

Table S1 Information for the primers used in this study.

Primer Name	Forward Primer	Reverse Primer	Applications
VcCHS8	ATGGTCACCGTCGAGGAA	TCAAGTGCACAAGCTGTGG	Vector construction
VcCHS8-OE	ACGGGGGACTCTAGAGGATCCATGGTCACCGTCGAGGAA	GCTCACCATCGCTGCACTAGTTCAAGTGCACAAGCTGTGG	
VcCHS13	ATGGCTCCTACAGGTGTGT	TCAGTGAGTCACACCGC	
VcCHS13-OE	ACGGGGGACTCTAGAGGATCCATGGCTCCTACAGGTGTGT	GCTCACCATCGCTGCACTAGTTCAGTGAGTCACACCGC	
VcCHS21	ATGGTGACCGTCGAGGAA	CTAAGTGCACAGACTATGGAGC	
VcCHS21-OE	ACGGGGGACTCTAGAGGATCCATGGTGACCGTCGAGGAA	GCTCACCATCGCTGCACTAGTCTAAGTGCACAGACTATGGAGC	
VcCHS21 ₃₀₆	TATTTTGTCTAGTAATAATATGAGT	AGAAATAAAAAATAAAAAATTTAAATTTGG	
VcCHS21 ₃₀₆ -Ai	AATTCGAGCTCGGTACCCGGGTATTTTGTCTAGTAATAATATGAGT	ATACAGAGCACATGCCTCGAGAGAAATAAAAAATAAAAAATTTAAATTTGG	
VcCHS21 ₁₂₉	AGTTGAAACTCAGCTTG	TTTGACATCTCTCTTTAATC	
VcCHS21 ₁₂₉ -Ai	AATTCGAGCTCGGTACCCGGGAGTTGAAACTCAGCTTG	ATACAGAGCACATGCCTCGAGTTTGACATCTCTCTTTAATC	
VcAN1	GCAACCCTCTCTCTTTCACT	CCATTTTCATTACCGCAAGC	
VcAN1-AD	GCCATGGAGGCCAGTGAATTCGCAACCCTCTCTCTTTCACT	CAGCTCGAGCTCGATGGATCCCCATTTTCATTACCGCAAGC	
VcbHLH42-1	GCAACCCTCTCTCTTTCACT	CCATTTTCATTACCGCAAGC	
VcbHLH42-1-AD	GCCATGGAGGCCAGTGAATTCGCAACCCTCTCTCTTTCACT	CAGCTCGAGCTCGATGGATCCCCATTTTCATTACCGCAAGC	
VcbHLH1-1	GCACAGAATCAATGGCTTC	CGTGTTTGTGGTTTGGC	
VcbHLH1-1-AD	GCCATGGAGGCCAGTGAATTCGCACAGAATCAATGGCTTC	CAGCTCGAGCTCGATGGATCCCGTGTTTGTGGTTTGGC	
VcbHLH1-2	TTCCCTTACCCATCTTCCT	CTGTGTTTGTGGTTTGGC	
VcbHLH1-2-AD	GCCATGGAGGCCAGTGAATTC TTCCCTTACCCATCTTCCT	CAGCTCGAGCTCGATGGATCCCTGTGTTTGTGGTTTGGC	
GAPDH	GCTCCCAGCAAGGATGCCCC	CGGAAGGCCATTCCAGTCAACT	
qVcCHS8	TCGGGTTCTAGTCGTTTGCT	ATGGCTTCTCAACTTCGGGA	qRT-PCR
qVcCHS13	CCTCGTTGTTTGCTCCGAAA	AGACGAGTTGGAAGAGTGGG	
qVcCHS21	CGCATGTGTGACAAATCCCA	ACCATATCCTGCCTAGCGTC	
qVcCHI	TCTTTCCTCCGTCGGTCAAA	ACTCTACGGCGCTAACTTGT	
qVcDFR	GCTTCTTGAACGGGGCTATG	CTCAATGGCCTCGTCGAAG	

qVcF3H	GTGGACGGAGCTTTTGTGT	GTGATTGGCTCGTCGAGAAC
qVcANS	ACCTGAGAGCCCTAACAACC	CTGTGATCCATTTGCCCTCG
qVcUFGT	ATTGGTGTGAGAGTGGAGGG	GTCCAACAGCCTTCAAAGCA
Actin	TGACCGAATGAGCAAGGAAATTACT	TACTCAGCTTTGGCAATCCACATC
qMdCHS	GGAGACAACTGGAGAAGGACTGGAA	CGACATTGATACTGGTGTCTTCA
qMdDFR	GATAGGGTTTGAGTTCAAGTA	TCTCCTCAGCAGCCTCAGTTTCT
qMdANS	GAGAAGTATGCCAATGACCAGG	GGCGGTTGCCTCAATGTAAT
qMdUFGT	CCACCGCCCTTCCAAACACTCT	CACCCTTATGTTACGCGGCATGT
