

Table S1. Primer List							
Description	Gene/Fragment	Forward Primer			Reverse Primer		
		Primer Name	Sequence	Restriction Site	Primer Name	Sequence	Restriction Site
Amplify AGL coding region	AGL36	AGL36-cds-F	CAGGATCCATGAAGAAGGTGAAGCTATCTTTG	BamHI	AGL36-cds-R	CTGGTACCTTAGAGATTATTGTTGATGTAAGG	KpnI
	AGL37	AGL37-cds-F	TAGGATCCATGAGGGGGAAGTGAAGTTATCG	BamHI	AGL37-cds-R	GTGGTACCCCTAGAGATCATTGATGATGTAGG	KpnI
	AGL40	AGL40-cds-F	TAGGATCCATGGTGAGAAGTACCAAAG	BamHI	AGL40-cds-R	TCGGTACCCCTAGCTCTGGTTGAAGTTG	KpnI
	AGL45	AGL45-cds-F	TAGGATCCATGACGAGGAAGAAGCTAAA	BamHI	AGL45-cds-R	TCGGTACCCCTAGGGTGTGGTAGTAAAG	KpnI
	AGL53 nested PCR	AGL53-nested-F	GGATGTGGGAAATCGTATCTAAGATCG		AGL53-nested-R	AGAATCGGGTAAAACGAGATAAGCAAC	
	AGL53	AGL53-cds-F	ATGAGGATCCATGGATTCTTCAATGTCGACGAAGA	BamHI	AGL53-cds-R	ATGAGGTACCCCTAATTATAAGGGAACATCATTGGATCTGC	KpnI
	AGL62	AGL62-cds-F	CTGGATCCATGGTGAAGGAAAGGTCGTC	BamHI	AGL62-cds-R	CAGGTACCTTAATAGTAATCAGATCTAGACTGG	KpnI
	AGL80	AGL80-cds-F	ATGAGGATCCATGACAAGAAAGAAAGTGAACCTTGC	BamHI	AGL80-cds-R	ATGAGGTACCCCTAATGGAACCATGTTTATTGGTAATACT	KpnI
	AGL83	AGL83-cds-F	ATGAGGATCCATGAGATTCGTTCTTATTATACGAG	BamHI	AGL83-cds-R	ATGAGGTACCTCATATACCTTCTTCTGTTTGCATAAGA	KpnI
	AGL90	AGL90-cds-F	GTGGATCCATGAAGAAGGTAAAGCTATCTTTG	BamHI	AGL90-cds-R	CAGGTACCTTAGAGATTGTTGTTGATGTAAGG	KpnI
Amplify ZHOUP1 coding region	AGL48	AGL48-cds-F	TATCTAGAATGACAAGAAAGAAAGTAAAC	XbaI	AGL48-cds-R	GTGGTACCTTAGAAATGATGATTGTTAAAC	KpnI
	AGL64	AGL64-cds-F	TATCTAGAATGAACCCCAAGAAACCAA	XbaI	AGL64-cds-R	CTGGTACCTCATTGTGTAATTCTCATCATGTC	KpnI
amplify InvINH1 full-length promoter (Zuma et al. 2018)	ZHOUP1	ZHOUP1-cds-F	TATTAGGATCCATGACTAATGCTCAAGAGTTG	BamHI	ZHOUP1-cds-R	ATTAGGTACCTTATAGAGATGAAAAATATAACACCAG	KpnI
5' deletion of InvINH1 full-length promoter in 100bp increments	plnINH1	InvINH1_F	AATGTC TAGAGCTGAAATGAAACTACATGTGC	XbaI	InvINH1_R	GAGAA GGATCC CAATGAAACCAAGAAC TTCAT	BamHI
	plnINH1-D1	InvINH1-D1_F	TTACTCTAGATTGAAACACAGGGTGACCA	XbaI	InvINH1_R	same as above	
	plnINH1-D2	InvINH1-D2_F	TGGATCTAGATCTATTTCAAATTGGGAAC TTTTCCA	XbaI	InvINH1_R	same as above	
	plnINH1-D3	InvINH1-D3_F	AAAGTCTAGATTGCATGTTGACCAATTCCA	XbaI	InvINH1_R	same as above	
	plnINH1-D4	InvINH1-D4_F	TTAATCTAGAGATTTTGGAAACACTCACAATCGT	XbaI	InvINH1_R	same as above	
	plnINH1-D5	InvINH1-D5_F	CAAATCTAGATGAATGCATAATGATGATGAC	XbaI	InvINH1_R	same as above	
	plnINH1-D6	InvINH1-D6_F	GAAC TCTAGATGCACAATGGAATGGAGAGTTGCTA	XbaI	InvINH1_R	same as above	
	plnINH1-D7	InvINH1-D7_F	TACATCTAGACCAGACCAGAAACACAGCAAGAA	XbaI	InvINH1_R	same as above	
	plnINH1-D8	InvINH1-D8_F	CCGTTCTAGACCTTCCGTATTACAAGACCGAA	XbaI	InvINH1_R	same as above	
	plnINH1-D5-d1	InvINH1-D5-d1_F	TTGCATGTTGACCAATTC	n/a	InvINH1-D5-d1_R	TTCTAAAAATCATTTCATAC TTTCAAAATTG	n/a
