

1	Nessopsins	83	EAELPELMAKASVLYNPLIYYAISMNEBFRAILLERLSESE
2	Peropsins	117	MAITLAPLFAKSSTFYNPCLYYVLANKKFRBAJLHAMVRCQ
3	Astropsins	4	LOVLAPLAAKISTSVLNPLIMFYDMUKKFRLEYOTMMFQCE
4	RGR-opsins	174	LRMYPAFLAKISTPTINAFYALGNEFYRGGIWOELTGO
5	Nemopsins	3	YVVVPVILSRMSPLLNPTHEYIWCNPRYPINKEFYAKS
6	Retinochromes	29	AGGLPPLMAKASSTVLPFAYEYASERERBAATLSSTSTST
7	Gluopsins	36	LAFLAPLASEEAATSYPLSYLAEERERBRALLGEMBKKE
8	Varropsins	5	LMTAGPNICAKASGALNPFIYYIFSNBNMRASLAPILRAK
9	Qoshopsins (Opn7/Opn9)	709	AFAFLAPAMFAKSSTFYNPYYLLHKPNFRKELERDDEQL
10	Fibopsins (Opn8/Opn1)	103	VSLLPCLFAKSSTXYNPFIYYIFSKTFQLERELCHEREND
11	Euthropsins (Opn5/Opn6)	106	YSVYPTLLAKSAAMYNPFIYYQVJDSEKELERELKALKKKK
12	Fiskopsins (Opn9/Opn7)	175	VILIPAMFAKSHCMINPFIYYQIMNBEFMYLEGBLEKAE
13	Kiropsins	24	LVQLPELFAKESSTVYNPFIYYFEMNKKFRERELERELER
14	Tremopsins (Opn6)	164	TSITCLBLFAKSASFYNPFIYYFGMSSSKFRKDYAXLLPC
15	Go-opsins	49	GLFLPTLMFAKSSCMNPNFIYYGLERERERERERERER
16	Arthropsins	65	QIALPAPFAKIAAYYERPFIYYGFESHPHFRRASYROYLERN
17	LWS-Facetopsins	611	XILIWGGLFAKANAYYNPFIYYAISHPKYRBAALERKKLPCL
18	SWS-Facetopsins	328	XIMLPAPFAKIVACIDPVIYYAISHPRYRRELQKRLPWL
19	UV-Facetopsins	129	ESMLPAPLFCIKIAACIDPFIYYAIIHPRFRRELERELER
20	Onychopsins	6	VSQLPAYFAKIAAYYNPFIYYAISHPKYRBAALBKSLPCL
21	Parvopsins	11	GQVYPMYFAKSSAIWNPLIYYAISHPERKKAALERERER
22	Scallopsins	112	GLPELPMFAKASAIYNPFIYYAISHPKFRBAALERERER
23	Melanopsins M	346	MNSVPAYIAKASAIHNPIIYYAITHPKYRBAIAAYLPCL
24	Melanopsins X	179	SKAVPAYIAKASAIYNPFIYYAITHPKYRBAIAEKYPCL
25	Melanopsins L	4	LQSIPAPFAKSSAVYNPIVYAITHPKFRAAVKKHIPCL
26	Lancopsins	17	GLPAAALFAKLSYVINPFIYYAISHPERKKAALERERER
27	Dumopsins	17	XSMYPPLFAKISTVYNPFIYYAISHPKFRERELERERER
28	Stranopsins B	19	LAFLPAPFAKASYIWNPFIYYAISHPKFRERELERERER
29	Stranopsins A	30	XATLPAPFAKASYIWNPFIYYAISHPKFRERELERERER
30	Cnidopsins	116	GLTPELFAKESSTVYNPFIYYAISHPKFRERELERERER
31	Stranopsins C	4	AITLPAPFAKSSSYYNPFIYYGLKHFRERELERERER
32	Pteropsins	202	RAYLPALFAKSSISYNPFIYYGLNTQFRBAWKKELER
33	Annopsins	25	XAMPAPMFAKASFYNPFIYYVGMNKKQFRBAFVFKILBG
34	Livopsins	11	AATLPAPFAKICTVYNPFIYYFLLNKKQFRBAPALISLCCG
35	Encephalopsin	126	VAILPELFAKSSTAYNPFIYYIFMFRKFRRCOLLQLLCER
36	TMT3-Opsins	139	ASVYPELFAKISTVYNPFIYYVLENNQFRRCFVAMKKCE
37	TMT2-Opsins	132	ASVYPELFAKSSTVINPFIYYILMNKKQFRRCFVALLHCE
38	TMT1-Opsins	166	ASVYPELFAKISTVINPFIYYIFMNNKKQFRRCFBALLHCE
39	TMTL-Opsins	15	AAVYPELMAKSSSTAYNPFIYYVAMNNQFRBRYFALLSCCE
40	Parietopsins	65	YATMPMYFAKTSPVYNPFIYYFESNKKQFRBSALEYLSGCG
41	Parapinopsins	131	LATYPMYLAKSSTVYNPFIYYIFMNNKKQFRBRYAYPELLCG
42	Cionopsins	2	TGAVPPEFFAKTATVYNPFIYYMGLNKKRFRDGVIRMYFRG
43	Va-Opsins	143	LAAIPAFFSKTAVYNPFIYYVFMNKKQFRKCLIQMFESCE
44	LWS-Okopsins	121	AAALPAYFAKSATVYNPFIYYVFMNNRQFRNCIMQLFGKK
45	RHO1-Okopsins	220	FMTLPAFFAKSSATVYNPFIYYIFMNNKKQFRNCMLTTVCCG
46	RHO2-Okopsins	141	FMAIPAFFSKSSALYNPFIYYVLMNKKQFRNCMLTTVCCG
47	SWS2-Okopsins	147	LATIPSCFSKASTVYNPFIYYVLMNKKQFRSCMMKMLGGMG
48	SWS1-Okopsins	142	LVTIPAFFSKSSCVYNPFIYYIFMNNKKQFRACIMETVFG
49	Pinopsins	68	LASLPSCYFSKTATVYNPFIYYIFMNNKKQFRBCLLMYCCG
50	Outgroup	1168	ESGLPELFAKESSTVYNPFIYYAISHPKFRERELERERER

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