

This work is on a Creative Commons Attribution 4.0 International (CC BY 4.0) license, <https://creativecommons.org/licenses/by/4.0/>. Access to this work was provided by the University of Maryland, Baltimore County (UMBC) ScholarWorks@UMBC digital repository on the Maryland Shared Open Access (MD-SOAR) platform.

Please provide feedback

Please support the ScholarWorks@UMBC repository by emailing scholarworks-group@umbc.edu and telling us what having access to this work means to you and why it's important to you. Thank you.

Opsin	Common name	Scientific name	Accession number
Rod opsin (Rh1):			
	zebrafish	<i>Danio rerio</i>	NM_131084
	mouse	<i>Mus musculus</i>	NM_145383
	human	<i>Homo sapiens</i>	NM_000539
	Nile tilapia	<i>Oreochromis niloticus</i>	AY775108
	Arctic lamprey	<i>Lethenteron japonicum</i>	M63632
Rod opsin-like 2 (Rh2):			
	zebrafish		NM131253 (Rh2.1) NM182891 (Rh2.2) NM182892 (Rh2.3) NM131254 (Rh2.4)
	Nile tilapia		AF247124
Short-wavelength sensitive-1 (SWS1):			
	human		NM_001708
	mouse		NM_007538
	zebrafish		NM_131319
	Nile tilapia		XM_003448756
	pouched lamprey	<i>Geotria australis</i>	AY366495
Short-wavelength sensitive-2 (SWS2):			
	zebrafish		NM_131192
	Nile tilapia		AF247116 (SWS2A) AF247120 (SWS2B)
Long-wavelength sensitive (LWS):			
	Nile tilapia		XM_003442629
	zebrafish		KT008400 (LWS1) KT008401 (LWS2)
	mouse		AF190672
	human		NM_000513 (LWS-MW) NM_020061 (LWS-LW)
	pouched lamprey		AY366491
Retinal pigment epithelium-derived rhodopsin (RRh):			
	human		NM_006583
	mouse		NM_009102
	Nile tilapia		XM_003458164
	zebrafish		NM_001004654

Melanopsin (Opn4):

elephant shark	<i>Callorhinchus milii</i>	NM_001292428 (Opn4m1) NM_001292116 (Opn4m2) NM_001292471 (Opn4x-long)
whale shark	<i>Rhincodon typus</i>	XM_020523467
mouse		NM_013887
human		NM_033282
salmon	<i>Salmo salar</i>	XM_014153974
chicken	<i>Gallus gallus</i>	NM_001044653
frog	<i>Xenopus laevis</i>	XM_018254470
alligator	<i>Alligator mississippiensis</i>	XM_019488093
small-eared galago	<i>Otolemur garnettii</i>	XM_003803012
thirteen-lined ground squirrel	<i>Ictidomys tridecemlineatus</i>	XM_021720398

S4. Table. Accession numbers. GenBank accession numbers used to generate the tree shown in Figure 2 and in Discussion.