

Supplementary Table

Table S1. The primers used in this study.

Primer	Sequence (5'-3')	Note
<i>VdLARI</i> -F	TCCATAACTCCGTGTGCTGT	Homologous cloning of <i>VdLARI</i>
<i>VdLARI</i> -R	AGGCAATCAAGCAAGTTCCC	
<i>VdLARI</i> -BamH I-F	GAACACGGGGGACTCTAGAGATGACTGTTTCTCCGGTTCC	Construction of overexpression vector
<i>VdLARI</i> -Xma I-R	ACCATGGTGGCGACCGGTACAGCGCAGGTTGCAGTGACTT	
pBI121-F	TCCTTCGCAAGACCCCTTCCTCT	Transgenic lines identification
pBI121-R	GAACCTTGTGGCCGTTTACGTCG	
<i>VdDFR</i> -F	TGCTGATGAAGGAAGTTTCG	qRT-PCR analysis
<i>VdDFR</i> -R	GCGGAGGATGTGAATACAAG	
<i>VdLDOX</i> -F	GGAAGTTGGTGGGATGGA	
<i>VdLDOX</i> -R	GTGGAGGATGAAGGTGAGAG	
<i>VdLARI</i> -F	GGTTTCATTGGTCAGTTCGT	
<i>VdLARI</i> -R	GACTCCTGCTCGTTTATCA	
<i>VdLAR2</i> -F	CAATACCCACCCTGCTGA	
<i>VdLAR2</i> -R	TTCTCCACAGTGATGCC	
<i>VdANR</i> -F	TGTTTGGATGAGTCCTGTTG	
<i>VdANR</i> -R	CACAAGCAAGGGTAACCACT	
<i>VdUFGT</i> -F	GATTGGAGTTTCAGGCATTCAAGGC	
<i>VdUFGT</i> -R	CATGCGTGAGAAGAGCGAGT	
<i>α-Tubulin</i> -F	GTTCTCGCGCATTGACCATA	
<i>α-Tubulin</i> -R	CAGCCAGATCTTCACGAGCTT	

Supplementary Sequence

Sequence S1:*VdLARI*

>*VdLARI* (GenBank: PQ185972.1) ORF 1-1041 bp

ATGACTGTTTCTCCGGTTCCTTCGCTCAAGGGTCGTGTCCTCATTGCCGAGCAACCGGTTTCATTGGT
CAGTTTCGTGGCCGACGCAAGCCTTGATGCCATCGACCCACCTACATTCTCGACGTCCAGGCCCCAG
GAGTCCTTCTAAGGCCAAGATCATCAAGGCCACGAGGACAAAGGCGCCATCATCGTATACGGGTTGA
TAAACGAGCAGGAGTCTATGGAGAAGATACTAAAAGAACATGAGATAGACATAGTAGTATCAACCGTG
GGCGGAGAGAGCATATTGGATCAAATCGCCCTAGTGAAAGCCATGAAGGCTGTTGGAACCATTAAGAG
ATTTTGGCCGTCTGAATTCGGGCACGATGTGAACAGAGCTGATCCAGTTGAGCCAGGGCTCAACATGT
ACAGAGAGAAGCGTAGGGTCCGACAATTTGTGGAGGAATCGGGCATAACCTTCACTTATATCTGCTGC
AACTCAATTGCTTCTTGGCCATACTACAATAACATTACCCCTTCTGAGGTTCTTCTCCAACGGATTCTT
TCCAGATTTACGGTGATGGCAATGTCAAAGCTTACTTTGTTGCAGGCACAGACATCGGAAAATTACAG
ATGAAAACAGTGACGATGTCCGAACACTGAACAAATCAGTGCATTCCGGCCATCTTGCAATTGTCT
CAACATAAATGAACTCGCATCTGTGTGGGAAAAGAAGATTGGGAGGACACTTCCAGAGTAACCGTC
ACTGAAGATGATCTACTAGCTGCAGCCGGAGAAAACATCATCCACAGAGTGTGGTAGCGGCGTTTAC
GCACGACATTTTCATAAAGGGGTGTCAGGTGAATTTCTCTATTGATGGCCCGGAGGACGTGGAAGTGA
CCACCCTTACCTGAGGATTCTTTCAGGACGGTGGAGGAATGCTTCGGCGAATACATCGTGAAGATA
GAGGAAAAGCAGCCGACCGCCGATTCTGCTATTGCCAACACCGGTCCTGTGGTTGGGATGCGGCAAG

TCACTGCAACCTGCGCTTGA

Note: The start and stop codons are marked in red.