

Table S4. Estimated ancestral selenoproteome size and atmospheric O₂ concentration during vertebrate evolution.

	Date (Myr ago)	Ancestral selenoproteome size	O₂ levels (%)
1	5.4	25	21.06831
2	23	25	20.70055
3	92	25	18.91137
4	101	25	18.49011
5	110	25	17.78719
6	173	26	12.24840
7	237	27	15.51487
8	250	27	20.28205
9	310	26	26.32482
10	324	33	23.71518
11	360	26	17.07378
12	450	31	17.13995