTAAGAATCAAATCCTAAT ATTTAGGATTAGAATTAGCCTAAGAAGTGCGGACTCCG ACAAGACA	81.4
CaSNP73	<i>Ca-desi</i> -chr01	6304541	(A/G)	GGCTAGAGAAGCTGTTGCTATGAGGTCTAAGGTTCA GAAGGAAATGCTTTtGAAGGAGAAGGAAaGGAaGG AACAGGAGTTGAGGGCTTTGGCTCAGAAAGCACGGT CGGAGAGAATTGGTGTGCTCCACCGGCTGCTGCTG CTTCGGTTGTGAGTGGTGTGATGATGGTGGTGATA TGAGAGTTGATTATGAGCATAG	GATAGGGAAAGGgATAATAGGGAAAGGGAAAGGGAA AAGAATTTTCCGAAGGAGAGTAGGGAAAGAAAGAGAG GAGCGTTGCAACGTGAGAAGATTCGTGAGGAAAGGC GAAAGGAGAGGGAGAGGGAGAGAAGGTTAGAGGCTA AGGATGCTGCCATGGGAAAGAAGAGCAAGATTACTAG AGATAGGGACCGTGATATA	82.4
CaSSR7	<i>Ca-desi</i> -chr01		(TS71)	GGTAGACGCAAAAGAGTGGG	GCCACATTGACCAGGAATG	83.6

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP74	<i>Ca-desi</i> -chr01	6313759	(T/A)	TCTTACAATATGACAACACCAACTGCTACAATTTAATC CTCTGATATACAGATTCCCTGAAGATAATTTAATATTC AACAATCAATTATTAGATTAATAAAATAAAATTTAGGC AGCAGAGCCTATCAGGAAGCATAACGACCTCAATAAA ATAAGAAACCGAACCTAATCAGCCAATGAAGTATA CAATATTTCAACTGTT	TAGGAAAAATTATGCTGCATAGAGATACAAGGGCCTGT TTGATTGAAAATTTTAAACAATAGTTTTCTGTTTTCAAAA GTTAACAAAGAACAAAGATGGTCTATTGTGGACAATGA CTTAAAGTCACCAATATTCTAACACAATCAACGACAAT CCTCATAAAAGTATAAGTTAACCCCATCCCCATCTGTA AAGATGAG	84.5
CaSNP75	<i>Ca-desi</i> -chr01	6319012	(A/G)	ATCATCGAGAAAATGCAGCTACCAATCAACCTATCC GGCGACCTTGATCTAGTCTTGAGAGATTTTCAGCAG TCAATGAATCACCAGACCCTGGTGACCATGAAAAGT GGCTGTGTTTTGATGGAGAGAATCCAGCTACAGCTG CAACTTTTTCATCAGGACTAATATTTCCGATGGCGA CCCTTTACGTGAGGCCAC	AGTCTCTCGGCTGATAACAACAAAGCACCACCCCTCTC TGTCGAACGAACTGGTCCAGAGATAACTGGCTGCGAG CGTCCACGGATATCCTTACCTGTGCATATTCTGGTGTA GGAGATCTTGACATACGTATGTAGTGTATGAAGACAGC CAGTAAGATTAATATGAAGAGAGCAACCACACATGAC ACTATAATTATT	86.9
CaSNP76	<i>Ca-desi</i> -chr01	6322174	(A/G)	TTAGCAGACCATTTAATAACTACACATAGTAACTAA AACATAAATGCACTGAACTTAACCAACAAAAaGAG TAAACATTATTTTGGAGAGATCTGAAAACTTAAAC ACATTATTTCAAACAAAATCACGTCTTATAAGTACA ATGTAGACTGCAGCAGAAAACCTACCTTACATATC AACTTAAGAACACAAC	CAAAGATTAACCTTTAAAAaCTCATAGAGTTGAAGAT TTGAAGTACAGAGAAGCAGCATTTTGGCTACAACACT CATGAAGAAAAGGGAAATTAGTACCAATTTGCATCCA TGCTGCAATAAAGAGGAAGGGACCAATAACTTTTTTt GGCCCTAAAAAGCTTTGATGGAAGGAGTGAATTCTTTT TCCAACCCAAA	88.9
