

Supplemental Table S1

Species (as given in the source reference)	Opsin class	Lambda-max-A1	Lambda-max-A2	Supplemental Reference
<i>Danio rerio</i>	SWS2	411	412	1
<i>Danio rerio</i>	RH2	482	504	1
<i>Danio rerio</i>	RH1	503	527	1
<i>Danio rerio</i>	LWS	565	613	1
<i>Carassius auratus</i>	SWS1	370.1	381.9	2
<i>Carassius auratus</i>	SWS2	447.2	454.1	2
<i>Carassius auratus</i>	RH1	502.7	522.2	2
<i>Carassius auratus</i>	RH2	515.9	534.9	2
<i>Carassius auratus</i>	LWS	565.6	617.5	2
<i>Lithobates pipiens</i>	SWS2	432	438	3
<i>Lithobates pipiens</i>	RH1	502	527	3
<i>Lithobates pipiens</i>	LWS	575	620	3
<i>Bos taurus</i>	RH1	498	520	4
<i>Gallus gallus</i>	LWS	562	613	5
<i>Petromyzon marinus</i>	RH1	497	518	6,7
<i>Dorosoma cepedianum</i>	RH1	500	521	7,8
<i>Alosa pseudoharengus</i>	RH1	504	528	7,9
<i>Oncorhynchus gorbuscha</i>	RH1	503	527	7,10
<i>Coregonus sp.</i>	RH1	509	536	7,11
<i>Osteoglossum bicirrhosum</i>	RH1	503	527	7,9
<i>Xenomystus migri</i>	RH1	503	527	7,9
<i>Gasteropelecus levis</i>	RH1	503	527	7,9
<i>Arnoldichthys spilopterus</i>	RH1	503	527	7,9
<i>Abramites microcephalus</i>	RH1	503	527	7,9
<i>Hemiodus semitaeniatus</i>	RH1	503	527	7,9
<i>Scardinius erythrophthalmis</i>	RH1	507	535	7,12
<i>Pimephales notatus</i>	RH1	505	535	7,8
<i>Notemigonus crysoleucas auratus</i>	RH1	502	529	7,8
<i>Notemigonus crysoleucas boscii</i>	RH1	504	532	7,8
<i>Hybopsis biguttata</i>	RH1	505	535	7,8
<i>Alburnus lucidus</i>	RH1	510	533	7,13
<i>Barbus fasciolatus</i>	RH1	500	522	7,9
<i>Jordanella floridae</i>	RH1	500	522	7,9
<i>Belonesox belizanus</i>	RH1	498	521	7,8
<i>Morone labrax</i>	RH1	502	534	7,14
<i>Lates nilotica</i>	RH1	499	520	7
<i>Oblada sp.</i>	RH1	501	522	7,14
<i>Aequidens portalegrensis</i>	RH1	500	522	7,9
<i>Symphysodon aequifasciata</i>	RH1	497	516	7,9
<i>Tilapia nilotica</i>	RH1	503	527	7,9
<i>Tilapia melanopleura</i>	RH1	499	520	7

<i>Labrus merula</i>	RH1	492	510	15
<i>Helostoma temmincki</i>	RH1	500	522	7,9
<i>Mugil cephalus</i>	RH1	499	522	7,8
<i>Gasterosteus aculeatus</i>	RH1	501	522	7,16
<i>Sphaeroides annulatus</i>	RH1	500	522	7,17
<i>Tetraodon schoutedeni</i>	RH1	503	527	7,9
<i>Xenopus laevis</i>	RH1	502	523	7,18
<i>Rana temporaria</i>	RH1	502	523	7,19
<i>Aristomias scintillans</i>	RH1	526	551	20
<i>Aristomias grimaldii</i>	RH1	517	552	21
<i>Malacosteus niger</i>	RH1	522	548	21
<i>Pachystomias microdon</i>	RH1	515	543	21
<i>Oncorhynchus mykiss</i>	SWS2	434	441	22
<i>Ambystoma tigrinum</i>	LWS	562	620	23
<i>Ambystoma tigrinum</i>	RH1	502	521	23
<i>Ambystoma tigrinum</i>	SWS2	432	440	23

Supplemental References

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