

Table 1 - Primers used for amplification of *Gryllus bimaculatus* opsins.

Please note that the degenerate primers include mismatches to the coding sequence.

Degenerate primers		Gene-specific primers	
Label	Sequence (5'-3')	Label	Sequence (5'-3')
<i>UV_deg_s1</i>	ATWCCNGARCAYTGGC	<i>UV_s1</i>	GCGCGGGATGGAGCTC
<i>UV_deg_s2</i>	CCGATCTTYATHHTAYAAAYAG	<i>UV_s2</i>	AAGCAATCAACAGCAAAAATC
<i>UV_deg_s3</i> , <i>Blue_deg_s3</i> , <i>GreenA_deg_s3</i> , <i>GreenB_deg_s3</i>	GGCCGTTTTYGTNCCNGARGG	<i>UV_s3</i>	GGCATATGCTTTCTGTTTTG
<i>UV_deg_as1</i> , <i>Blue_deg_as1</i> , <i>GreenA_deg_as1</i>	ACGTTTCATYTTYTTNGCYTG	<i>UV_as1</i>	CGAAGAGACTTGGCTGAAC
<i>UV_deg_as2</i> , <i>Blue_deg_as4</i> , <i>GreenB_deg_as3</i>	ATCACGCCRTANGGNGTCCA	<i>UV_as2</i>	GCTCCTATGCCTGAAATTG
<i>Blue_deg_s1</i>	CAAYGGNATCGTCCTNTGGAT	<i>Blue_s1</i>	CCCTCGAGACCAGCATAG
<i>Blue_deg_s2</i>	CGTACACCNTCNAAYATGTT	<i>Blue_s2</i>	ATCAAGATGCTGAACAAAAATC
<i>Blue_deg_s4</i>	CAGGCNAARAARATGAAYG	<i>Blue_s3</i>	GGTAGCATTCACAATTTTCTTC
<i>Blue_deg_s5</i>	ACGCCGTAYGGNGTNATG	<i>Blue_as1</i>	CAAGCAAGGCCTGGTTTAC
<i>Blue_deg_as2</i>	AGTGAYTTNACRTTCATYTT	<i>Blue_as2</i>	CCTACTTCCCAACCAATTG
<i>Blue_deg_as3</i>	AGCGTANGGNGTCCANG	<i>Blue_as3</i>	CGGATTTCAACAGATTTTTTG
<i>GreenA_deg_s1</i>	GTGGCTCNATHHTGGACNATG	<i>Blue_as4</i>	ACCGACTTTATTTTCTACAATTG
<i>GreenA_deg_s2</i> , <i>GreenB_deg_s2</i>	TGCTAYTAYGARACNTGGG	<i>GreenA_s1</i>	CCCCACAGTCAGCCAAAG
<i>GreenA_deg_s4</i>	GTCCCTGARGGNAAYATGAC	<i>GreenA_s2</i>	CTACTTGCCCCTTTTACG
<i>GreenA_deg_as2</i> , <i>GreenB_deg_as1</i>	AGAGAGGCNACRTTCATYTTYTT	<i>GreenA_s3</i>	CGAACAGGCAAAGAAAATG
<i>GreenA_deg_as3</i> , <i>GreenB_deg_as2</i>	AACCACAGNGADATNGTCAT	<i>GreenA_as1</i>	GCACATCAGTTCTCCTAATACC
<i>GreenB_deg_s1</i>	ATGAACCCNCTNTGGCAYGG	<i>GreenA_as2</i>	GCTGTCATATTTCTTCTGG
		<i>GreenA_as3</i>	ACACCGAGTACACCAAAATG
		<i>GreenA_as4</i>	GTTTCAGGAAAGTACATAAAAAC
		<i>GreenB_s1</i>	GCAGCAGAACCCGAAGTAG
		<i>GreenB_s2</i>	GCGCCTCTTTCACCATC
		<i>GreenB_s3</i>	GCGAGCAAGCCAAGAAG
		<i>GreenB_as1</i>	CCCAGCACCGAGATCAC
		<i>GreenB_as2</i>	GAAGGCCAAGTTGACTACG
		<i>GreenB_as3</i>	ATAAATTAGAGAGAGGGTGCTG