

**Table S5.** Primer sequences used for qRT-PCR reactions. Actin was used as endogenous control. Primers were designed on NGS-derived sequences mapped to the reference genome.

Gene ID	Forward primer (5'-3')	Reverse primer (5'-3')	Amplicon length (bp)
White lupin			
XM_019572931.1	gatgatggaaccttggaacttatg	gccaaagcattcacttcatctg	122
XM_019559246.1	ggggactggtgcgaagaggttcc	caccacctcagcttcggcgac	121
XM_019588469.1	ctatgtcacatttttaggtacc	cttgagggtgttttgatgc	111
XM_019559290.1	caccagagagggttaactttgatc	cttgatgtgtgactttggg	122
XM_019562376.1	gaacacagaatcaaggtccg	gtgaagtctggacttccaaattc	119
XR_002105784.1	caaagcgacttctcgtgttac	gactcctgcatggcctccc	122
XM_019607520.1	cagaagagaagcaaagaggag	cctatcagaacagatgggtgg	121
XM_019570378.1	cgcattagagagaagtatccag	caaactgaccaacgtcaaatcag	124
XM_019585272.1 (actin)	ctcctgctatgtatgttgctatac	gagagcataaccttcatagatagg	128
Andean lupin			
XM_019568374.1	gccaccaaccgcaattttcaac	cttccatcatcttttggattg	125
XM_019591458.1	ggcaagggtatgctatagggattac	gtgacccggtggaaaagactcg	130
XM_019588469.1	ctatgtcacatttttaggcacc	cttgagggttttctggatgc	111
XR_002105261.1	caccagagagggttaactttgatc	cctggatgtgtgacttcggg	122
XR_002105784.1	caaagcgacttctcgtgttac	gactcctgcatgacctccc	122
XM_019562376.1	gaacacagaatcaaggtccg	gtgaagtctggacttccaaattc	119
XM_019570378.1	ggcttccgcattcgagag	caaactgaccaactgtcaaatccg	131
XM_019608702.1	ctagtatttgggtgcaccttc	ggcatagttttcttcttactttgg	165
XM_019585272.1 (actin)	ctccggctatgtatgttgcc	gagagcataaccttcgtagatagg	128