CaSNP77	<i>Ca-desi</i> -chr01	6322202	(G/T)	GTAAACTAAACATAAATGCACTGAACTTAACCAAAC AAAAaGAGTAAACATTATTTTTGAGAGATCTGAAAA CTTAAAAACACATTATTTCAAACAAAATCACGTCTTAT AAGTACAATGTAGACTGCAGCAGAAAACCTACCTTC ACATATCAAACCTAAGAACACAACAAAAGATTTAAA ACTTTAAAAaCTCATA	AGTTGAAGATTTGAAGTACAGAGAAGCAGCATTTTGGC TACAACACTCATGAAGAAAAGGGAAATTAGTACCCAA TTTGCATCCATGCTGCAATAAAGAGGAAGGGACCCAAT AACTTTTTTTtGGCCCTAAAAAGCTTTGATGGAAGGAGT GAATTCTTTTTCCAACCCAAAAAAAaTAGTAACAAAAAT TTCTCTTTTT	89.5
CaSNP78	<i>Ca-desi</i> -chr01	6333418	(G/A)	AACCAGACCTTGTTGAGACTGCGGGTTGGCAGCTTA ATTGCAGCAGGGACACCATCATCAACCTCTCCTTTAT ACACCTTACCAAAGCCTCCAACCTCGATGATCAGACT CTCGTCGAAACTATTTGTTGCAGCATTAAATTCGGCC AATGTAAACCGCTTACCAGCTCTGGTTGAAGCCACAG ATCCATATAACTTTTG	GTTCCAGCCGATCCCTGGCACCTCCACAGTGCTGTTT ACAGCAGCCCCATACAGGAATATCGGTGCGCAACCCGG AGAGTTGTTTTTGGTATCACTTGATTCTTTTCTCCTTTA AAGAAACAGAAAATAAAGACACCAATACATGCCATTAT AGCTACAGAAGCTATACCTGCTCCTACTCCAATCCAAAC AACTCTT	90.5

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP79	<i>Ca-desi</i> -chr01	6341213	(A/C)	ATGCATTTGCTCCTTGTATTGTTCAATTCCTTTGCTG CTGCAACAAGGTTACCCTTAGTAACATCCAACCTTT ACTGTTCTCCACAATCCATTTATGTTGACGATCTGTCT TAGTTCTTAACTGTCAAGCTGTTCCGAGGCAGATTC CATCTTACACTTTTCTGTTCCAAAGCATCAGTTGCCG CTTGGATTATATT	TCTTTTCTTCCACTATTGATTTCAATTTAAGTATTTAC ATTTAAGTTTATCATTCTCAGCAGCTTTGAATTTTAGTG CTTCATCCGCATCTACCAAAGCTTCTTTAAATATAATTTG ATTAATATCCAGTAGCCCTTGCATCATAATTGACTCCAT ATTTGCTTCTTCTATTTCCAACCCATTGGAAGCTTGAGC ACTG	92.4
CaSNP80	<i>Ca-desi</i> -chr01	6341237	(C/T)	AATTTCTTTGCTGCTGCAACAAGGTTACCCTTAGTA ACATCCAACCTTTACTGTTCTCCACAATCCATTTATG TTGACGATCTGTCTTAGTTCTTAACTGTCAAGCTGTT CCGAGGCAGATTCATCTTACACTTTTCTGTTCCAAA GCATCAGTTGCCGCTTGGATTATATTATCTTTTCTTC CACTATTGATT	AATTTAAGTATTTACATTTAAGTTTATCATTCTCAGCA GCTTTGAATTTTAGTGCTTCATCCGCATCTACCAAAGCT TCTTTAAATATAATTTGATTAATATCCAGTAGCCCTTGC ATCATAATTGACTCCATATTTGCTTCTTCTATTTCCAACC CATTGGAAGCTTGAGCACTGTGCATAGTTTCTTTCAATA TTATA	93.5
