**Supp. File 2: *S. haematobium* vaccine candidate list**. Listof relevant vaccine candidates included in the design of the baits. Gene name and RNA id correspond to those in the annotation file of the *S. haematobium* genome.

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| Gene name | RNA id |
| Alkaline phosphatase, placental type | rna8550 |
| Alkaline phosphatase, placental-like | rna8552 |
| Alkaline phosphatase, placental type | rna8708 |
| Alkaline phosphatase | rna10181 |
| Acetylcholinesterase | rna1212 |
| Acetylcholinesterase | rna1772 |
| Acetylcholinesterase | rna5122 |
| Hemoglobinase | rna8838 |
| Endoplasmic reticulum metallopeptidase 1 | rna7306 |
| Methionine aminopeptidase 2 | rna5991 |
| Methionine aminopeptidase 1 | rna8741 |
| Triosephosphate isomerase | rna10340 |
| Glyceraldehyde-3-phosphate dehydrogenase | rna9740 |
| Glyceraldehyde-3-phosphate dehydrogenase | rna10942 |
| Acid sphingomyelinase-like phosphodiesterase 3b | rna6904 |
| Putative neutral sphingomyelinase | rna8921 |
| TGF-beta receptor type-1 | rna1191 |
| CD81 antigen | rna9311 |
| Tetraspanin-33 | rna2147 |
| Tetraspanin-31 | rna4244 |
| Tetraspanin-1 | rna5080 |
| Tetraspanin-3 | rna6308 |
| 23 kDa integral membrane protein | rna8830 |
| Dynein heavy chain 2, axonemal | rna362 |
| Dynein light chain LC6, flagellar outer arm | rna513 |
| Dynein regulatory complex protein 1 | rna796 |
| Dynein light chain 2, cytoplasmic | rna1126 |
| Dynein light chain LC6, flagellar outer arm | rna1127 |
| Dynein light chain 1, cytoplasmic | rna1128 |
| Dynein light chain 2, cytoplasmic | rna1131 |
| Dynein light chain LC6, flagellar outer arm | rna1132 |
| Dynein light chain 2, cytoplasmic | rna1133 |
| Dynein light chain 2, cytoplasmic | rna1134 |
| Dynein light chain 1, cytoplasmic | rna1135 |
| Dynein light chain Tctex-type 1 | rna1148 |
| Dynein light chain Tctex-type 1 | rna1150 |
| Dynein light chain | rna1311 |
| Dynein light chain 4, axonemal | rna1368 |
| Dynein heavy chain 10, axonemal | rna1422 |
| Dynein heavy chain 10, axonemal | rna1423 |
| Dynein heavy chain 7, axonemal | rna2159 |
| Dynein heavy chain 6, axonemal | rna4031 |
| Dynein heavy chain 6, axonemal | rna4032 |
| Dynein heavy chain 6, axonemal | rna4033 |
| Dynein heavy chain 6, axonemal | rna4034 |
| Dynein light chain | rna4247 |
| Dynein light chain 2, cytoplasmic | rna4248 |
| Dynein assembly factor 1, axonemal | rna4722 |
| Dynein light chain 2, cytoplasmic | rna5138 |
| Dynein light chain | rna5139 |
| Dynein light chain | rna5141 |
| Dynein light chain 2, cytoplasmic | rna5459 |
| Dynein heavy chain 7, axonemal | rna5588 |
| Dynein heavy chain 7, axonemal | rna5589 |
| Dynein light chain 2, cytoplasmic | rna5675 |
| Dynein light chain 2, cytoplasmic | rna5676 |
| Dynein heavy chain 3, axonemal | rna5744 |
| Dynein assembly factor with WDR repeat domains 1 | rna5927 |
| Dynein heavy chain 5, axonemal | rna5951 |
| Dynein-1-beta heavy chain, flagellar inner arm I1 complex | rna5955 |
