

1	Nessopsins	86	EAELPELMAKASVLYNPLYIYVLMNBEFRALILBLLBEE
2	Va-Opsins	149	LAAIPAFFSKTAAVYNPLIYVFMNKKQFRKCLIQMFEGG
3	RHO1-Okopsins	266	FMTIPAFFAKSSALYNPLIYIEMNKKQFRNCMLTTTCCG
4	RHO2-Okopsins	163	MAIPAFFSKSSALYNPLIYVLMNKKQFRNCMLTTTCCG
5	SWS2-Okopsins	161	LATIPSCFSKASTVYNPLYIYVLLNKKQFRSCMMKMLGMG
6	SWS1-Okopsins	159	LVTIPAFFSKSSSCVYNPLIYVFMNKKQFRACIMEIVF
7	Pinopsins	73	LASLPSEYFSKTATVYNPLIYVFMNKKQFRSCMLLMCCG
8	LWS-Okopsins	155	AAALPAYFAKSATVYNPLIYVFMNRQFRNCIMQLFG
9	Cionopsins	4	LGAOPAFFAKTATVYNPLIYVGLNKKQFRDGVVBMVFN
10	Parapinopsins	142	VATYPMYLAKSSTVYNPLIYIEMNKKQFRMYAYPELLCG
11	Parietopsins	71	YATMPMYFAKTSPVYNPLIYVFLSNKKQFRPSALEYLS
12	Annopsins	25	XAMSPAMFAKSSSYNPFYIYVGMNKKQFRBAFVVKVLE
13	TMT1-Opsins	185	ASIPSYLAKISTVYNPLIYVFMNKKQFRRCFBALLFC
14	TMT3-Opsins	151	ASVYPSTLAKISTVYNPLYIYVFLNNQFRRCFVAMK
15	TMT2-Opsins	141	ASVYPSTLAKSSTVINPLYIYVILMNKKQFRBCFLLFHC
16	TMTL-Opsins	17	AAVYPPELMAKSSTAVYNPLYIYVAMNNQFRBVFLLSC
17	Encephalopsin	144	VATVPEFFAKSSTAVYNPLYIYVFMNRKFRRCLLQLLCL
18	Livopsins	13	EATLPAMFAKSSCTVYNPLIYVFLNKKQFRPALVBLCCG
19	Pteropsins	225	EAYLPALFAKSSVYNPLYIYVGLNTQFRPAWKKKFF
20	Stranopsins A	41	EATLPAMFAKSSSYNPLYIYVAINKKQFRPAEYKFLPS
21	Stranopsins B	22	LSMPLPAMFAKSSYLWNPLYIYVFMNRNKKKFFKALF
22	Cnidopsins	133	EATLPAMFAKSSSYNPLYIYVFMNRNKKKFFRPAEYKFL
23	Stranopsins C	5	AITLPALFAKSSSYNPLYIYVGLKHKKKFRPAEYKFL
24	Arthropopsins	74	ATALPAFFAKTAYVYPPLYIYVGFSHPKFRPSYROYL
25	Dumopsins	26	XSVYPSTLAKISTVYNPLYIYVAFHHPKFRPAEYKFL
26	SWS-Facetopsins	369	XTMIPASFAKIVACIDPQYYAISHHPRYRPAELQKRPWL
27	UV-Facetopsins	143	ESMIPALFCKIAACIDPQYYAISHHPKFRPAEYKFL
28	LWS-Facetopsins	734	XTIWGSLFAKANAVYNPLYIYVAFSHPKYRAALKKKFL
29	Onychopsins	6	VSQLPAYFAKIAAVYNPLYIYVAFSHPKYRAALBKFFFL
30	Parvopsins	12	GQYYPVYFAKSSALWNPLYIYVAFSHPKKAAALFVFL
31	Scallopsins	116	SELPAMFAKSSALYNPLYIYVAFHHPKFRPAEYKFL
32	Melanopsins M	371	MNSVPAYIAKASAIHNPLYIYVAITHPKYRAALAKYVPSL
33	Melanopsins X	194	SKAVPAYIAKASAIYNPLYIYVAITHPKYRAALAEKVPCL
34	Melanopsins L	4	LQSIIPAYFAKSSAVYNPLYIYVAITHPKFRAAAVKKHIPCL
35	Lancopsins	17	QVMAAFAKSSYLWNPLYIYVAFSTPFRPAEYKFL
36	Peropsins	133	MATLAPLFAKSSSTFYNPCLYVLIANKKKFRBAALAMVRCQ
37	Astropsins	4	LQMLAPLFAKSSSYNPLYIYVAFHHPKFRPAEYKFL
38	Varropsins	24	LTLPPLFAKASTVYNPLYIYVFLSNKKQFRRCFVAMK
39	RGR-opsins	190	LRMYPAYLAKITPTIENAFYVAFGNENYRGGIWRQELIGQ
40	Nemopsins	3	YVVVPVLIISRMPLLNPLYIYVWCNPRYVPIINFFLAK
41	Retinochromes	34	QALPPLMAKSSALYNPLYIYVAFHHPKFRPAEYKFL
42	Gluopsins	39	LATLPALFAEAASTSYPMYVAFHHPKFRPAEYKFL
43	Go-opsins	51	ALPLPTMFAKSSCMNPLYIYVAFHHPKFRPAEYKFL
44	Euthropsins (Opn5100)	100	YSVYPTLLAKSSAMYNPLYIYQVIDEKEACSSSSSK
45	Fiskopsins (Opn9/Opn5)	505	VILIPAMFAKSHCMINPLYIYQIMNBEFRFEDVYVMYEG
46	Fibopsins (Opn8/Opn9)	209	VSLLPALFAKSSSTVYNPLYIYVFLSNKKQFRRCFVAMK
47	Qoshopsins (Opn7/Opn2)	202	AFALPAMFAKSSSTVYNPLYIYVFLSNKKQFRRCFVAMK
48	Tremopsins (Opn6176)	176	TSILPLFAKSASFYNPLYIYVFGMSSSKFKDYAXLPCAR
49	Kiropsins	10	LXVAFFAKSSSTVYNPLYIYVFLSNKKQFRRCFVAMK
50	Outgroup	1326	SEALPPLMAKSSALYNPLYIYVAFHHPKFRPAEYKFL

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