

**Supplementary tables:****Table S1.** Amino acid sequence identities among five *Da-dios* genes

	Da-dio1	Da-dio2	Da-dio3	Da-dio4	Da-dio5	Da-dioA1	Da-dioA2	Da-dioA3	Da-dioB1
Da-dio1	100	68	96	94	68	91	92	86	67
Da-dio2		100	68	68	91	69	71	62	97
Da-dio3			100	97	68	94	95	89	66
Da-dio4				100	68	93	93	87	66
Da-dio5					100	68	71	62	90
Da-dioA1						100	91	87	68
Da-dioA2							100	84	71
Da-dioA3								100	61
Da-dioB1									100

**Table S2.** Primer sequences used in cDNA amplification and qPCR analysis

Primer code	Primer sequence	Usage
Da-dio1-F	5'-TAACAATCATGAGTTCATCCACCC-3'	cDNA amplification
Da-dio1-R	5'-TTATACATAGGATGATAGTACATGCAGA-3'	
Da-dio2-F	5'-TAACAATCATGAGTTCATCCACCC-3'	cDNA amplification
Da-dio2-R	5'-CCACTCTTTTTATTTAACCATCACC-3'	
Da-dio3-F	5'-ATTATGGCCGGGACTC-3'	cDNA amplification
Da-dio3-R	5'-TTACGTGCTTCCTTAATTATCATA-3'	
Da-dio4-F	5'-ATTATGGCCGGGACTC-3'	cDNA amplification
Da-dio4-R	5'-TTACGTGCTTCCTTAATTATCATA-3'	
Da-dio5-F	5'-CCGGGACTCCAATCTAAGC-3'	cDNA amplification
Da-dio5-R	5'-GCTACATGCAGAGTGGAGCA-3'	

Da-dio1-Q-F	5'-AGTGCTGACCCATTCCTCTCG-3'	qPCR analysis (target genes)
Da-dio1-Q-R	5'-TCCCAAGTATCTAAAATAAGCAGAGTCA-3'	
Da-dio2-Q-F	5'-TCCCTCCTCTTCTCTTGCTTTT-3'	
Da-dio2-Q-R	5'-CCGTATCACTCTATCATCACACAAAT-3'	
Da-dio3-Q-F	5'-GAAATAAATGCAGGAGTTGTGGATA-3'	
Da-dio3-Q-R	5'-TCATTCACTGCCTGCTTCAACA-3'	
Da-dio4-Q-F	5'-AGCAATAGCCAGAAGAATGAAATC-3'	
Da-dio4-Q-R	5'-TGCAACCTTCCTCATGACGG-3'	
Da-dio5-Q-F	5'-CCCTCCTCTTCTCTTGCTTATCAT-3'	
Da-dio5-Q-R	5'-CGTATCACTCTATCATCACACAAACA-3'	
$\beta$ -Actin-F	5'-GGGTTACTCATTACCACCACAG-3'	qPCR analysis (reference genes)
$\beta$ -Actin-R	5'-GGTAACTCATAACTCTTCTCAACAGCA-3'	
Tubulin-F	5'-CTTGGCTTTACCATCTATCCTTCC-3'	
Tubulin-R	5'-AGTGTGTTCAAGTAAGGAATGGGT-3'	

**Table S3.** Primer sequences used for amplification of *Da-dio5* promoter and construction of binary vectors

Primer code	Primer sequence	Usage
SP1	5'-TGAAAATGAATTCGCTTGAGTTGGTACTG-3'	Promoter amplification
SP2	5'-GAGTCCGTATCACTCTATCATCACACAAACA-3'	
SP3	5'-ACACAAACAAATGGGTGACTGCTCCT-3'	
Da-dio5QI-F	5'-GCGG <u>GAGCTC</u> AGATCCTTTTTCTGGGCTGGT-3'	<i>Da-dio5::GUS</i> transformation
Da-dio5QI-R	5'-CATGGG <u>TCTCC</u> CATGGTTGTCTTTCTTAATTTTTTGC-3'	
Da-dio5-GF	5'-ACAG <u>TGCAC</u> ATGAGTTCATCCACCCTTTTCCAT-3'	Subcellular localization
Da-dio5-GR	5'-ACAG <u>GTA</u> CTATGGCATCATGATTCGATTTTTG-3'	

Underlined sequences indicate restriction recognition sites.