

Scaffold	Annotation / Location		Exons	
<b>1316</b>	<b>ENSXETT00000035890</b>		1-9, 11-22, 28-30, 32-33, 35-39, 43-47	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?db=core;transcript=ENSXETT00000035890">http://www.ensembl.org/Xenopus_tropicalis/transview?db=core;transcript=ENSXETT00000035890</a>
<b>1316</b>	95958	95999	10	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
			23-25	TTCATTCTCAGCGTTCCGGCTGGACTACAGGATCTCCTACATGCTCTCCATTACAAAGAGGAATTCGGAGATCAGGGTAACAGCATTGAGAACTCAACCGTCTCTCCTCCTGAACTGCTGCCCCCATCTCTGGGGCTCCTGATATTGACGAGATTGCTGCCAGGGCGAAACCATGTTTCCCGGGAGTAAGGAGAAGAACCCGGTCTGCTGGATGACGAAGGGGGTCCGACCTCTGCGCGTTCTCATTACCTGATCATGCACGACTATCCCCCGCTGCTCTGCGCGCCCTCCAGCTGCTGTTTAAACACTTCAGCCAAAGAGCTGAGGTCCTCAGGCTTTCAAACAG
<b>4906</b>	7514	7690	26	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_4906">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_4906</a>
<b>1316</b>	47365	47454	27	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
<b>4906</b>	251	502	31	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_4906">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_4906</a>
<b>1316</b>	37681	37801	34	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
<b>1316</b>	22831	23011	40	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
<b>1316</b>	24880	25139	41	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
<b>1316</b>	19676	19876	42	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
<b>1316</b>	1314	1460	48	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_1316</a>
			49	GAACCTCTCGCCATTATTTTCCGTCCTTTTGTGGATTGCGGTGGCAGTCTGTACGGCCATGTTGTTTCTGCTGCCAAAGCCATTCGGTATCAGGCCCTTCTTGGTGTGCGGTGATGCTCAGGTCATATACACCATTGGATTGGGCCCAACACTCATACTGCTTGGAGCTGGCAAT
<b>6284</b>	<b>GENSCAN00000009693</b>		50	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=GENSCAN00000009693;db=core">http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=GENSCAN00000009693;db=core</a>
			51,52	CTGTTTGATTGGTGTATCGAGAGGAAACCTTACTGAACGTTATAAAGAGTGTGACAAGGAATGGTCGCTCCATCATTC TGACCGCCGTTCTGGCCCTCATCCTCGTCTACCTCTTCTCCATTATCGGGTTTCTCTTCTGAAAGACGACTTCATCAT GGAGGTGGACAGGCTGAAGAACCGGACCCCGGATCTGGGACACGGGGAGATCAGAACGTCACCTCTGACCAATGATG GACACTTGTTCATACGAAAACCTGTTCCATGACTGTATCTATCCAG
<b>6354</b>	<b>ENSXETT00000035894</b>		53,54	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?db=core;transcript=ENSXETT00000035894">http://www.ensembl.org/Xenopus_tropicalis/transview?db=core;transcript=ENSXETT00000035894</a>
			55	GGCTCGAAAGAGACAAGTTTGATAATAAAACCGTTTCTTTGAGGAGCACATCATGTCTGAGCACTGTATGTGGCACTA CTTGTACTTCATCGTCTCGTAAAGTCAAGGACCCCACTGAGTACACGGGGCCCGAGAGCTACGTGGCCCAAATGATT GTG
<b>6354</b>	2927	3088	56	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_6354">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_6354</a>
<b>3629</b>	163	246	57	<a href="http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_3629">http://www.ensembl.org/Xenopus_tropicalis/contigview?region=scaffold_3629</a>

**Supplementary Table 1.** Table defines the genomic organization of *Itp2* showing the scaffold locale of correctly annotated transcripts and exons (if not predicted correctly). Sequence missing from the current genomic release (JGI 4.1, Ensembl 41) is provided. Due to misannotations, exon numbering relates to verified sequence data (Figs 1&2) rather than the Ensembl transcript annotation.

