

1	SWS-Facetopsins	361	DCFDRIYETCKDPWVYYXHPB	312
2	UV-Facetopsins	130	DCYDRIYETCKRPFLYEHPR	311
3	LWS-Facetopsins	757	DCYDRIYETCKNPJYYYHPR	310
4	Onychopsins	7	DCYDRIYETCKNPJYYYHPR	313
5	Parvopsins	12	DCYDRIYETCKNPJYYFHK	306
6	Melanopsins X	164	DCYDRIYETCKNPFIYYHFK	305
7	Melanopsins M	290	DCYDRIYETCKNPJYYHPR	304
8	Melanopsins L	4	DCYDRIYETCKNPJYYFHPK	303
9	Lancopsins	18	RCFDRYETCKNPJYYFHPK	302
10	Scallopsins	113	DCYDRIYETCKNPJYYFHPK	296
11	Arthropopsins	74	DCYERYETCKRPJYYFHPK	187
12	Dumopsins	20	DCYDRIYETCKNPJYYFHPK	185
13	Stranopsins A	27	DCEDRIYETCKNPJYYFNKQ	181
14	Stranopsins B	23	BCYERYETCKNPJYYFNKQ	136
15	Stranopsins C	7	BCYERYETCKNPJYYFHK	135
16	Cnidopsins	133	DCXERYETCKNPJYYFHK	134
17	Parietopsins	57	DCQERYETCKNPJYYFNKQ	113
18	Parapinopsins	107	DCEERYETCKNPJYYFNKQ	110
19	Va-Opsins	122	DCEERYSTCKNPJYYFNKQ	83
20	Cionopsins	2	DCEERYETCKNPJYYFNKQ	
21	LWS-Okopsins	124	DCEERWHTCKNPJYYFNKQ	
22	RHO1-Okopsins	249	RCEERYECCKNPJYYFNKQ	
23	RHO2-Okopsins	120	GCEERYECCKNPJYYFNKQ	
24	SWS2-Okopsins	150	NCEERYECCKNPJYYFNKQ	
25	SWS1-Okopsins	142	GCEERYECCKNPJYYFNKQ	
26	Pinopsins	60	RCEERYETCKNPJYYFNKQ	
27	TMT3-Opsins	99	DCYERYETCKNPJYYFNKQ	
28	TMT2-Opsins	113	DCYERYETCKNPJYYFNKQ	
29	TMT1-Opsins	156	DCYERYETCKNPJYYFNKQ	
30	TMTL-Opsins	17	DCYERYETCKNPJYYFNKQ	
31	Encephalopsin	123	DCDERYELCKNPJYFSRK	
32	Livopsins	12	DCYBRSETCKNPJYYFNKQ	
33	Annopsins	25	DCYERYETCKNPFIYFNKQ	
34	Pteropsins	208	DCYERSEICKNPFIYFNKQ	
35	Nessopsins	82	RCSEMYSEICKNPJYYFNKQ	
36	RGR-opsins	162	DCHDRIYETCKNATFYNEK	
37	Nemopsins	5	LCYDRIYETCRNPFIYFNKQ	
38	Peropsins	125	DCYDRIYDACKNPCIYFNKK	
39	Astropsins	5	RCYDRIYELCKNPFIYFNKQ	
40	Retinochromes	33	NCYERYETCKNPFIYFNKQ	
41	Gluopsins	40	SCFERYDICEPYLSYDER	
42	Varropsins	6	DCYEQYETCKNPFIYFNBN	
43	Go-opsins	52	DCYRYETCKNPJYYFNKQ	
44	Tremopsins (Opn6)	155	DCDTRYRTCKNPFIYFSSK	
45	Kiropsins	25	DCNRYETCKNPJYYFNKQ	
46	Qoshopsins (Opn7/Opn8)	254	DCYVCSETCKNPJYYFKPN	
47	Fiskopsins (Opn9/Opn10)	145	DCYDRCEETCKNPFIYFNBE	
48	Euthropsins (Opn5/Opn6)	98	DCYDRIYETCKNPJYYFSSK	
49	Fibopsins (Opn8/Opn9)	165	DCYRYELCKNPFIYFNKQ	
50	Outgroup	1150	DCYDRIYETCKNPJYYFNKQ	