

Table 2 - References for data presented in Figures 2 and S1.

Accession numbers of sequences retrieved from GenBank, references on opsin expression and the wavelength of peak sensitivity (λ_{\max}) of the respective visual pigment. For opsin sequences of *Acyrtosiphon pisum* (pea aphid) see Additional file 3.

Scientific name	Common name	Accession numbers	References on gene expression and λ_{\max}
<i>Vanessa cardui</i>	painted lady	VanG: AY613986 VanB: AY613987 VanUV: AF414074	[1]
<i>Drosophila melanogaster</i>	fruit fly	Rh1: K02315 Rh2: M12896 Rh3: M17718 Rh4: M17730 Rh5: U67905 Rh6: Z86118 Rh7: NM_079311	[2-15]
<i>Apis mellifera</i>	honey bee	AmLop1: U26026 AmLop2: BK005515 AmBLop: AF004168 AmUVop: AF004169 Pteropsin: BK005510	[16-21]
<i>Tribolium castaneum</i>	red flour beetle	Green: NM_001162519 UV: XM_965251	[22]
<i>Megoura viciae</i>	vetch aphid	LW: AF189714 UV_A: AF1897145	[23]
<i>Schistocerca gregaria</i>	desert locust	Lo1: X80071 Lo2: X80072	[24]
<i>Gryllus bimaculatus</i>	two-spotted cricket	GreenA: HM363620 GreenB: HM363621 Blue: HM363622 UV: HM363623	[25] and this manuscript
<i>Dianemobius nigrofasciatus</i>	band-legged ground cricket	LWop: FJ232921 BLop: AB291232 UVop: AB458852	
<i>Sphodromantis spec.</i>	praying mantis	Opsin: X71665	
<i>Triops granarius</i>	tadpole shrimp	RhA: AB293428 RhB: AB293429 RhC: AB293430 RhD: AB293431 RhE: AB293432	
<i>Hasarius adansoni</i>	Adanson's house jumper	Rh1: AB251846 Rh2: AB251847 Rh3: AB251848	
<i>Limulus polyphemus</i>	horseshoe crab	Opsin1: L03781 Opsin2: L03782 Opsin5: FJ791252	[26-30]
<i>Euprymna scolopes</i>	Hawaiian bobtail squid	Eye opsin: EU34773	
<i>Danio rerio</i>	zebrafish	MelanopsinA: NM_001128761	

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