**Table S2.** Summary data for the 28S rDNA sequences for Fasciolidae and other families in the superfamily Echinostomatoidea (Platyhelminthes: Trematoda)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Family** | **Species (strain)** | **Accession No** | **Country** | **References\*** |
|  | ECHINOSTOMATOIDEA |  |  |  |  |
|  | **Fasciolidae (18)** |  |  |  |  |
| 1 |  | *Fasciola gigantica* (T4V) | MN970010 | Vietnam | This study |
| 2 |  | *Fasciola gigantica* (NB) | MN970009 | Vietnam | This study |
| 3 |  | *Fasciola gigantica* (St. Louis) | AY222245 | Senegal | Olson *et al*. (2003) |
| 4 |  | *Fasciola gigantica* | EU025873 | Kenya | Lotfy *et al.* (2008) |
| 5 |  | *Fasciola gigantica* | HM004190 | Thailand | GenBank |
| 6 |  | *Fasciola hepatica* (Geelong) | MN970007 | Australia | This study |
| 7 |  | *Fasciola hepatica* | AY222244 | Saudi Arabia | Olson et al. (2003) |
| 8 |  | *Fasciola hepatica* | EU025874 | Egypt | Lotfy *et al.* (2008) |
| 9 |  | *Fasciola* sp. (hybrid, DL11) | MN970008 | Vietnam | This study |
| 10 |  | *Fasciola jacksoni* (Madu) | MN970006 | Sri Lanka | This study |
| 11 |  | *Fasciola jacksoni* | EU025871 | Sri Lanka | Lotfy *et al.* (2008) |
| 12 |  | *Fascioloides magna* | EU025872 | United States | Lotfy *et al.* (2008) |
| 13 |  | *Fascioloides magna* (Oktibehha) | KU232370 | United States | Lee et al. (2016) |
| 14 |  | *Parafasciolopsis fasciolaemorpha* | EU025869 | Poland | Lotfy *et al.* (2008) |
| 15 |  | *Fasciolopsis buski* (N2) | EU025870 | Vietnam | Lotfy *et al.* (2008) |
| 16 |  | *Fasciolopsis buski* (HT) | MN970005 | Vietnam | This study |
| 17 |  | *Fasciolopsis buski* (L2) | MF099785 | Vietnam | Dao *et al.* (2017) |
| 18 |  | *Fasciolopsis buski* (Megha) | KC602457 | India | GenBank |
|  | **Philophthalmidae (1)** |  |  |  |  |
| 19 |  | *Philophthalmus gralli* (PH#191) | JQ627832 | Peru | Heneberg *et al.* (2014) |
|  | **Echinostomatidae (19)** |  |  |  |  |
| 20 |  | *Drepanocephalus spathans* (HCC) | JN993270 | United States | Griffin *et al.* (2012) |
| 21 |  | *Drepanocephalus auritus* (MJG-DA) | KP053259 | United States | Pinto *et al.* (2016) |
| 22 |  | *Euparyphium capitaneum* (Jackson) | KP009618 | United States | Kudlai *et al*. (2015) |
| 23 |  | *Chaunocephalus ferox* | KT447522 | Ukraine | GenBank |
| 24 |  | *Isthmiophora hortensis* (Wakayama) | AB189982 | Japan | GenBank |
| 25 |  | *Cathaemasia hians* | KT956947 | Czech | Tkach *et al.* (2016) |
| 26 |  | *Echinoparyphium rubrum* | JF820595 | United States | Pullis *et al.* (2011) |
| 27 |  | *Echinoparyphium cinctum* | AF184260 | Ukraine | Tkach *et al.* (2001) |
| 28 |  | *Echinoparyphium ellisi* (EEAP2) | KY436410 | New Zealand | Georgieva *et al*. (2017) |
| 29 |  | Echinostomatidae sp.-(PS2w) | GU270100 | United States | GenBank |
| 30 |  | *Euparyphium* (cf. *murinum* VVT-2015) | KT956917 | Uganda | Tkach *et al.* (2016) |
| 31 |  | *Echinoparyphium aconiatum* | KT956912 | Czech | Tkach *et al.* (2016) |
| 32 |  | *Artyfechinostomum sufrartyfex* (Shillong) | KF781303 | India | GenBank |
| 33 |  | *Echinostoma bolschewense* (EBG13) | KP065591 | Slovakia | Georgieva *et al*. (2014) |
| 34 |  | *Echinostoma novaezealandense* (ENCA) | KY436407 | New Zealand | Georgieva *et al*. (2017) |
| 35 |  | *Echinostoma revolutum* | AY222246 | United Kingdom | Olson *et al*. (2003) |
| 36 |  | *Echinostoma paraensei* | EU025867 | United States | Lotfy *et al.* (2008) |
| 37 |  | *Echinostoma miyagawai* (Kherson) | KT956916 | Ukraine | Tkach *et al.* (2016) |
| 38 |  | *Echinostoma cinetorchis* (1) | KX817344 | South Korea | GenBank |
|  | **Echinochasmidae (10)** |  |  |  |  |
| 39 |  | *Echinochasmus beleocephalus* (Kherson) | KT956929 | Ukraine | Tkach *et al.* (2016) |
| 40 |  | *Echinochasmus japonicus* (Ej10) | JQ890579 | Vietnam | Besprozvannykh *et al.* (2013) |
| 41 |  | *Echinochasmus coaxatus* (Kherson) | KT956928 | Ukraine | Tkach *et al.* (2016) |
| 42 |  | *Microparyphium facetum* (Jackson) | KT956933 | United States | Tkach *et al.* (2016) |
| 43 |  | *Echinochasmus* sp.-VS2012 (Li48) | JQ088098 | Lithuania | Stanevičiūtė *et al.* (2015) |
| 44 |  | *Stephanoprora pseudoechinata* (NA) | KT956934 | United States | Tkach *et al.* (2016) |
| 45 |  | *Echinochasmus milvi* (Em01) | KT873315 | Russia | Besprozvannykh *et al.* (2017) |
| 46 |  | *Stephanoprora chasanensis* (Sc02) | KT873321 | Russia | Besprozvannykh *et al.* (2017) |
| 47 |  | *Echinochasmus donaldsoni* (Nelson) | KT956930 | United States | Tkach *et al.* (2016) |
| 48 |  | *Echinochasmus mordax* (Kherson) | KT956931 | Ukraine | Tkach *et al.* (2016) |
|  | SCHISTOSOMATOIDEA |  |  |  |  |
| 49 | **Schistosomatidae** | *Schistosoma haematobium* | AY157263 | Mali | Lockyer *et al.* (2003) |

\*References: Authors of accession numbers and articles are provided for finding their references.