

1	Nessopsins	88	EAEIPELMAKASVYYNPLIYYATSMNBBFRATLLMBLLBEE
2	LWS-Facetopsins	807	ETIWGSLFAKANAYYNPLIYYATISHPKYRAALMFKLPWLL
3	UV-Facetopsins	132	ESMLPALFCKIAACIDPQYYATISHPRFRBEEELMKLEEE
4	SWS-Facetopsins	372	XTMLPAFACKEVACIDPQYYATISHPRYRDELQKBPWPWL
5	Onychopsins	7	VSQLPAYFAKIAAYYNPLIYYATSHPRYRBALBKSEFAL
6	Scallopsins	118	AEELPMFAKASAMYNPLIYYATSHPKFRBALMKKEEPWL
7	Parvopsins	13	QVYPMYFAKESALWNPLIYYATSHPRFKKAAALRRERELM
8	Melanopsins X	333	MKSVPAYIAKASATYNPLIYYATHEKYREATAFYXPCL
9	Melanopsins M	137	MNSYPAYIAKASAIHNPLIYYATTHPKYRMAIAQVLPCL
10	Melanopsins L	4	LQSIPAYFAKSSAVYNPLIYYATTHPKFRAAAVKKHIPCL
11	Lancopsins	18	AEMLAAALFAKESVLLNPLIYYATSLPRFBRKQVESEKK
12	Dumopsins	28	XSTLPGLFAKISTYENPLIYYATSHPKFRBKTKKKLEEL
13	Arthropopsins	78	QIAPAEFAKIAAYYPRPLIYYGESHPRBFRSSYBQYLAE
14	Pteropsins	215	EAYIPALEFAKFSISYNPLIYYGGLNTIQFRFAWKKEFMEE
15	Annopsins	27	XAMLPAMFAKESFSYNPLIYYVAMNKKQFRBAFVKKJLEG
16	SWS1-Okopsins	151	LVTIPAFFSKSSACVYNPLIYYAFMNKKQFRACIMEMV
17	RHO1-Okopsins	273	FMTIPAFFAKSSALYNPLIYYIFEMNKKQFRNCMLTTLC
18	RHO2-Okopsins	126	EMAYPAFFSKSSALYNPLIYYVLMNKKQFRNCMLTTL
19	SWS2-Okopsins	158	LATIPSCFSKASTIVYNPLIYYVLMNKKQFRSCMLMKMLG
20	LWS-Okopsins	132	AAALPAYFAKSATIYNPLIYYVFMNRQFRNCIMQ
21	Pinopsins	61	LASLPSTYFSKTATVYNPLIYYVFMNKKQFRBCLLMKMC
22	Va-Opsins	125	LAAIPAFFSKTATVYNPLIYYVFMNKKQFRKCLIQMFE
23	Cionopsins	2	LGAXPAFFAKTAGIYNPLIYYIGLNRQFRDSEVYKMYF
24	Parapinopsins	111	VATYPMYLAKSSTVYNPLIYYIFEMNRQFRSYAYPELL
25	Parietopsins	57	VATMPMYFAKTSPVYNPLIYYIFELSNKKQFRDSEALEXLS
26	Livopsins	13	EATLPAMFAKESCTAYNPLIYYELLNKKQFRBPALJELL
27	TMT1-Opsins	168	ASTIPSTYLAKESTVINPLIYYIFMNKKQFYRCFBALLE
28	TMT2-Opsins	118	ASYYPSTYLAKSSTVINPLIYYIFLMNKKQFYBCELILEH
29	TMT3-Opsins	102	ASYYPSTYLAKESTVINPLIYYIFENNQFYRCFYAEK
30	TMTL-Opsins	17	AAAYYPSTYLAKSSTAYNPLIYYVAMNNQFRBYEHALLS
31	Encephalopsin	126	VATIPSTYFAKSSTAYNPLIYYIFMNRKFRRCLLQLL
32	Stranopsins A	43	EATLPALFAKESAYWNPLIYYATINKQFRBAEFELPSC
33	Stranopsins B	22	ELMPLPAVFAKASVYLNPLIYYVMTNRRFKKALMELPAL
34	Cnidopsins	136	EATLEAFMAFAKESATYNPLIYYEFMKKFRBELLMLMEE
35	Stranopsins C	6	AATLPALFAKSSVYNPLIYYGKKHFAFRBELLMBBRL
36	Tremopsins (Opn6)	158	TSIEIBLFAKSASFYNPLIYFGMSSSKFRKDYAXLLPCA
37	Qoshopsins (Opn7/Opn8)	200	AFALPAAYFAKSSTIYNPLIYYLLCKPNFRKELKBDMAEL
38	Kiropsins	30	ETXALFAKSSSTAYNPLIYYIFEMNKKFRBELLMLMEE
39	Fibopsins (Opn8/Opn7)	176	VSLPLPLFAKSSTIXYNPLIYYIFFKIFRBEVKKLCCSL
40	Euthropsins (Opn5/Opn6)	105	YSVYPTLLAKSAMYNPLIYYQVIDCKEACSMKESCKAL
41	Fiskopsins (Opn9/Opn5)	155	VILIPAMFAKSHCMINPLIYYQIMNBEDVYYXMYEGBCF
42	Go-opsins	55	EATLPPTMEAKSSCMNPLIYYATLNKKFRBAELMKLEPRY
43	Nemopsins	55	KKYXAMXYLHYIPMLNPLIYYFLRNKEYKBALEKKLEEE
44	RGR-opsins	174	LBMYPAVLAKTPTPTNAGFYALGNENYRGGIWOELAK
45	Gluopsins	41	LAFLAPLAEEAATSYPMFSYLAEPERBYRAALLGRMKBB
46	Retinochromes	34	AEELPELFAKESALMPAYEYATBFBBAEELMKKEK
47	Astropsins	6	LYEIAPLAAKTFMXTNPLIYYFOMIKKFRFYQAMMTBB
48	Peropsins	120	MAIIAPLFAKSSTFYNPCLIYYVIANKKFRBAJCAMVGO
49	Varropsins	28	LILIPPLFAKASTIXENPLIYYIFELSNKKFRBSJLJATLPE
50	Outgroup	1155	EEELKAEELAMNSAINPLIYYATFNRRFRBAELMKLEEL

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