Internal deletion of InvINH1 D5 fragment in 20bp increments	plnINH1-D5-d2	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d2_R	TTCAAAATTGATATCTCTCTAC	n/a
	plnINH1-D5-d3	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d3_R	TACCATTATGCTATTTGAAC	n/a
	plnINH1-D5-d4	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d4_R	AACATTTTAAAGAAAAATCAAAGATTATTG	n/a
	plnINH1-D5-d5	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d5_R	AGATTATTGATTTATTGTTTCC	n/a
	plnINH1-D5-d6	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d6_R	TTTCCATATATTCACAAATTTAGTC	n/a
	plnINH1-D5-d7	InvINH1-D5-d1_F	same as above	n/a	InvINH1-D5-d7_R	TAGTCAACGATTGTGAGTG	n/a
	plnINH1-D5-d8	InvINH1-D5-d8_F	GAGAGATATCAATTTTGAAGTATG	n/a	InvINH1-D5-d8_R	TTCCAAATCTCTAGAGTC	n/a
	plnINH1ΔCArG-1	CArG-1-del-F	TGAATATATGGAAAAACAATAATCAAATAATCT	n/a	CArG-1-del-R	TCAACGATTGTGAGTGTTC	n/a
	plnINH1ΔCArG-2	CArG-2-del-F	TTGTTCAAATAGCATAATGGTAGAAG	n/a	CArG-2-del-R	AAAAATCAAAGATTATTGATTATTGTTTTC	n/a
	plnINH1ΔCArG-3	CArG-3-del-F	AAAGTATGAATGATTTT TAGAAAATGGAA	n/a	CArG-3-del-R	ATATCTCTCTACCATTA TGCTATTTG	n/a
generate CArG-site deletions	plnINH1ΔCArG-4	CArG-4-del-F	CATGTTGACCAATTCCAAAC	n/a	CArG-4-del-R	CTTTCATATACGCACGT	n/a
amplify 35S minimal promoter	35S(-90)-TEV	35Smini(-90)-TEV-F	ATTATCTAGAAATCTCCACTGACGTAAGGG	XbaI	35Smini(-90)-TEV-R	ATTAGGATCCATCGTTTCGTAATGGTGAAAATTTTC	BamHI
Amplify enhancer 2 region for monomer or trimer construction	enhancer 2 monomer	InvINH1-D5_F_HindIII	AATAAAGCTTTGATTTTGGAAACACTCACAATCGT	HindIII	InvINH1-D6_R_XbaI	ATTATCTAGACAGGCAATATTGCTTTCCATATACG	XbaI
	enhancer 2-HindIII/XbaI	InvINH1-D5_F_HindIII	AATAAAGCTTTGATTTTGGAAACACTCACAATCGT	HindIII	InvINH1-D6_R_XbaI	ATTATCTAGACAGGCAATATTGCTTTCCATATACG	XbaI
	enhancer 2-XbaI/BamHI	InvINH1-D5_F	TTAATCTAGAGATTTTGGAAACACTCACAATCGT	XbaI	InvINH1-D6_R_BamHI	TTAAGGATCCCAATATTGCTTTCCATATACGCACG	BamHI
	enhancer 2-BamHI/PstI	InvINH1-D5_F_BamHI	TTAAGGATCCGATTTTGGAAACACTCACAATCGT	BamHI	InvINH1-D6_R_PstI	ATTACTGCAGGCAATATTGCTTTCCATATACGCAC	PstI
	enhancer 2ΔCArG-HindIII/XbaI	InvINH1-D5_F_HindIII	AATAAAGCTTTGATTTTGGAAACACTCACAATCGT	HindIII	InvINH1-D6M4_R_XbaI	ATTATCTAGACTTTCCATATACGCACGTTCAAAGT	XbaI
	enhancer 2ΔCArG-XbaI/BamHI	InvINH1-D5_F	TTAATCTAGAGATTTTGGAAACACTCACAATCGT	XbaI	InvINH1-D6M4_R_BamHI	ATTAGGATCCCTTTCCATATACGCACGTTCAAAGT	BamHI
	enhancer 2ΔCArG-BamHI/PstI	InvINH1-D5_F_BamHI	TTAAGGATCCGATTTTGGAAACACTCACAATCGT	BamHI	InvINH1-D6M4_R_PstI	ATTACTGCAGCTTTCCATATACGCACGTTCAAAGT	PstI
	wildtype allele	SALK_022148 LP	GCATTTTCTATTCTACAAACACCAATCC	n/a	SALK_137707 LP	AGACTGGGGAGGATAAACCATG	n/a
	T-DNA allele for agl62-1	LBb1.3	ATTTTGCCGATTTCCGAAC	n/a	SALK_022148 LP	GCATTTTCAATTCTACAAACACCAATCC	n/a
	agl62 genotyping primers	T-DNA allele for agl62-2	ATTTTGCCGATTTCCGAAC	n/a	SALK_137707 LP	AGACTGGGGAGGATAAACCATG	n/a