

## Additional file 2: Supplementary Table S2.

Summarized information on the mud loach  $\alpha$ -actin isoform cDNAs and genomic gene

Parameters		Actin isoforms		
		<i>ACTA1</i>	<i>ACTC1</i>	<i>ACTA2</i>
<b>cDNA</b>	Total length	1268 bp	1273 bp	1607 bp
	5'-UTR	44 bp	44 bp	76 bp
	3'-UTR	123 bp	121 bp	421 bp
	ORF	1131 bp	1131 bp	1131 bp
	Stop codon	TAA	TAA	TAA
	Polyadenylation signal	AATAAA (-23 bp)	AATAAA (-23 bp)	AATAAA (-10/-26 bp)
<b>Amino acid</b>	No. amino acids	377 aa	377 aa	377 aa
	Molecular weight (Da)	41958.9	41974.9	41994.9
	Theoretical pI value	5.22	5.22	5.23
	AA in 8 non-conserved positions	D-T-V-T-A-V-A-T	D-T-V-T-S-I-A-S	E-S-C-S-S-I-T-S
<b>Genomic gene</b>	Non-translated exon-1	24 bp	22 bp	33 bp
	Intron-1	876 bp	849 bp	1290 bp
	Exon-2	149 (20) bp	151 (22) bp	172 (43) bp
	Intron-2	182 bp	445 bp	1300 bp
	Exon-3	129 bp	129 bp	129 bp
	Intron-3	99 bp	147 bp	598 bp
	Exon-4	111 bp	111 bp	111 bp
	Intron-4	99 bp	77 bp	329 bp
	Exon-5	85 bp	85 bp	85 bp
	Intron-5	211 bp	103 bp	86 bp
	Exon-6	162 bp	162 bp	162 bp
	Intron-6	87 bp	91 bp	646 bp
	Exon-7	192 bp	192 bp	192 bp
	Intron-7	82 bp	138 bp	88 bp
	Exon-8	182 bp	182 bp	182 bp
	Intron-8	197 bp	79 bp	89 bp
	Exon-9	144 bp	144 bp	144 bp

Poly(A<sup>+</sup>) tail was excluded in the calculation of total length for cDNA.

Length of 3'-UTR includes the stop codon but exclude the poly(A<sup>+</sup>) tail.

Stop codon was excluded for estimating the length of ORF.

Exon-2 is comprised of untranslated (bp in parenthesis) and translated regions.

GenBank accession numbers are KX347541 - KX347543 for genomic genes (*ACTA1*, *ACTC1* and *ACTA2*, respectively), and KX347544 - KX347546 for their cDNA counterparts.