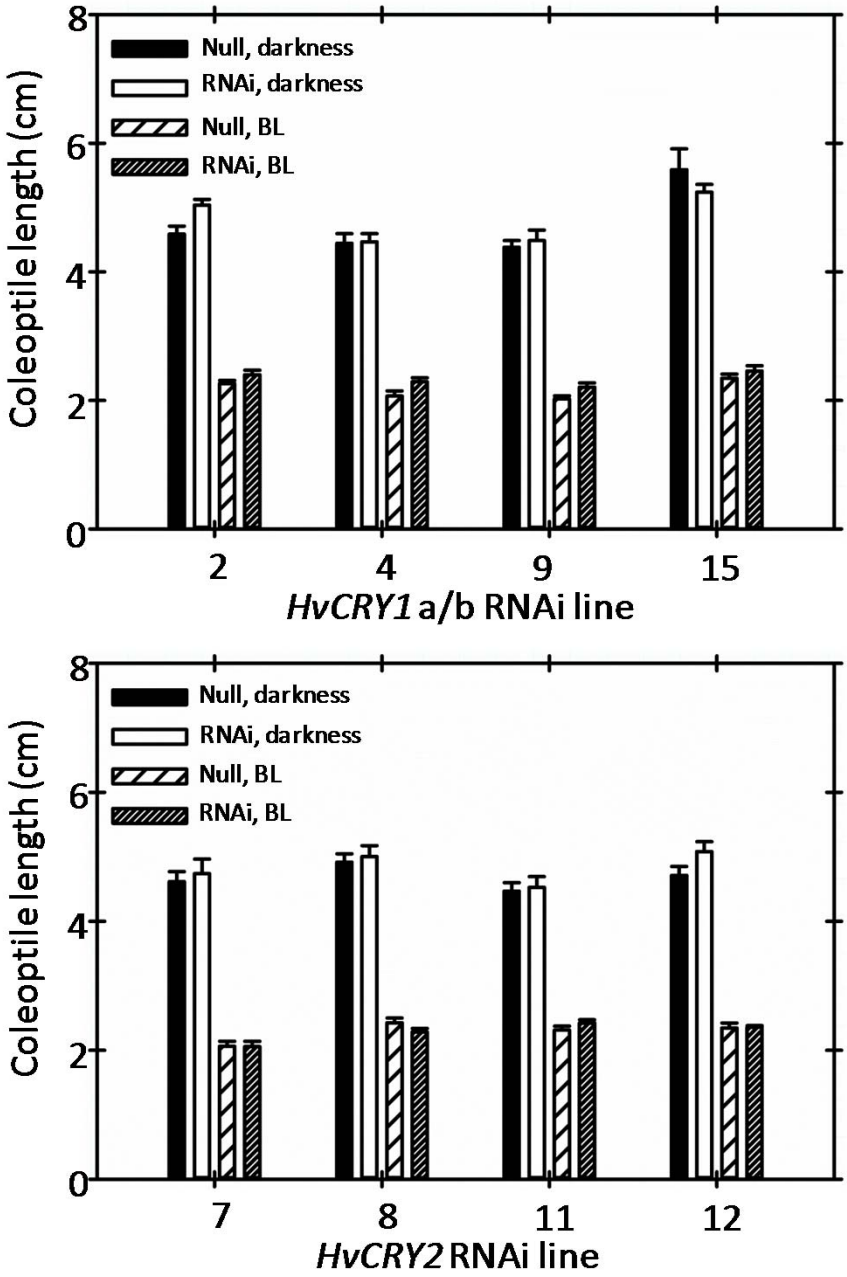

Supplemental Figure 1. **Coleoptile lengths of RNAi *CRY1a/b* and *CRY2* seedlings**. Coleoptiles of 2-week-old seedlings from *CRY1a/b* or *CRY2* RNAi or null segregant control lines grown under BL (23 µmol·m^{-2}·sec^{-1}) or in darkness were measured. Each point is the average of nine measurements ± S.E.

Supplemental Table 1. Primers used for construction of Hv-*CRY1a/b* and Hv-*CRY2* RNAi hairpins.