Scaffold	Annotation / location		Exons	
194	FGENESH00000114960		1-6, 8-9, 11	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=FGENESH00000114960;db=core">http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=FGENESH00000114960;db=core</a>
194	1810483	1810539	10	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_194">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_194</a>
194	ENSXETT00000033593		3-9, 12-14, 18-21	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=ENSXETT00000033593;db=core">http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=ENSXETT00000033593;db=core</a>
			15-16	ATATTTGGTATCCTGAAGGCACCATTTAAGGAGAAAAGGTACAGACGGTCCTTTGCTAAGACTGGAGGAGCTTTCTGACC AAAAAATTCCTCCCTACCAATATATGTTTCGGCTCTGTTATCGGGTACTTCGCCACTCACAAAGAGGACTATAGAAAAA CCAGGAACATATAGCCAAACAATTTGGAGTCATGCAATCGCAAATTGGTTATGACATTCTTGACAGAGGATACCATTACA GCTCTACTACATAACAACCGAAAACCTATTGGAAAAGCATATTACCAAAACAGAGGTGGAAACCTTTGTAAACTTGGTCA GAAAAACCGTGAGCCCCG
194	1857082	1857201	17	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_194">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_194</a>
5020	3848	4047	22	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_5020">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_5020</a>
5020	6022	6154	23	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_5020">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_5020</a>
490	8805	8862	24	<a href="http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=GENSCAN00000027399">http://www.ensembl.org/Xenopus_tropicalis/transview?transcript=GENSCAN00000027399</a>
490	GENSCAN00000027399		25-28, 31-35	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	44335	44457	29	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	46188	46388	30	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490 (238)	ENSXETT00000040536		31-37, 40-45, 47, 50-52, 54-58	<a href="http://dec2005.archive.ensembl.org/Xenopus_tropicalis/transview?db=core&amp;transcript=ENSXETT00000040536&amp;show=peptide&amp;number=on&amp;submit=Refresh">http://dec2005.archive.ensembl.org/Xenopus_tropicalis/transview?db=core&amp;transcript=ENSXETT00000040536&amp;show=peptide&amp;number=on&amp;submit=Refresh</a>
490	71639	71729	38	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	73802	73971	39	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	84632	84715	46	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	116931	117123	48	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	<151683	151754	49	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>
490	164778	164873	53	<a href="http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490">http://www.ensembl.org/Xenopus_tropicalis/cytoview?region=scaffold_490</a>

**Supplementary Table 2.** Table defines the genomic organization of *Itr3* showing the scaffold locale of correctly annotated transcripts and exons (if not predicted correctly). Sequence missing from the current genomic release (JGI 4.1, Ensembl 41) is provided. Due to misannotations, exon numbering relates to verified sequence data (Figs 1&2) rather than the Ensembl transcript annotation.

IP <sub>3</sub> R2[1]	5'GGGCTGTTGAAGAGATTTGC
	5'GTCTGAATGAGAATGTCCGC
IP <sub>3</sub> R2[2]	5'AGAAGTTCCTGACATGCGACGAGT
	5'GCCAATTCTTGCATCACTGCC
IP <sub>3</sub> R2[3]	5'ATCATCTGTGCAACGAGATCAGC
	5'TTTCAGTGCCTCGTCTCCTT
IP <sub>3</sub> R2[4]	5'GAAGAACATGGACCCGAAGA
	5'GTTCTCTTGTTGCCACCCAT
IP <sub>3</sub> R3[1]	5'GCAAAGCACATAGAGAGCTA
	5'CAGCATGAAAGAGGCGAA
IP <sub>3</sub> R3[2]	5'CCACTTCATGCCAGCAACTATGAGCTCACTG
	5'GTAATGGCCCGTGAGGTGGAAGCATGTATC
IP <sub>3</sub> R3[3]	5'GATCATGACAGAGCTTACTAATGCTGGAGATG
	5'CATGCGTTGACGTCTCTTCCTCTGCTCTGT
IP <sub>3</sub> R3[4]	5'AAAGAATAAGAACCTGGACTGG
	5'GGGAGAAGACAAGATCTTTATAG

**Supplementary Table 3.** Gene specific primers used for amplifying IP<sub>3</sub>R2 and IP<sub>3</sub>R3 in RT-PCR analyses.