

1	Nessopsins	78	PCMYSGLC	KNPLY	YYFN	ER	312
2	Lancopsins	16	PCFRERES	KNPEY	XYFL	PA	311
3	Melanopsins M	342	DCYDRYETC	KNPII	YYHP	KK	310
4	Melanopsins X	175	DCYDRYETC	KNPII	YYHP	KK	310
5	Melanopsins L	4	DCYDRYETC	KNPII	VYFH	PK	306
6	LWS-Facetopsins	599	DCYDRYETC	KNPII	YYYH	PK	306
7	SWS-Facetopsins	319	DCYDRYETC	KDPW	YYYH	PB	305
8	UV-Facetopsins	126	DCYDRYETC	KRP	Y	YFHP	304
9	Onychopsins	6	DCYPRYETC	KNPII	VY	YHP	304
10	Scallopsins	108	DCYDRYETC	KNPII	YYFH	PK	303
11	Parvopsins	11	DCYDRYETC	KNPII	YYFH	KK	303
12	Arthropopsins	65	DCYERYETC	KRP	Y	YFHP	302
13	Dumopsins	8	DCYDRYETC	KNPEI	YFHP	PK	302
14	Stranopsins B	19	BCYERETC	KNPEI	YEN	KK	304
15	Stranopsins A	21	DCEDRYETC	KNPII	YFN	KQ	305
16	Stranopsins C	4	NCYPRYETC	KNPII	YYFH	PK	305
17	Cnidopsins	95	DCYERYETC	KNPII	Y	YK	306
18	Annopsins	25	DCYERYETC	KNPEI	YFN	KQ	313
19	TMT2-Opsins	129	DCYPRYETC	KNPII	YEN	KQ	310
20	TMT3-Opsins	138	DCYERYETC	KNPYI	YENN	Q	311
21	TMT1-Opsins	164	DCYERYETC	KNPYI	YFN	KQ	312
22	TMTL-Opsins	15	DCYERYETC	KNPYI	YFN	Q	312
23	Encephalopsin	122	DCDERYELC	KNPYI	YFS	RK	312
24	Livopsins	10	DCYERETC	KNPII	YFN	KQ	312
25	SWS1-Okopsins	138	GCEERYECCK	KNPII	YFN	KQ	312
26	RHO1-Okopsins	213	GCEERYECCK	KNPYI	YFN	KQ	312
27	RHO2-Okopsins	135	GCEERYECCK	KNPII	YFN	KQ	312
28	SWS2-Okopsins	144	NCEERYECCK	KNPYI	YFN	KQ	312
29	Pinopsins	65	GCEERYETC	KNPII	YFN	KQ	312
30	LWS-Okopsins	113	DCEERWHTC	KNPII	YFN	RQ	312
31	Cionopsins	2	DCEERYETC	KNPTI	YFN	KQ	312
32	Va-Opsins	142	DCEERYETC	KNPII	YFN	KQ	312
33	Parapinopsins	129	DCEERYETC	KNPII	YFN	RQ	312
34	Parietopsins	65	DCQERYETC	KNPII	YFN	KQ	312
35	Pteropsins	202	DCYERYETC	KNPTI	YFN	IQ	312
36	Qoshopsins (Opn7/Opn8)	207	DCYVCEETC	KNPEY	YFK	PN	312
37	Fibopsins (Opn8/Opn10)	185	DCYYRELC	KNPEI	Y	SK	312
38	Euthropsins (Opn5/Opn9)	104	DCYDRYETC	KNPII	Y	DSK	312
39	Fiskopsins (Opn9/Opn10)	175	DCYDRCEETC	KNPEI	YFN	BE	312
40	Tremopsins (Opn6)	160	DCDTRYRTC	KNPII	YFS	SK	312
41	Kiropsins	25	DCYERYETC	KNPEY	YYFN	KK	312
42	Go-opsins	48	DCYYRYETC	KNPII	YFN	KK	312
43	Varropsins	18	DCYPBYETC	KNPEI	YFN	PK	312
44	Gluopsins	36	SCFERYDICE	P	Y	Y	312
45	Peropsins	122	DCYDRYDACK	KNPC	IYFN	KK	312
46	Astropsins	3	DCYERYETC	KNPEY	Y	SK	312
47	Retinochromes	26	NCYERYETC	KYP	Y	SK	312
48	RGR-opsins	172	DCHPRYETC	KN	AY	YNE	312
49	Nemopsins	4	LCYPRYETC	KNPII	YFN	PK	312
50	Outgroup	1139	DCYPRYETC	KNPII	YFN	PK	312