

**Table S1.** Specific primers for gene amplification.

Target gene	Forward primer (5'–3')	Reverse primer (5'–3')	Gene ID
GAPDH	ATACTGTGCACGGACAATGG	TCAGCCCATGGAATCTCTTC	JX177362.1
Sweet11	GCTGAGCTGACAGAGGAACA	CTTGGACGATTCAGGTCCCC	NM_114733.4
Sweet605	TGGTGCACCCTGTGGATTCAGGGA	TCACTTGATGGACTCAGCCGGCCA	comp82605_c0_seq1_
SUT4	AGCTTCGACGAGCAGAGAAC	CCCATCCGAACGTATCCCG	MN233360.1
SUT3	GCGACGCCGATATGGAAGAT	GTAAGGGGTGAGGAGGAGA	MN233361.1
SuSy20	CTTGAGATTCGTCGCTACCTT	CTGAACCCTCCCTTCATCTTAC	EU908020.1
SuSy60	TTCATCCACTTTCCTTCTTCATCTA	TGCTCTCAAATACCGCAAGT	CA409460.2
INH	TCCTCTGTCCTAAATGGGGGAA	GTAGTTGGGGGTGTTGTTGC	AF529166.1
A-INV2	TGGCTTCCGGGGTTGAAAAG	TGATCACCGTTCCTCCTCCT	AY037937.1
A-INV3	CACCTCGATCGTAGAGAGCTTTG	ATCTTCACCGACGCCTTCAC	AY037938.2
AGPS1	GCAGACTTGTCTAGATCCTGATG	CCGCTTCTTTGTGAGAGGATAG	JQ797696.1
AGPS2	AACTCGGCTCGTTAGTTTCTC	GGGAGTCGGAAACAGCTTTA	JQ797697.1
SSS SPSS67	GGAATGGCAAGCAGGAACATA	CCTCCAAGAACATCTCCAAGTC	U44126.1
SSS34	GACTGTGGGATCTACTGAAAGG	TTGCTGGCTCCTGAGAATTTA	AF068834.1
GBSSI	GGAATGGCAGCAGGAACATAT	CATCTCCAAGTCCACCAGTTT	AB524727.1
GBSS82	TGGCATGTTCCGTGCGGTGG	CCCGCGACCCTGGTGAGCTA	comp82416_c3_seq5
SBEI-1a	CCTTCTCGTGGGTCTTTCATAC	ACCAGTAGTGCATGGTGAAG	AB194722.1
SBEII	CCTATGAATCCGAACCCTCTTC	ATGCCTCAGCAACCTCTAAC	AB071286.1