

Additional File 7: Table S5. List of selenoprotein transcripts significantly modulated. All the selenoprotein transcripts modulated in the HK and liver of fish fed the experimental diet enriched with 4 g Kg⁻¹ Sel-Plex and injected with PBS, of fish injected with poly(I:C) and fed the experimental diet enriched with 4 g Kg⁻¹ Sel-Plex and the control diet respectively, are given. All the transcripts shown were significantly modulated ($p < 0.05$) following the Benjamini–Hochberg correction and had a fold change ≥ 2 . Accession numbers of the cDNA sequences⁶, their identity⁷ and the corresponding human orthologue⁸ determined by BLASTx and BLASTn are reported. SeC represents the groups comparison addressed to analyse the effects of the 4 g Kg⁻¹ Sel-Plex diet. CP and SeP instead represent the comparisons addressed to analyse the effect of poly(I:C) stimulation on fish fed either a control diet or the 4 g Kg⁻¹ Sel-Plex respectively.

Trait ¹ Identifier	SeC ²	CP ³	CP ⁴	Acc. Number ⁵	Identity ⁶	HGNC symbol ⁷
HK						
CUSR_21_PI	1.0	-4.7	-4.3	not-annotated	Type I iodothyronine deiodinase	DIO1
TC133469	-1.1	2.2	1.9	NM_0011245	Glutathione peroxidase type 2	GPX2
CUST_38_PI	1.0	-2.1	-2.0	HF969249	Selenoprotein Pa	SEPP1
TC164235	1.1	2.7	2.3	BT072601	Thioredoxine reductase 1	TXNRD1
Liver						
TC134139	-1.3	-5.6	-4.7	AF207900	Type II iodothyronine deiodinase	DIO2
TC132596	1.4	-2.2	-1.5	NM_0011245	Glutathione peroxidase type 2	GPX2
CUST_39_PI	1.2	-2.1	-2.0	HF969250	Selenoprotein Pb	SEPP1
TC154252	1.2	-2.1	-1.7	BT045754	tRNA selenocysteine-associated protein 1	TRNAU1AP