

Table S2. Positive signals obtained from *in vitro* homology search array

probe \ sample	Pygmy Squid stage 20 whole	Pygmy Squid stage 25 eye	Pygmy Squid stage 30 whole	Pygmy Squid adult eye	Pygmy Squid adult brain	nautilus adult eye	nautilus adult retina	scallop adult eye
squid	211 (3.8%)	253 (4.2%)	192 (3.3%)	256 (3.9%)	202 (3.3%)	189 (4.9%)	204 (4.8%)	432 (6.4%)
octopus	469 (8.3%)	600 (9.9%)	413 (7.1%)	612 (9.3%)	473 (7.8%)	521 (13.6%)	571 (13.3%)	1090 (16.1%)
scallop	124 (2.2%)	161 (2.7%)	152 (2.6%)	162 (2.5%)	128 (2.1%)	172 (4.5%)	339 (7.9%)	1322 (19.5%)
nautilus	110 (2.0%)	165 (2.7%)	98(1.7%)	173 (2.6%)	136 (2.2%)	1026 (26.8%)	1075 (25.0%)	398 (5.9%)
pygmy squid	3841 (68.4%)	3820 (63.2%)	4233 (72.4%)	4229 (64.4%)	4292 (70.9%)	630 (16.5%)	760 (17.7%)	1372 (20.2%)
Control	213 (3.8%)	219 (3.6%)	209 (3.6%)	240 (3.7%)	211 (3.5%)	263 (6.9%)	268 (6.2%)	289 (4.3%)
Total	4,968	5,218	5,297	5,672	5,442	2,801	3,217	4,903