CaSNP81	<i>Ca-desi</i> -chr01	8173005	(T/C)	TTCGACTAGATTAGATTAGAGGAAACTGTAAAGAAA AAGTAAAAGTGAATGGAATACCGGATACGATAGAA GGGATTGGAAGGAGTGAAGAGAAGCGCAATGGCG TGTAAGAGTTGGACCCGTTGAGACGGTGTGGGGGA GAGGAACCGAGAAGCGCTGATTCCAAGGTGGCTAG AAGCTGCTTCGGAGAGACATTTG	GCCGCCGGTGTGATGATGAAATGAAACCCTACGAGTC ACAACACAAGTGAAGAGAGAGAACACAGGTAAGGGC GGGAAGGAGGAAGTGAAGTAAATTTGAGTCCACAAAA ACAAATTTGCAGCTCAAAGTAGTAGCGCCCTGCTGGTG ACGTCTTAAACCCTATCAAACATAAAGTACAAAACCCCT CCACTTGGTTTTT	94.5
CaSNP82	<i>Ca-desi</i> -chr01	8871945	(C/T)	AAGGGAGTAGAAAAATGTTGCAGGGTAGTAATGCG GTGGCGGAAGCAAATAGTGATGATGGTGGTGTGAC GAGAGAGGGTATGTACAAAGGAACGGGAGAAGAG ATGGGTATGTCAAGTATGCAGCAAGAGAGGGTCCA ATAAAAGCAGAGGAAGAAGGAGATATGGTGAGAGA TACTGCAAAGGATAGCATGGATGGAG	TTGGATAGCAGCTACAAACAAGGTTGAGATTGTCACA AGGATGAAGGGCAACGATAATTATATAAGGAGGAAAC ATCTTATAAATCCACAATGTTTTATTATCAAAATGTGTC ATCACTTCTTTATGTAATGCCTACTTAATTTCAAACCACT TGCATAATTATGGGTCGTTATGCTTTTCCATTTGCCTATT TACAAC	95.6
CaSNP83	<i>Ca-desi</i> -chr01	10106781	(G/C)	TTtATCAAACCTACAAAATAAATAaCCTAAAAAAAa GGATATAACCGTCATTTTCATATAGACGAAACCGAAGT GGTTTCAACCCTAATTATAAATATATAAGACTACCTTC ATTTTTACAGTGTCCACTTGCAGCGCCTCGTGATATC TCTCTGGTGTCAAACCCCTAACATCCAGATCTCGCT ACTCTTCCATTAC	ATCAAGTAAGTTTGCAGCTTTTTACAATCAATTTCAAT TCCATCTATGTCTCATTGATTCTAACATTTTTGTTTGTCT AATTTTTGAATCAGATATGAAGATCATCGCTGCTTACT TGTTGTCTGTATTGGGAGGTAACCTATCCCCTCAGCCG ATGATGTTAAAAAAaTTCTCCACTCAGGTTGTAATTTT AATTC	96.4

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs/SSRs	Upstream 200-bp flanking sequences/Forward primers (5'-3')	Downstream 200-bp flanking sequences/Reverse primers (5'-3')	Genetic positions (cM)
CaSNP84	<i>Ca-desi</i> -chr01	11569811	(A/C)	TCACCGACCATACCGAAGAACTTGGCTTGAGAACAG GCTGGAGGACAACCTTCCAACCTGGGAATGCTTGAA AGGCATGATTCAGCATCCTCAAGTTGATGGAGTTTCA AATAAGCTTCTGCTTTACAAGCCACAAGCTGCAAGTA ACAGTCCAACAAGTAAGACAACACATAACCATTGGAA AATCCAAAATTTTAGTCTC	cTTCATCAATTAAGAAGTACTACCTGAGGTGAGAAGTC TGCTCCAATCGCAACAGCAGCCTCTACTTCTGGATTGC CCTTTTCCAATCACCGATCTTCCGCACATCCGCACATCG GTTACATGCTTCTCCAACAATAACAGCTTCTGCTCTTC CAATTGATCGTTCTGCAAACCCGCATAATATAGGTGGC GACGCGAG	97.3
