

Table S2. Primers employed for expression analysis using quantitative RT-PCR.

Pea gene accession numbers are provided when specific pea gene sequences were available. If pea genes were unknown, degenerated primers were designed along at least two legume species sequences. The gene accession numbers of the legume homologs are listed.

Protein and Gene	Pea accessions (bold) or accessions of legume homologs	Primer sequences
Adenosine 5'-phosphosulfate reductase (<i>APR</i>)	AY166631	For: 5'-TCACAAGGATACATTTCCATTGGATG-3' Rev: 5'-CTTCCCACCACCATCTACCTTCTCTC-3'
L-Asparaginase (<i>ASNase</i>)	<i>Glycine max</i> (AY096000) <i>Arachis hypogaea</i> (DQ889570) <i>Phaseolus vulgaris</i> (DQ300284)	For: 5'-GTYATGGAHAARTCYCCDCATTCTTA-3' Rev: 5'-AMCARGATTGYDTTTCYTCCTTTGC-3'
Asparagine synthetase 1 (<i>AS1</i>)	X52179	For: 5'-CTGTCACTGCTAGATACCTTGCTGGT-3' Rev: 5'-GAGACATCAGAAACATAGGTGTTGCA-3'
Convicilin (<i>Cvc</i>)	X06398	For: 5'-TTAGAAGAGCAAGAGAAAAACACAA-3' Rev: 5'-GAAAGGTTCAAATTCAGAGGGTAAGC-3'
Cysteine synthase/OAS thiol-lyase (<i>OASTL</i>)	<i>Cicer arietinum</i> (AJ006024) <i>Glycine max</i> (EF584897) <i>Glycine max</i> (AF452451) <i>Trifolium subterraneum</i> (EF193210) <i>Vicia faba</i> (EF193211)	For: 5'-ATGAAACCACHGGTCCAGAGATATGG-3' Rev: 5'-CCAGCACCAATCCCTTGAATCTTGTG-3'
Glutamate synthase-ferredoxin dependent [<i>GOGAT</i> (Fd)]	<i>Glycine max</i> (AF039851) <i>Medicago truncatula</i> (AC147961) <i>Securigera parviflora</i> (AY278214)	For: 5'-GCTGTCAGAACTCACTTGCTGAAGC-3' Rev: 5'-CCTCRTCAAGAATGTAAGCCAACCCT-3'
Glutamate synthase-NADH dependent [<i>GOGAT</i> (NADH)]	<i>Phaseolus vulgaris</i> (AF314925) <i>Medicago sativa</i> (L37606)	For: 5'-CACAGATTGCATWGGAAACATCCATTC-3' Rev: 5'-CCATTTTCATCTCCCAMAAACCTCTTAG-3'
Glutamine synthetase 1, cytosolic (<i>GS1</i>)	M20663	For: 5'-AATTGAGAAGCTCGGGAAGAGGCTGC-3' Rev: 5'-CTGTTTCGTGTTCCCTGTCAATCTG-3'
Glutamine synthetase 2, chloroplastic (<i>GS2</i>)	M20664	For: 5'-GAAAATGGCACCATCAATAGGGTAGAG-3' Rev: 5'-AGGGATGCGAAACAGGCTTGTATATG-3'
Glutamine synthetase 3, cytosolic (<i>GS3</i>)	U28925	For: 5'-GTTTCATTTGACCCAAAGCCTATTCC-3' Rev: 5'-TCCATAAGCTGCAATGTGTTCTTAT-3'
Homocysteine S-methyltransferase (<i>HMT</i>)	<i>Astragalus bisulcatus</i> (AJ131433) <i>Medicago sativa</i> (DQ873667)	For: 5'-GAAGAAGGTSAAACYCTGCTTMGRAG-3' Rev: 5'-CCATCAGCYAAATARGCRCCATAGC-3'
Legumin A (<i>LegA</i>)	X02982	For: 5'-CAAAGGAGAAGAGGAGAGGAGGAAGA-3' Rev: 5'-CTACCAGCTTCAGGGTTGTAGATGC-3'
Legumin B (<i>LegB</i>)	M16903	For: 5'-GGTTAGCCACGTACAACAGGTGCTTA-3' Rev: 5'-GATTGAGATTGCGACTGAGGGTGAAC-3'
Vicilin (<i>Vic</i>)	Y00722	For: 5'-CAAAGAAATGAAAACCAACAAGAGCAG-3' Rev: 5'-GCATTAATACCAAACCAAGCAAATC-3'
Methionine S-methyltransferase (<i>MMT</i>)	<i>Glycine max</i> (AK287323) <i>Medicago truncatula</i> (AC148097)	For: 5'-GGTTTGGAATTTGACWGTRAAGGCTG-3' Rev: 5'-CCTCCRAGMAGAGACACASAGAAYG-3'
Amino acid permease 1 (<i>AAP1</i>)	AY956395	For: 5'-GCTGGAACCATTACTGGAGTAAATGA-3' Rev: 5'-GACTCTGACGGTGGTGGTCTTTTAC-3'
Amino acid permease 2 (<i>AAP2</i>)	AY956396	For: 5'-AGCAAGCCACGAGGATAAGTATAGGC-3' Rev: 5'-CAGTGAGTAAGTTTCTGGCGATGTG-3'
Cationic amino acid transporter 6 (<i>CAT6</i>)	Partial clone (see <i>SI</i> Materials and Methods)	For: 5'-GGTTCGGAGTGTTCGCTGTTACG-3' Rev: 5'-TGAAACTTTGGTCCACTCTTTCTTTGA-3'
Sulfate transporter (<i>SST1</i>)	<i>Glycine max</i> (AK244423) <i>Lotus japonica</i> (AP009831)	For: 5'-CGGAAGGAATAGCMATWGGAAAGAAGC-3' Rev: 5'-ATAGCTGAWAGDGAACAAGWGGKGTG-3'
Sulfate transporter (<i>ST</i>)	<i>Lotus japonica</i> (AP006424) <i>Medicago truncatula</i> (AC195567) <i>Stylosanthes hamate</i> (X82255) <i>Stylosanthes hamate</i> (X82256)	For: 5'-GCTTGGHTTCTTGATWGAYTTCCTATC-3' Rev: 5'-CCWAGHAGACCTTTAAGYTGTGSAG-3'
Elongation factor 1 α (<i>EF1α</i>)	X96555	For: 5'-CAGTGGGACGTGTTGAACTGGTGT-3' Rev: 5'-ATCGAACATTGTCTCCTGGAAGAGCC-3'
Ubiquitin (<i>PUB</i>)	L81139, L81140, L81141, L81142	For: 5'-GGCAAAAATACAGGACAAGGAGGGAA-3' Rev: 5'-CGCAAMACHAGGTGRAGAGTRGACTC-3'