| Dynein heavy chain 1, axonemal | rna7320 |
| Dynein heavy chain domain-containing protein 1 | rna7471 |
| Dynein heavy chain 7, axonemal | rna7561 |
| Dynein intermediate chain 2, ciliary | rna7918 |
| Dynein intermediate chain 2, ciliary | rna7919 |
| Dynein heavy chain 5, axonemal | rna7925 |
| Dynein light chain LC6, flagellar outer arm | rna8219 |
| Dynein light chain 2, cytoplasmic | rna8220 |
| Dynein light chain 1, axonemal | rna8521 |
| Dynein heavy chain 17, axonemal | rna8962 |
| Dynein beta chain, ciliary | rna8963 |
| Dynein heavy chain 5, axonemal | rna9442 |
| Dynein light chain roadblock-type 2 | rna9552 |
| Dynein intermediate chain 3, ciliary | rna10134 |
| Dynein 8 kDa light chain, flagellar outer arm | rna10333 |
| Paramyosin | rna1794 |
| Paramyosin | rna7421 |
| Myosin heavy chain, striated muscle | rna2888 |
| hypothetical protein | rna5575 |
| Myosin IA heavy chain | rna8582 |
| Myosin heavy chain, non-muscle | rna10685 |
| Filamin-A | rna1676 |
| Filamin-A | rna828 |
| Syntenin-1 | rna842 |
| Syntenin-2 | rna7172 |
| Syntenin-1 | rna7314 |
| Fructose-bisphosphate aldolase | rna2767 |
| 14 kDa fatty acid-binding protein | rna4146 |
| 16 kDa calcium-binding protein | rna5514 |
| 16 kDa calcium-binding protein | rna5644 |
| 16 kDa calcium-binding protein | rna5711 |
| 16 kDa calcium-binding protein | rna5712 |
| 16 kDa calcium-binding protein | rna6178 |
| 16 kDa calcium-binding protein | rna6179 |
| 16 kDa calcium-binding protein | rna6180 |
| 16 kDa calcium-binding protein | rna6182 |
| 16 kDa calcium-binding protein | rna6183 |
| 20 kDa calcium-binding protein | rna9455 |
| Sarcoplasmic calcium-binding protein | rna9646 |
| Calcium-binding protein 39-like | rna9746 |
| Lysosomal aspartic protease | rna6107 |
| Calpain | rna1921 |
| Calreticulin | rna8129 |
| 40S ribosomal protein S4 | rna1834 |
| 60S ribosomal protein L7a | rna1229 |
| 60S ribosomal protein L7a | rna1230 |
| Tubulin polyglutamylase TTLL7 | rna4902 |
| 60S ribosomal protein L7 | rna11001 |
| hypothetical protein | rna1730 |
| Y-box-binding protein 3 | rna1727 |
| Stomatin-2 | rna7623 |
| Stomatin-like protein 2, mitochondrial | rna1119 |
| Tegument antigen | rna5724 |
| hypothetical protein | rna3812 |
| Microsomal glutathione S-transferase 3 | rna2097 |
| Glutathione S-transferase omega-1 | rna4464 |
| Glutathione S-transferase class-mu 28 kDa isozyme | rna6212 |
| Microsomal glutathione S-transferase 1 | rna7354 |
| Glutathione S-transferase class-mu 26 kDa isozyme | rna11108 |
| Superoxide dismutase [Mn], mitochondrial | rna64 |
| Extracellular superoxide dismutase [Cu-Zn] | rna2827 |
| Extracellular superoxide dismutase [Cu-Zn] | rna2828 |
| Superoxide dismutase [Cu-Zn] | rna8863 |
| Ectonucleotide pyrophosphatase/phosphodiesterase family member 5 | rna7706 |
| Ectonucleotide pyrophosphatase/phosphodiesterase family member 5 | rna8331 |
| Tegument antigen | rna8098 |
| Tetraspanning orphan receptor | rna9576 |