

Table 2. Genotyping, Sequencing and Cloning Primers

Primer	Sequence	Used for	Notes
205 212	5' TCGCTTAGTAGTTAGTACTC 5' GGTGATTTTCACGGTGGTTG	<i>RGA</i> genotyping	948 bp PCR product
205 253	5' TCGCTTAGTAGTTAGTACTC 5' CATAGACCATAGTATTCGTGA	<i>rga-24</i> genotyping	663 bp PCR product
254 255	5' AGAAGCAATCCAGCAGA 5' GTGTACTCTCTTCTTACCTTC	<i>RGA</i> qRT-PCR	286 bp PCR product
300 303	5' CTAGATCCGACATTGAAGGA 5' TCAAGCTGCTCGAGTTTCTG	<i>GAI</i> & <i>gai-1</i> genotyping	<i>GAI</i> (214 bp), <i>gai-1</i> (165 bp)
SLY1-5 SLY1-6	5' CCTAGAGGTCTCTCTGGTACA TTC 5' GACAGAGTAGTAACCACCGG GAAA	amplify the <i>SLY1</i> locus from WT and <i>gar2</i> mutant for direct sequencing	1340 bp PCR product
SLY1-7	5' CAATCGATTCCACATGAAGCG CAG	<i>sly1-d</i> genomic DNA sequencing	
SLY1-8 SLY1-9	5' CAATATGGATCCACCACAA 5' AGATTTATCGTACCGCTGTAA	pSLY1-300 construction	SLY1-8 introduces BamHI site
SLY1-14 SLY1-15 SLY1-16 SLY1-17 SLY1-18	5' GTAAATCATGCTTACTAGAA TC 5' ATCATGCCAACTGTTTGCG 5' TGAGTAGAGCTAGGAGCTA 5' TGAGTAGAGCTAGGAGCTA 5' GGTAAGTCAGATGTGATGTT	Sequencing pSLY1-300	
SLY1-23 SLY1-24	5' CTCTTAGTGAAACTCATCTTCA 5' ATCGGCTGCGGGCAGAA	<i>SLY1</i> & <i>sly1-d</i> genotyping	<i>SLY1</i> (BsaAI: 173 bp, 20 bp) <i>sly1-d</i> (no BsaAI site)
SLY1-31 SLY1-32	5' TTCCACATGAAGCGCAG 5' CCTAGCACGCGGATTG	<i>SLY1</i> qRT-PCR	361 bp PCR product
GAPcF2 GAPcR2	5' AGCTGCTACCTACGATG 5' CACACGGGAAGTGTAAAC	<i>GAPC</i> qRT-PCR	219 bp PCR product
SLY1-1 SLY1-2	5' ACTAGGATCCATGAAGCGCA GTACTACCGAC 5' GTAGGAATTCTTATTTGGATT CTGGAAGAGG	GST-SLY1 / <i>sly1-d</i>	5' and 3' primers for amplifying <i>SLY1</i> and <i>sly1-d</i> , cloning into pGEX2-TK
SLY1-3 SLY1-4	5' GTAGGAATTCATGAAGCGCA GTACTACCGAC 5' ACTAGGATCCTTATTTGGATT CTGGAAGAGG	DB-SLY1/ <i>sly1-d</i>	For amplifying <i>SLY1</i> and <i>sly1-d</i> , cloning into pLexANLS
SLY1-5ST	5' GTAGGAATTCGAGCTGATCT GTACTCGTCAC	DB-SLY1-CT1	For amplifying SLY-CT1 with SLY1-4, cloning into pLexANLS
SLY1-6ST	5' ACTAGGATCCGAGCATGCTTG ATCCTAGGA	DB- <i>sly1-10</i>	For amplifying <i>sly1-10</i> with SLY1-3, cloning into pLexANLS
GAI100-1	5' ACGCGGATCCACATGAAGAG AGATCATCATCATC	AD-GAI/ <i>gai-1</i> / GAI- NT1/ GAI-NT2	5' primer for amplifying GAI/ <i>gai-1</i> / GAI-NT1/ GAI-NT2, cloning into pACTII
GAI100-2	5' ACGCGAATTCCTAATTGGTGGA GAGTTTCC	AD-GAI/ <i>gai-1</i> / GAI- CT1/ GAI-CT2/ GAI- CT3/ GAI-CT4	3' primer for amplifying GAI/ <i>gai-1</i> / GAI-CT1/ GAI-CT2/ GAI-CT3/ GAI-CT4, cloning into pACTII

