

Supplementary Table S1 Primers for cloning & validation of expression elements.

Primer Name	Sequence (5'-3')
1304-mCherry-F	CTCTTCATCCCCCTCTCAACATGGTGAGCAAGGGCGAGGA
1304-mCherry-R	CAGTAACGTTAAGTGGATCCTCACTTGTACAGCTCGTCCA
PglaA1-F	GTTCCCAGCGTCCAAGGAAATC
PglaA1-R	TTTTGGCAGACCTGTTGAAG
TglaA1-F	GCGGTCCCGGTATCAGCAAG
TglaA1-R	CCACCATCGACGAAGGTTGG
PglaA2-F	CGTCCTCGCCCTCAAGTAC
PglaA2-R	CGCAGCCCGTCAGAGATCAA
TglaA2-F	GGGGTTCCGAGTCCCTCGTG
TglaA2-R	CAATAGCTGATGCGCCCGG
TglaA2-F	GGGGTTCCGAGTCCCTCGTG
TglaA2-R	CAATAGCTGATGCGCCCGG
Pgpd2-F	CTACTTCCACAGAATCGCG
Pgpd2-R	TGTGTATATTGGTAGGAATC
Tgpd2-F	GCGGAGGCAGATTGCGGGTG
Tgpd2-R	CATAGCGTCCCGTCTTCCA
PGltpC-F	CGCTATCCTTGACTAGCACC
PGltpC-R	CGCAATGGTTGATTGGATGC
TGltprC-F	GAATTGCAAACCTGTGTGTA
TGltprC-R	AGTTGGACTTATGCTGAGAC
PsdhB-F	TAAATCTGCTCTTCCCGATT
PsdhB-R	AGTGGTCGACGAAGGAGAGG
TsdhB-F	ATGAGCGGGTCAGAGAGTCC
TsdhB-R	TGCTCTATGTCTTGCCTTGT
Ptef1-F	CGAAAGGAATCGGTGAGCGA
Ptef1-R	TTTTGATATGAATCTGTAAAG
Ttef1-F	ACGACTTAGACGCGGTCTCTC
Ttef1-R	CAGCACGCCTTCGTTTCGC
Pras-F	GTAGTAGCTGTGAGGACAGC
Pras-R	GGGAGCAAGAGCAAGATAATGG
Tras-F	CATTCTCCGTCCCGGATTTTATC
Tras-R	GCTGCGACTCGGGACCTG
PglaA1 HA-F	ACAAGGCAAGACATAGAGCAGTTCCCAGCGTCCAAGGAAATC
TglaA1 HA-R	GGGCGAATTGAATTTAGCCCACCATCGACGAAGGTTGG
PglaA2 HA-F	ACAAGGCAAGACATAGAGCACGTCTCTGCCCCTCAAGTAC
TglaA2 HA-R	GGGCGAATTGAATTTAGCCAATAGCTGATGCGCCCGG
Pgpd2 HA-F	ACAAGGCAAGACATAGAGCACTACTTCCACAGAATCGCG
Tgpd2 HA-R	GGGCGAATTGAATTTAGCCATAGCGTCCCGTCTTCCA
PGltpC HA-F	ACAAGGCAAGACATAGAGCACGCTATCCTTGACTAGCACC
TGltprC HA-R	GGGCGAATTGAATTTAGCAGTTGGACTTATGCTGAGAC
PsdhB HA-F	ACAAGGCAAGACATAGAGCATAAAATCTGCTCTTCCCGATT
TsdhB HA-R	GGGCGAATTGAATTTAGCTGCTCTATGTCTTGCCTTGT
Ptef1 HA-F	ACAAGGCAAGACATAGAGCACGAAAGGAATCGGTGAGCGA
Ttef1 HA-R	GGGCGAATTGAATTTAGCCAGCACGCCTTCGTTTCGC
pras HA-F	ACAAGGCAAGACATAGAGCAGTAGTAGCTGTGAGGACAGC
Tras HA-R	GGGCGAATTGAATTTAGCGCTGCGACTCGGGACCTG
gla1-mCherry-F	CAACAGGTCTGCCAAAAATGGTGAGCAAGGGCGAGGA
gla1-mCherry-R	CTTGCTGATACCGGGACCGCTACTTGTACAGCTCGTCCATGC
gla2-mCherry-F	TTGATCTCTGACGGGCTGCGATGGTGAGCAAGGGCGAGGA
gla2-mCherry-R	CACGAGGGACTCGGAACCCCTACTTGTACAGCTCGTCCATGC
gpd-mCherry-F	CTCTTCATCCCCCTCTCAACATGGTGAGCAAGGGCGAGGA
gpd-mCherry-F	CAGTAACGTTAAGTGGATCCCTACTTGTACAGCTCGTCCATGC
gpd2-mCherry-F	GATTCTACCAATATACACAATGGTGAGCAAGGGCGAGGA
gpd2-mCherry-R	GCAATCTGCCTCCGCCTACTTGTACAGCTCGTCCATGC
trpc-mCherry-F	GCATCCAATCAACCATTGCGATGGTGAGCAAGGGCGAGGA
trpc-mCherry-R	CACAAGTTTGCAATTCTACTTGTACAGCTCGTCCATGC
tef1-mCherry-F	TTACAGATTCATATCAAAACCCCGGGATGGTGAGCAAGGGCGAGGA
tef1-mCherry-R	GAGACCGCGTCTAAGTCGTGCGGCCGCCTACTTGTACAGCTCGTCCATGC
ras-mCherry-F	ATTATCTTGCTCTTGCTCCCATGGTGAGCAAGGGCGAGGA
ras-mCherry-R	AAATCCGGGACGGAAGAATGCTACTTGTACAGCTCGTCCATGC
sdhb-mCherry-F	CTCCTTCGTCGACCACTATGGTGAGCAAGGGCGAGGA
sdhb-mCherry-R	CTCTCTGACCCGCTCATCTACTTGTACAGCTCGTCCATGC
qpercmCherry-F	ACGGCGAGTTCATCTACAAG
qpercmCherry-R	TGATGTTGACGTTGTAGGCG