CaSSR8	<i>Ca-desi</i> -chr01		(TR55)	TTACTCAACCATAATAATAATAATAAT	CTCTTCAATCTTCACTTATTCAT	98.5
CaSNP85	<i>Ca-desi</i> -chr01	12159674	(A/C)	CGTTTATAACTGAGCAACAACAATAGCTTATTGGTAA AAAAaCAATCAACAAAAGAATAATTAAGGGTGGGA TGTGGTGATCATAACACAACAAAAGGTGCAAGTAA TCATAACATAAAACAAACGGGTGCATGTGATAGAAT GCATACAGTTCATTTGCAGCATACAGTTGTGCTTCAT CTTAGGCATGCTGCAATa	aaGATCAAATTATAATTACTACTATTAGTATTATAAATG CAAGCATATGTGAAAATGAATATGATTGGTTTTCAAAA AAGCGCACCTGTAAAATATGTAAAACAGTGTTCCAAT GTAAACTTTGCAAAAATAACCTTGCTGCACCACACAaGA ATTAGCCACATAAAAaGCAGAAAATAAGGACatAGaa ataTAAAGCT	99.6
CaSNP86	<i>Ca-desi</i> -chr01	12163294	(C/A)	AAAGGCTTGATGTAGGTTGCTGAACCCCTCCAGTTG GCATGCTATTTATTGTTGAGTTTCTTGATGTAAGTGTA CTGGGCATGTTGGGAACGTTGAAGCTTCCATGCATG TTGTGCAACCCCTGAATACCACCTGTAGcAAAGAGCT AGCTATTATGCAACTAAAGGAGAGAAGAAAATGAAT TGACTCCAGCAAAAATATT	TCACCAGTGTGATGATAAATTGGGGAGGCTGCACCAG ACTGACTCGAGAATGATGTAGTGAAGAACGCCACG ACCGTCTGGAAGATTTGAAGTAGAACCGTTCAGAGAA GACTGCAAACAGAACTCTGTTATAATTTACATCAATTGT GAAAGGCGAAAAGCACAAATCAATATCCGACAAAAAT TATAATGATGATAT	100.1
CaSNP87	<i>Ca-desi</i> -chr01	14093206	(T/A)	TTTGCTAECTTTGCCAECTTATGGGCCTCTCTACAT TATTTTGTCTACCAATGAACTGTCAGAAGCATGTCT AAAATAAaCATCAGATCATTACAATCCAATTACACTT CTATGCTTTAGATATTTTGTtCGgCTGCCAaTTGAAGG CACCAGCACACCAAGAGCTTCTGCCGTATACGAAT CTGAGGCAATGCA	TCTTTTCTGCAAGCTGCCAAAGAAAACAACCCATTGG ATCTTTAAAAaCACATCCCCACGTGGTAGGGCCATCCA GACAGCCCCcCATCAACCTGTGCAGTAAAATTAGCAG TGACAGTTCTGATTTATGGTATGCTTTCCTGCAGAATGT CATTCCCCTGCTTGGTTAAAATTTGAGACAAAATCACAA GCACTCCTA	100.9
CaSNP88	<i>Ca-desi</i> -chr01	14114903	(A/C)	CCATCCCCCTTGCCCTTTTCGGCCCTTTGACTACTAA TGATAAGAGATGGTGATGTTAATTATTAATATCAATA ATAAATAAAGAAAAAGATAAAAAGAAATCACATATAT GCAGCCGAATACAACCAATACCAATACCCTCTTAAGA ATAAGAGAATTATTATATATCTGGCGAGCGGGTTTTG GCTTTATCATCTTGAT	TCCTCGTTATCTTTATCTGCGATTGCCATTGTCAATGCTA ATGGGCGCGCGCTCAATTCAATTGTGCGCGTACCTGC AGCATATAATTATAATGTCAAATCCTTAGTTGTTGGAT ATTATTACTTTTCATGTGCAAGCATGTCAATGTCATATTC AGATGTTGAGGCGTTGTTGAAGTTCAAGGATTCATTAA CAAATGT	101.8

Markers localized at the major seed weight QTL interval (*CaqSW1.1*) are highlighted with red colour