

Supplementary Table S1 Information for the primers used in this study.

Gene name	Primer name	Primer sequence	Annealing temperature (°C)	Application
<i>VcF3H2</i>	VcF3H2-F	ATGGCACCAACGACGCT	59	Gene cloning
	VcF3H2-R	CTAAGCAAAAATCTCCTTAATGGGC		
<i>pbi121-F3H2</i>	pbi121-F3H2-F	ACGGGGGACTCTAGAGGATCCATGGCACCAACGACGCT	67	Vector construction
	pbi121-F3H2-R	GTAAGGGACTGACCACCCGGGCTAAGCAAAAATCTCCTTAATGGGC		
<i>pVcF3H2₁₉₆₀</i>	pVcF3H2 ₁₉₆₀ -F	AGTTTAACAGATTCATAATTCAGTTGTCC	59	Gene cloning
	pVcF3H2 ₁₉₆₀ -R	TTTTCTCTCTCTCTGTAATCAATAATGTCC		
<i>pAbAi-pVcF3H2₁₉₆₀</i>	pAbAi-pVcF3H2 ₁₉₆₀ -F	AATTCGAGCTCGGTACCCGGGAGTTTAACAGATTCATAATTCAGTTGTCC	67	Vector construction
	pAbAi-pVcF3H2 ₁₉₆₀ -R	ATACAGAGCACATGCCTCGAGTTTTCTCTCTCTCTGTAATCAATAATGTCC		
<i>LUC-pVcF3H2₁₉₆₀</i>	LUC-pVcF3H2 ₁₉₆₀ -F	CTATAGGGCGAATTGGGTACCAGTTTAACAGATTCATAATTCAGTTGTCC	67	Vector construction
	LUC-pVcF3H2 ₁₉₆₀ -R	ATCTCCACCGCGGTGGCGGCCGCTTTTCTCTCTCTCTGTAATCAATAATGTCC		
<i>VcF3H2</i>	VcF3H-F	TCAAGAACGCGGATCACCAA	60	qRT-PCR
	VcF3H-R	CACTGAAGGGGATGGGTTC		
<i>VcF3H6</i>	VcF3H6-F	CAACAACAACGCTCACTGCA	60	qRT-PCR
	VcF3H6-R	CTCCACCTCATCGATTCCGG		
<i>VcF3H8</i>	VcF3H8-F	CGTGGACGGAGCTTTTGTTG	60	qRT-PCR
	VcF3H8-R	TGGAACGTGGCGATCGATAG		
<i>VcCHS</i>	VcCHS-F	AAGGCCATCAAGGAATGGGG	60	qRT-PCR
	VcCHS-R	CAAGTCCTTGGCTAAGCGGA		
<i>VcDFR</i>	VcDFR-F	ATGAGGCTTCTTGAACGGGG	60	qRT-PCR
	VcDFR-R	ACTCCGACGCAACCTTCAAT		
<i>VcANS</i>	VcANS-F	GATTCGTGGGCGGCTTTTT	60	qRT-PCR
	VcANS-R	ACTTGTGCTCGATGTGCTGA		
<i>VcUFGT</i>	VcUFGT-F	TGAAAAAGTGATCGGGTGGG	60	qRT-PCR
	VcUFGT-R	GGCCAATCCCAATTCCCTCA		
<i>GAPDH</i>	GAPDH-F	GCTCCCAGCAAGGATGCCCC	60	qRT-PCR

	GAPDH-R	CGGAAGGCCATTCCAGTCAACT		
<i>MdCHI</i>	MdCHI-F	GGGATAACCTCGCGGCCAAA	60	qRT-PCR
	MdCHI-R	GCATCCATGCCGGAAGCTACAA		
<i>MdCHS</i>	MdCHS-F	GGAGACAACTGGAGAAGGACTGGAA	60	qRT-PCR
	MdCHS-F	CGACATTGATACTGGTGTCTTCA		
<i>MdF3H</i>	MdF3H-F	TGGAAGCTTGTGAGGACTGGGGT	60	qRT-PCR
	MdF3H-R	CTCCTCCGATGGCAAATCAAAGA		
<i>MdDFR</i>	MdDFR-F	GATAGGGTTTGAGTTCAAGTA	60	qRT-PCR
	MdDFR-F	TCTCCTCAGCAGCCTCAGTTTTCT		
<i>MdANS</i>	MdANS-F	GAGAAGTATGCCAATGACCAGG	60	qRT-PCR
	MdANS-R	GGCGGTTGCCTCAATGTAAT		
<i>MdUFGT</i>	MdUFGT-F	CCACCGCCCTTCCAAACACTCT	60	qRT-PCR
	MdUFGT-R	CACCCTTATGTTACGCGGCATGT		
<i>Actin</i>	Actin-F	TGACCGAATGAGCAAGGAAATTACT	60	qRT-PCR
	Actin-R	TACTCAGCTTTGGCAATCCACATC		
