

## SUPPLEMENTARY MATERIAL

### Direct ionic regulation of the activity of *myo*-inositol biosynthesis enzymes in Mozambique tilapia

**S2 Table**

	Query Hs 1.1			Query On 1.X1	
Using <i>Homo sapiens</i> NM_005536.3 vs	<b>blastx (vs refseq, ** vs NR)</b>	Using the 1st hit vs human refseq RNA (tblastn)	USING <i>O. niloticus</i> XP_003439317.1	<b>blastP (vs refseq, ** vs NR)</b>	Using the 1st hit vs <i>O. niloticus</i> refseq protein (blastp)
	1st hit on species Database	1st hit on <i>H. sapiens</i>		1st hit on species Database	1st hit on <i>O. niloticus</i>
<i>Bos taurus</i>	NP_776786.1	<b>NM_005536.3</b>	<i>Bos taurus</i>	NP_776786.1	XP_003439196.1
<i>Mus musculus</i>	NP_061352.2	<b>NM_005536.3</b>	<i>Mus musculus</i>	NP_061352.2	XP_003439196.1
<i>Gallus gallus</i>	XP_418310.2	<b>NM_005536.3</b>	<i>Gallus gallus</i>	XP_418310.3	XP_003439196.1
<i>Homo sapiens</i>	NP_001138350.1	<b>NM_005536.3</b>	<i>Homo sapiens</i>	NP_005527.1	XP_003439196.1
<i>Xenopus laevis</i>	NP_001080635.1	<b>NM_005536.3</b>	<i>Xenopus laevis</i>	NP_001080635.1	XP_003439196.1
<i>Oryzias latipes</i>	XP_004081210.1	<b>NM_005536.3</b>	<i>Salmo salar</i> **	NP_001266101.1	XP_003458173.1
<i>Salmo salar</i>	NP_001167325.1	<b>NM_005536.3</b>	<i>Danio rerio</i>	NP_001002745.1	XP_003458173.1
<i>Danio rerio</i>	NP_001002745.1	<b>NM_005536.3</b>	<i>Oryzias latipes</i>	XP_004081209.1	<b>XP_003439317.1</b>
<i>Oreochromis niloticus</i>	XP_003439196.1	<b>NM_005536.3</b>	<i>Oreochromis mossambicus</i>	AFY10067.1	<b>XP_003439317.1</b>
<i>Takifugu rubripes</i>	XP_003976933.1	<b>NM_005536.3</b>	<i>Takifugu rubripes</i>	XP_003976931.1	<b>XP_003439317.1</b>
<i>Xiphophorus maculatus</i>	XP_005805762.1	<b>NM_005536.3</b>	<i>Xiphophorus maculatus</i>	XP_005816948.1	<b>XP_003439317.1</b>
<i>Gasterosteus aculeatus</i> *	ENSGACP00000006493	<b>NM_005536.3</b>	<i>Anguilla anguilla</i> **	CBI68709.1	<b>XP_003439317.1</b>
<i>Anguilla anguilla</i> **	CCP46952.1	<b>NM_005536.3</b>	<i>Gasterosteus aculeatus</i> *	ENSGACP00000006465	<b>XP_003439317.1</b>
<i>Tetraodon nigroviridis</i> *	ENSTNIG00000013660	<b>NM_005536.3</b>	<i>Tetraodon nigroviridis</i> *	CAG05496.1	<b>XP_003439317.1</b>

**S2 Table.** Bidirectional Best BLAST hit to determine putative IMPase orthologues. The sequence for *H. sapiens* (left) or *O. niloticus* (right) IMPase was used to look for the best hits in the several non-fish and fish species. The search was performed using NCBI BLAST and RefSeq databases, unless specified otherwise (\* = Search on Ensembl BLAST/BLAT; \*\* = Search vs non-redundant databases). The first hit for each species (Column A) was used to search in the database corresponding to the query used for the first search (i.e., against human for the left table, against Nile tilapia in the right column). If the first hit matched the identity of the sequence used in the original BLAST, the sequences were considered orthologues (in red, the non orthologues sequences).