

**Table S1.** Set of primers/probes used to detect gene expression by qRT-PCR and WISH.

<b>Sybr System</b>			
Genes	<i>S. mansoni</i> Gene DB	Forward primer (5'-3')	Reverse Primer (5'-3')
SmVAL4	Smp_002070	GGAAGGACAACGAGCAATCT	CGTTTAGCTTGTTGTTTAGCTTTATT
SmVAL6	Smp_124050	CTTATCATCCAAATTCACGTCATTTT	AAAGGCCAATCCGAATCCA
SmVAL7	Smp_070240	TGGAGTCATAAATTGGCTGAAATG	CAGATGCTGCTTGTCTAACTTTAGGA
SmVAL13	Smp_124060	TGTGATGAATATGGAGAAAATTTGG	TGAATCTCATCGTACCAGTTTCGT
SmVAL16	Smp_124070	AGGATTCGGTCTGCATTATCC	CATCTCTTGGTGGAGCAGTTATCTT
SmVAL24	Smp_141550	GAAAGAATCGAACTACTATGACCACAAT	TGCTTCAACTATCTGCTTGTAAGTGTT
18S Ribosomal	sma.18s.1	TCGCGACGGATCTTTCA	CCGGAATCGAACCCTGATTC
SmActin	Smp_161930	CGTTGGACGACCTCGACAT	TTTGTGTAGGTTGGACGCTCTATATC
<b>Probes Templates</b>			
SmVAL4	aagttatcgggaaggacaacgagcaatctataatttccataaaaaagttcgtaaagatgtaaaaaattgcaggatacctggtcaac ctccagctaaaaatctaacaaagttgaaatggaataaaactattagctaataaagctaaacaacagctaaacgatgtaaatatga ttcaaatgatccaaatgatTTTTATTATTGGGGATTTGAAATCAATTGGACAAAATTTAGCCGATTATCCAACAATTGAAGGTGCA atgaaagattgggttagaagagtataaaaaattataatTTTGAAAAGAATCAATGTAATGGTGATTGTAAAAATTATAACAGATGG TTGGAAATACCCTGAAGAAATAGGCTCGGTTATGAAAAATGTGGAAAGAATTTGATTGTTTGCAATTATGCACCAGGGGA ctctgaagatagaccatagaagctaaaccagaaagtaaatgtaataaatcagaataa		
SmVAL6	atgattaatgaacgTTTTAATGATCAAGCTATACGGGAACATAATCGACTTCGTTCTCTACATGGATGTCCAGAACTTCAATTGG atgaagacttaatgatttcagcacaAAAAATGGGCTGAAAATTTAGCCGCTGCCGAAAAATTATATCATAGTAATTATAATGATGA tggggaaaatttggcattcaaaatgtctgcatcaccatgtcaataaacagggtgaagaagtttcacagacatggatagtgagatt gactatcatgactTTTACTCAATCTTATCATCCAAATTCACGTCATTTTACTCAGATGATTTGGAAATCTACAACAGAGCTGGAT tcggattggcctTTTAGTCAAGATCAAACGAAAGCATAGTTGTTGGACGTTATTTACTGAGGTAACAAAAGGGGATTTCCGGATG gaatgtaccacattatcaaggaattaaaagatctgaaaagtattgattcattggatcgtaattcaattagatcaagctcatagacga tcatttagagaaagtctaggattatcagaagatgcaaatgttactgggatcatacaccatagcacctgaaggacactctttaa taaacgaagatgaacgctctagaactggtcaatacgtagtggagatttcaacggtccagacctacttcaTTTTCAATAATGA tgatatacattataaatctgtatatacaAAAAAGTTCCAGAAGATTTACGACCTAAAACCTATAATGTCACTACTACTAGTTTACC aatacagatgatgcacataattcattatgtagtccaacagtgatcaattttaaTTTTATGAATTCAGATGAACGTCCAAATGACT TTTTCTGGATCCAGTCGTATGTCTATTAGAACATCAGTAAGACGCCAACAAGAAGTTCAACACCAGTGTGAATGGACACTCATA tgaaagagagagtagtatttcttcaaatggaagagctaaactatctaaaagatgatcaatatggaagagctagttatatcagaat gatcaatctggaagatctagttatatgaaagatgaacaatatggaatgcaaatgatgataatagtagtacattaaggggttcga gtgtttctggcaagggatacaaatattgttctactgttaacaacggtggacataacagggtatatttccgagaatgtgagacaatat gagtggttggttattgaaagagattatagaagatattga		
SmVAL7	tatagatggtatacacaAAAactctgaattattagctttacacaatgcataatagaaggaatataaaaatattggttaattggtcgtgatc aaccacaagtgatgagtagcttaaaactaacatggagtcataaaattggctgaaatggctcaggaatgggcattacaatgtgtgcc aagacgaagtaacatgactatgaggaaaaggttcgaaatggacatatgttggcagagatcgctttcgttctaaagtttagacaa gcagcatctgtatggtttgaacaacacaagaattacaatTTTCGAAAACAATACTTGTGAGGCAATAAAAACCTTGTGCAGATTACA aacaattagctTTTCGCCGATACCACACATATTGGATGTGGTTATGCAATGTGTTTTAATCTAACAGGACTAGATAAAGTTTTGT TGTTCGAACCTATGGACCAGGGGGTAAATATGCCAATAGACAACCCTATGATCCTATATATCCTGAAGATCCATACTACCTCCA tga		
SmVAL13	atggtagatgaacaattaaatcatgatgcattgaatgaacataatcgattacgtgcattgcacggatgtcctccattaaaaatag atcgaagacttgctagagaagcacaagcttgggctgaaaatcttgcacgTTTTAAAAATTATGGAACATAGTATCTGTGATGAATA tggagaaaatttggcatcagcacaatctactggaaaagcggaaatgaccggagctagagcgacacgaaactggtagcatgagatt cattatcacaattTTTAAATAACAGTTTCAAAGTCAGTCAGGTCATTTTACACAGCTTATCTGGAAGAATACATCAAAGCAGGAT TTGGCATTCAACATTCAAGTGTGATGGCCATCATGTTTTTATAGTAGGACGTTATGAGCCACCTGGGAATGTAATGGTCAATTTTT AGAAAATGTACCTCCACCTATCCATGGACAGTCAACTCCAAATCTAAAGTCCCTTCTTACAAACATAATGAACAGAATGGTCCA CGAAGAACCTATCAAGATGAAGTATTGTTTCGAGAGACAGATAGAAAAGATCAAAATGGTTCAAATCATATTACGTTGATAG		

