

## Supplementary materials

**Table S1.** List of primers used in this study.

Assay	primer sequence		Restriction Site
RT-qPCR		Forward primer(5'-3')	Reverse primer(5'-3')
	<i>BrActin1</i>	CGCTTAACCCGAAAGCTAAC	TACGCCCACTAGCGTAAAG
	<i>BrTCP21</i>	AGGAACTCTTAACGCCGTGA	GAGCTGCGCATATGATAGGC
	<i>BrNYCI</i>	CGGAGACGGTGGCTAGAACG	TGCTTCTCCTGAGCCACGAC
	<i>BrPPHI</i>	TATCTGATGCGCGGGTGGAT	TCCCGACCAATGCTGGACT
	<i>BrPAOI</i>	CAGCTTCAGCGACTCACC	TCGCCGTGCTTCTTCGAT
	<i>BrSGR1</i>	GTTGGGGTCCGCTTTGGGAA	AATCGAGCTAACCTGCGGGA
	<i>BrSAG12</i>	CACTGGCGGCTTAACCACTGAA	GAAGATTGGCTGTATCCTACGGC
	<i>BrSAG19</i>	GCAAGCGAGCGTTGGTAAAGGT	GGGTTGATTCTTCCACTCCCTTC
Subcellular localization	<i>BrTCP21-pBEGFP-For</i>	<i>ATCTAGAGCAGTCGACGGTACCATGTGCGAACGACGACGGGA</i>	<i>KpnI</i>
	<i>BrTCP21-pBEGFP-Rev</i>	<i>CTCCTCGCCCTTGCTCACCATACGTGAGTTATCCTCCTCCTC</i>	<i>BamHI</i>
EMSA	<i>pGEX-4T-1-BrTCP21-For</i>	GGTCCCGGTGGATCCATGTGCGAACGACGACGGGA	<i>BamHI</i>
	<i>pGEX-4T-1-BrTCP21-Rev</i>	AGTCACGATGCGGCCGC TCAACGTGAGTTATCCTCCTC	<i>NotI</i>
	<i>EMSA-BrGA20ox3 pro-For</i>	GGCATTGTATCTTTGTGATGGGCCCCACAAAGCCCAAGATAGCTTTTCC	
	<i>EMSA-BrGA20ox3pro-Rev</i>	GGAAAAGCTATCTTGGGCTTTGTGGGGCCCATCACAAAGATAACAATGCC	
Dual LUC assay	<i>pBD-BrTCP21-For</i>	<i>TCGCCGACCGGTAGGCCTATGTGCGAACGACGACGGGA</i>	<i>Stu I</i>
	<i>pBD-BrTCP21-Rev</i>	<i>AACCAGAGTTAAAGGCCTTCAACGTGAGTTATCCTCCTC</i>	<i>Stu I</i>
	<i>pEAQ-BrTCP21-For</i>	CAAATTTCGCGACCGGT ATGTCGAACGACGACGGGA	<i>AgeI</i>
	<i>pEAQ-BrTCP21-Rev</i>	AGTTAAAGGCCTCGAG TCAACGTGAGTTATCCTCCTC	<i>XhoI</i>
	<i>0800-BrGA20ox3-For</i>	TATAGGGCGAATTGGGTACCATTGGCAGACAGACATGACG	<i>KpnI</i>
	<i>0800-BrGA20ox3-Rev</i>	TTGGCGTCTTCCATGTTATCTTTATTGTATATATATATATATAGTAG	<i>NcoI</i>

**Text S1.** Promoter nucleotide sequences of *BrGA20ox3*. GGCCCCAC is marked by red and boxed. Translation start site (ATG) was shown in yellow box.

*BrGA20ox3* (XM\_009124115.2) promoter

ATTGGCAGACAGAGACATGACGACCTATTACAAAAGACCAAATCGATATGCTCGAGGATGGAATCTTGTATACTAAAGA  
AAACGTTACTTTAAATTGGTTCTGCTGTTTCTATACATCCAAAATTGATATTATGTAGTTGCCAATTTAGATGGGTTTTTAC  
ATAGCTCCTTCTCAGCAATAAAAGGATGAAACGTTTCGGTTCCTTAAACACCAAGAATCTGTTTTTTTCATACTTTAGCTTTA  
ATAACCAAGAAAAAGCCAACCTTATCTTTAAATTACGTATCTGATTTTGATCAATCAGCTAATACCAATCGGCATTGTTATCT  
TTGTGATG **GGCCCCAC** AAAGCCCAAGATAGCTTTTCCTGATGACTGCTAGTGGTTTCATTGAAACAACGAAACGGCCAC  
GATTTAGAAAGAACATTTTTTTTTTCGAAACAGTCGATGAACTCTGTAACGGACGATTGTTGTGTTGTTGTGGGTAGGTTT  
GAGTGTGTTTTGAGAAAATAAGATCCAAAATAAGAGCATGGAAGACAAAAAGAGCCATATTCTGACTCCGGCTCTGATTGA  
GCAGCCGAAGTAAGTAGCGACGGAAGCAACTATAAGAATTAAGAGAAGGCAGAGAAAATGAATTCCTATTTTTTAAA  
GATTAGAATACTTCCTTAGACTATTCTCTACTTTTTCTTTTCTTTTTGAAAAATGACATTCAAATTAACATAAAACATA  
CAAGGTATGGTTTTGAAACCATAAAGTTTTACAAAGTATAATGAGAAACAATCCTCATATTGAACTAAAGAATAACGTAA  
AAAATAGAACTCATGGACATAAGCTTAATAAAGCAAGATAAGAAAGAAGGAAACACTAGGGAGTGTGGTATTCTCGG  
CCTCGACGACCTTTCTCTCGTATTTTGGTCCAATCCATATCTTGGTATTTTTGACTTGGTTTTATTGATCTTTCACCTCATGA  
CATGTTGAGATTTGCGGTAGCATCACTCATTAAACCCATCTCCAACATCATGAACATTGAATTGCTCAATATCATTGTGAAA  
AGGGCTGCCATGCGTAGGTGTGTACATAAATGCCAATGAATTGCTTCCTGATTCCAAACTGGTCTAGGAAACAATAATAT  
GAGATGGAATTTCTTCCATAATAGTTGGTTCAGCTGGAGCAGTACCTGCTAATGGTGATGTAGTGAATTGAGAGTTGGGG  
CCAATGGCTACTGTTCTCTACTTTTTCCAAATTAACGAAACTGTAAACCTTTTTTTTTTAAACACTGATGATTCTATTA AAC  
ATGAAACAGACTACAAGAGCGGGGCGATGAACGATCTTGGAATACAACGTCCAGCGGACAACAACACAAAGTCCCAC  
CAAATTAAGCCCACAAGTGGGAGACTACATGAAAGACGTACATAAACGACAAACACTGACCCAAAAATATAATTTATA  
AAAAAATAAACAACACACAAACACTGACGTCACTATTCCATACGCCTAAGATTTCTCTCACCCCTATAAATAGCAC  
TCCTTTCTCCAGTTACATGACCACTATATTTATTTATATACCTCAGAAGCCCTTAAACGGATCTTTCATTTCCACTACTATAT  
ATATATATATATACAAATAAAGATAA **ATG**