|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna21 Ala (TGC) 114.4 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna10 Arg (TCG) 89.6 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna20 Asn (GTT) 103.1 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna7 Asp (GTC) 85.4 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna19 Cys (GCA) 76.2 bits** |
| tRNA-Ala | tRNA-Arg | tRNA-Asn | tRNA-Asp | tRNA-Cys |
| **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna22 Gln (TTG) 102.6 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna16 Glu (TTC) 102.1 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna9 Gly (TCC) 97.1 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna11 His (GTG) 102.4 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna4 Ile (GAT) 103.6 bits** |
| tRNA-Gln | tRNA-Glu | tRNA-Gly | tRNA-His | tRNA-Ile |
| **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna3 Leu (TAA) 101.6 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna13 Leu (TAG) 121.9 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna8 Lys (TTT) 105.2 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna5 Met (CAT) 114.8 bits** | tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna1 Phe (GAA) 88.6 bits |
| tRNA-Leu | tRNA-Leu | tRNA-Lys | tRNA-Met | tRNA-Phe |
| **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna15 Pro (TGG) 101.4 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna12 Ser (GCT) 53.0 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna17 Ser (TGA) 107.2 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna14 Thr (TGT) 82.0 bits** | **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna6 Trp (TCA) 96.3 bits** |
| tRNA-Pro | tRNA-Ser | tRNA-Ser | tRNA-Thr | tRNA-Trp |
| **tRNAscan-SE structure prediction for Oxyurichthys_ophthalmonema.trna18 Tyr (GTA) 102.8 bits** |  |  |  |  |
| tRNA-Tyr | tRNA-Val |  |  |  |

**Fig. S1.** Secondary structures of tRNAs of *Oxyurichthys ophthalmonema* mitogenome.