**Table S6.a Annotated *T. tenax* tRNA genes.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **tRNA-ID** | **Position**  |  | **Type** | **Anticodon** | **Intron position\*** |  |
|  | begin | end |  |  | begin | end |
| TTX\_trna\_1  | 16066  | 16173  | Met | CAT |  |  |
| TTX\_trna\_2  | 144008 | 144079 | Ala | GGC |  |  |
| TTX\_trna\_3  | 240023 | 240094 | Pseudo | GCG |  |  |
| TTX\_trna\_4  | 495405 | 495489  | Ser | GCT |  |  |
| TTX\_trna\_5  | 730801 | 730877 | Trp | CCA |  |  |
| TTX\_trna\_6  | 736409 | 736500 | Glu | TTC |  |  |
| TTX\_trna\_7  | 820042 | 820138 | Ile  | GAT |  |  |
| TTX\_trna\_8  | 876950 | 877079 | Glu | CTC |  |  |
| TTX\_trna\_9  | 919908 | 919991 | Ser  | TGA |  |  |
| TTX\_trna\_10  | 1252042 | 1252156 | Tyr | GTA |  |  |
| TTX\_trna\_11  | 1289234 | 1289341 | Gln | TTG | 1289290 | 1289306 |
| TTX\_trna\_12  | 1294478 | 1294571 | Met | CAT |  |  |
| TTX\_trna\_13  | 1374638 | 1374725 | Ala | TGC |  |  |
| TTX\_trna\_14  | 1423104 | 1423187 | Ser | GGA |  |  |
| TTX\_trna\_15  | 1494415 | 1494516  | Ser | CGA | 1494453  | 1494470 |
| TTX\_trna\_16  | 1503893 | 1503965 | Val  | GAC |  |  |
| TTX\_trna\_17  | 1505997 | 1506095 | Gly | CCC |  |  |
| TTX\_trna\_18  | 1510962 | 1511063  | Leu | TAG |  |  |
| TTX\_trna\_19  | 1565939 | 1566030 | Thr | GGT |  |  |
| TTX\_trna\_20  | 1685631 | 1685740 | Thr  | TGT |  |  |
| TTX\_trna\_21  | 1729009 | 1729129 | Gly | TCC |  |  |
| TTX\_trna\_22  | 1771869 | 1771798 | His | GTG |  |  |
| TTX\_trna\_23  | 1728670 | 1728551  | Lys | CTT |  |  |
| TTX\_trna\_24  | 1728492 | 1728399 | Arg | TCT | 1728453 | 1728435 |
| TTX\_trna\_25  | 1626841 | 1626730 | Pro  | GGG | 1626783 | 1626766 |
| TTX\_trna\_26  | 1621993 | 1621901 | Arg | GCG | 1621953 | 1621937 |
| TTX\_trna\_27  | 1591222 | 1591110 | Thr  | CGT | 1591162 | 1591146 |
| TTX\_trna\_28  | 1560706 | 1560585 |  Pro  | CGG |  |  |
| TTX\_trna\_29  | 1499962 | 1499860 | Leu | CAG |  |  |
| TTX\_trna\_30  | 1497453 | 1497351  | Leu | GAG |  |  |
| TTX\_trna\_31  | 1423334 | 1423250 | Leu | CAA |  |  |
| TTX\_trna\_32  | 1403947 | 1403855 | Pro | TGG |  |  |
| TTX\_trna\_33  | 1383958 | 1383839 | Lys | TTT | 1383896 | 1383875 |
| TTX\_trna\_34  | 1381178 | 1381058 |  Arg  | CCT | 1381115 | 1381094 |
| TTX\_trna\_35  | 1294391 | 1294304 | Ala | CGC |  |  |
| TTX\_trna\_36  | 1215120 | 1215016  | Asn  | GTT |  |  |
| TTX\_trna\_37  | 1213773 | 1213683 | Gln | CTG |  |  |
| TTX\_trna\_38  | 876533 | 876422 | Asp  | GTC |  |  |
| TTX\_trna\_39  | 766864 | 766762 | Arg  | CCG |  |  |
| TTX\_trna\_40  | 725282 | 725182 | Val  | TAC | 725245 | 725218 |
| TTX\_trna\_41  | 603212 | 603122  | Cys | GCA |  |  |
| TTX\_trna\_42  | 289669 | 289598 | Phe | GAA |  |  |
| TTX\_trna\_43  | 281175 | 281091 | Leu  | TAA |  |  |
| TTX\_trna\_44  | 60207  | 60135 | Val | CAC |  |  |
| TTX\_trna\_45  | 60067 | 59973 | Met | CAT |  |  |
| TTX\_trna\_46  | 40937 | 40818 | Gly  | GCC | 40897 | 40878 |
| TTX\_trna\_47  | 39371 | 39280 | Arg | TCG | 39333 | 39316 |

\*Only introns located between position 37 and 38 are listed.