GAI100-3	5' ACGCGAATTCTAGACAACATG CCGAGTTGACTC	AD-GAI-NT1	3' primer for amplifying GAI-NT1 with GAI100-1, cloning into pACTII
GAI100-6	5' ACGCGAATTCTACCACTGACT CAACGTTTCATG	AD-GAI-NT2	3' primer for amplifying GAI-NT2 with GAI100-1, cloning into pACTII
GAI100-4	5' ACGCGGATCCCTCCGTCGTC TAACGCCGAG	AD-GAI-CT1	5' primer for amplifying GAI-CT1 with GAI100-2, cloning into pACTII
GAI100-5	5' ACGCGGATCCACGAGTCAACT CGGCATGTTGTC	AD-GAI-CT2	5' primer for amplifying GAI-CT2 with GAI100-2, cloning into pACTII
GAI100-8	5' ACGCGGATCCTCTCTCCGTCG CAGAGTCCA	AD-GAI-CT3	5' primer for amplifying GAI-CT3 with GAI100-2, cloning into pACTII
GAI100-9	5' ACGCGGATCCCACCGGCACC GGATAATTTTC	AD-GAI-CT4	5' primer for amplifying GAI-CT4 with GAI100-2, cloning into pACTII
224 217	5' ACGCGGATCCGAATGAAGAG AGATCATCACC 5' ATTAAGATCTTCAFTACGCCG CCGTCGAGA	AD-RGA & AD-rga-Δ17	5' and 3' primers for amplifying <i>RGA</i> and <i>rga-Δ17</i> , cloning into pACTII
SCL3-3 SCL3-4	5' ACGCGGATCCACATGGTGGCA TGTTTCAAGAAG 5' ACGCGAATTCTCACTTCCTGCA TCTCCAAGCT	AD-SCL3	5' and 3' primers for amplifying <i>SCL3</i> , cloning into pACTII
NSFBx-1	5' GTAGGAATTCATGAAACAAA ACCCTCTGAAG	DB-NSFBx	5' primer for amplifying NSFBx with NSFBx-2, cloning into pLexANLS.
NSFBx-2	5' ACTAGGATCCTTAGTCGACAA GAAAACATTGG	DB-NSFBx	5' primer for amplifying NSFBx with NSFBx-1, cloning into pLexANLS.
CFP/YFP1 CFP/YFP2	5' GTACCGGTGCGCCACCATGGT 5' TAGCGGTACCAATGCCGCCTG ACTTGACAGCT	35S:CFP (pCFP1)	PCR primers for amplifying CFP, cloning into pRTL2
SLY1-21 SLY1-20	5' AACACCATGGGCATGAAGCG CAGTACTACCGAC 5' TAGCGGTACCTCCTGATTTGG ATTCTGGAAGAGG	35S:SLY1 (pSLY1- 401), 35S:sly1-d (pgar2-31)	PCR primers for amplifying SLY1 and sly1-d, cloning into pRTL2
CFP/YFP3 CFP/YFP4	5' ATGCGGTACCGCCACTATGGT GAGCAAGG 5' TAGCGGTACCGCTTTACTTGT ACAGCTC	35S:SLY1-CFP & 35S:(sly1-d)-CFP	PCR primers for amplifying CFP, cloning into pSLY1-401 and pgar2- 31