Product	Forward primer (5'-3')	Reverse primer (5'-3')
CRY1hairpin BamHI/SmaI	AA**GGATCC**GAGGATCAATTCAGGTGACTTGA	AA**CCCGGG**CTCTCGCAGGCCGATGGAG
CRY1hairpin KpnI/SpeI	AA**GGTACC**GAGGATCAATTCAGGTGACTTGA	AA**ACTAGT**CTCTCGCAGGCCGATGGAG
CRY2hairpin BamHI/SmaI	AA**GGATCC**AAGGAACTGACGGGCTTAAATAA	AA**CCCGGG**CAGTCTTCACGATCACCCTTG
CRY2hairpin KpnI/SpeI	AA**GGTACC**AAGGAACTGACGGGCTTAAATAA	AA**ACTAGT**CAGTCTTCACGATCACCCTTG

Bold letters indicate restriction sites

Supplemental Table 2. Sequences used in the Hv-*CRY1a/b* and Hv-*CRY2* RNAi hairpin constructs.

Sequence used for the hairpin against Hv-*CRY1a/b*
GAGGATCAATTCAGGTGACTTGACGAGGTGCTCATCAGACGACCTGATTTTCGAAGACGACTCG
GAGAGGGGGAGCAACGCGCTGCTCGCACGGGCGTGGTCGCCGGGGTGGCAGAACGCCGACAA
GGCTTTCACAGCCTTCATCAACGGCCCGCTCATCGACTACTCCGTCAACCGCAAGAAGGCCGACA
GTGCAAACACCTCACTGCTCTCCCCTTACCTGCACTTTGGCGAGCTCAGCGTCCGCAAGGTCTTCC
ATCAAGTACGGATGAAGCAGCTAACATGGAGCAACGAGAGCAACCGTGACGGCGAGGAAGGCT
Sequence used for the hairpin against Hv-*CRY2*
AAGGAACTGACGGGCTTAAATAAACAGACCATTTGTGTTGATGTGATCAAGGCCTCAAAGATGG
AAGACACAGGCTCCATAGTAAATTCTCCGATATCAAGGAAAAGATCCAGCAGCGGGAGTGTGTT
TGATGTCCCATCTTGTTCGTCTTCAGTCGAAGTGCGCTCCCAGAATCAACGTCCTGGTGGTTATTT
TGTTGGGTCATCAAAATACATCCTGCAGAAAGCAGAGAGGAACTGTTTTGATAAGGCAGAAGAC
GATGACAGTGCCCACAGTGGTACAAACACCTCGAGAGCATCCAAGAGACCTGCCGCCTCACAAG

Supplemental Table 3. Primer sequences used for qRT-PCR.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')	Accession
Hv-*ACT*	GCCGTGCTTTCCCTCTATG	GCTTCTCCTTGATGTCCCTTA	AY145451
Hv-*ABA8'OH-1*	AGCACGGACCGTCAAAGTC	TGAGAATGCCTACGTAGTG	AK333121
Hv-*CIP8*	CGAGGGTTTCGTGTACACCTC	ACACACGGAGCACTCCTCTC	Barley1_18584
Hv-*CRY1a/b*	TCAGCCAGAGCCTCAAGCAC	GTCGTAGAGGTGGTTGAAGAAG	DQ201150
Hv-*CRY2*	AAGAGACCTGCCGCCTCACAA	CGAAACCGTTTCGTCCAGGTGT	DQ201156
Hv-*ELIP58*	TTCTCCGTAGCGTCGCTGCTG	AAAACCCACAGCGCTGCAATC	X15693
Hv-*ELIP90*	ATGAACGCCAACGCGGAACTCT	AGTACATGTTGTGTTATCCTGTC	X15692
Hv-*HY5*	AAGAAGAATTCGGAGCTGGAAG	TCTGTGCTATTGACCCTCACTT	Barley1_15369
Hv-*NCED1*	CCAGCACTAATCGATTCC	GAGAGTGGTGATGAGTAA	CD884104
Hv-*NCED2*	CATGGAAAGAGGAAGTTGC	GAAGCAAGTGTGAGCTAAC	CA731387