---

atagttctaaacgaagcaggtcagatgaaactataaccaaacaaaaacgaagtacgtatcattagagcggagagaagaaacgtcaacg  
aagatgtgcaaagaggtgtagtattatgtaa

---

SmVAL16

atgataataaataaacttaataaggaggtatacaggctcataatgaacttagagcgttacatggttgtccagaaataagttatg  
attcaaaaactggctagtgtattctcaaaagtgggctgaacatttggcttcaataaattggttacaacatagtaaaggagatgatta  
tggtgaaaatthagcatttcaaatgtctacagccggtgcatcattgaatggtcgtgaagcaactcgaaattggtacgatgaatt  
attcaacatgattttaatggacaaaatcaacctgggacaggacattttactcaagtaatttggagtcactattaagcaggat  
tcggttctgcattatccaaa

---

SmVAL24

ttggaccacaggaggcacaactcatgctgagtagacataatgagcatcgagcataccgaaaactgtgtggcgaagaggacatag  
tgccagcagaggaaatactacagcctcttgagtgggacgataaattggctgccgctgctcaaagttggtctgaaaaatgcaatcc  
atgtgacgaagaaccgattggaaatgttggtaaatgggattcggttggcgaattccgctattcattctgagttggcagaagct  
ggtgcatattggatgaaagaatcgaactactatgaccacaattcagacctctgtgagccatcgcatcactgcaacacttacaagc  
agatagttgaagcaciaaacggcgtacgtgggatgcggttataccagatgtgaagaatatgaatatccatcaaacatggtgatcgc  
ttgttactactcacctaaagtgatgagtggtccaccgtacactgacggaacgaacggacgatgcggtatctgaatga

---