

Table S1. Mitochondrial matrix volume and correction factors for non-specific TPMP⁺ binding

	<i>Chaenocephalus aceratus</i>	<i>Chionodraco rastrispinosus</i>	<i>Gobionotothen gibberifrons</i>	<i>Notothenia coriiceps</i>
Matrix volume ($\mu\text{l mg}^{-1}$ protein)	1.52	0.91*	0.51**	0.51
TPMP ⁺ binding (per mg protein) 2°C	0.896±0.046	0.920±0.044	0.991**	0.991±0.005
TPMP ⁺ binding (per mg protein) 10°C	0.974±0.021	0.986±0.001	0.964**	0.964±0.014

*Based on stereological measurements (O'Brien and Sidell, 2000).

**Assumed to be similar to *N. coriiceps* based on stereological measurements (O'Brien and Sidell, 2000; Urschel and O'Brien, 2008).

Non-specific TPMP⁺ binding is expressed as means \pm s.e.m. $N=2-6$.