**Table S6.b. Annotated genes encoding ribosomal proteins.** Rps, ribosomal proteins.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Rps** | **ORF ID** | **Rps** | **ORF ID** |
| **Small subunit** | S2p | TTX\_1898 | S3ae | TTX\_0716 |
|  | S3p | TTX\_1554 | S4e | TTX\_2098 |
|  | S4p | TTX\_1563 | S6e | TTX\_0099 |
|  | S5p | TTX\_1410 | S8e | TTX\_2084 |
|  | S7p | TTX\_1852 | S17e | TTX\_1925 |
|  | S8p | TTX\_1817 | S19e | TTX\_0582 |
|  | S9p | TTX\_1669 | S24e | TTX\_0913 |
|  | S10p | TTX\_0012 | S25e | TTX\_0177 |
|  | S11p | TTX\_1650 | S26e | TTX\_0164 |
|  | S12p | TTX\_1673 | S27ae | TTX\_0912 |
|  | S13p | TTX\_1562 | S27e | TTX\_0576 |
|  | S14p | TTX\_1816 | S28e | TTX\_2001 |
|  | S15p | TTX\_0719 | S30e | TTX\_0151/TTX\_0161  |
|  | S17p | TTX\_1530 |  |  |
|  | S19p | TTX\_1529 |  |  |
| **Large subunit** | L1p | TTX\_1805 | L7ae | TTX\_1999 |
|  | L2p | TTX\_1894 | L10e | TTX\_0511 |
|  | L3p | TTX\_1742 | L13e | TTX\_1480 |
|  | L4p | TTX\_1741 | L14e | TTX\_1857 |
|  | L5p | TTX0298a | L15e | TTX\_0936 |
|  | L6p | TTX\_1424 | L18e | TTX\_1671 |
|  | L10p | TTX\_1804 | L19e | TTX\_1825 |
|  | L11p | TTX\_1806 | L21e | TTX\_2081 |
|  | L12p | TTX\_1506 | L24e | TTX\_2000 |
|  | L13p | TTX\_1670 | L30e | TTX\_1675 |
|  | L14p | TTX\_1628 | L31e | TTX\_0585 |
|  | L15p | TTX\_1415 | L32e | TTX\_1822 |
|  | L18p | TTX\_1826 | L34e | TTX\_1989 |
|  | L22p | TTX\_1500 | L37ae | TTX\_0822 |
|  | L23p | TTX\_1740 | L37e | TTX\_1917a |
|  | L24p | TTX\_0915 | L39e | TTX\_0584a |
|  | L29p | TTX\_1553 | L40e | TTX\_2018 |
|  | L30p | TTX\_1409 | L44e | TTX\_0575 |
|  |  |  | LXa | TTX\_1811 |

**Table S6.c. Identified *T. tenax* tRNA synthetase genes.**

|  |  |  |
| --- | --- | --- |
| **ORF ID** | **gene**  | **tRNA synthetase**  |
| TTX\_0163 | *proS* | prolyl-tRNA synthetase |
| TTX\_0219 | *trpS* | tryptophanyl-tRNA synthetase |
| TTX\_0464 | *pheS* | phenylalanyl-tRNA synthetase alpha chain |
| TTX\_1527 | *pheT* | phenylalanyl-tRNA synthetase beta chain |
| TTX\_0514 | *alaS* | alanyl-tRNA synthetase |
| TTX\_0655 | *metS* | methionyl-tRNA synthetase |
| TTX\_0657 | *metS* | methionyl-tRNA synthetase  |
| TTX\_0808 | *hisS* | histidyl-tRNA synthetase |
| TTX\_0858 | *ileS* | isoleucyl-tRNA synthetase |
| TTX\_0930 | *valS*  | valyl-tRNA synthetase |
| TTX\_0953 | *aspS* | aspartyl-tRNA synthetase |
| TTX\_0996 &\_0997 | *gltX* | glutamyl- and glutaminyl-tRNA synthetase |
| TTX\_1000 | *asnS* | asparaginyl-tRNA synthetase |
| TTX\_1058 | *leuS* | leucyl-tRNA synthetase |
| TTX\_1538 | *thrS* | threonyl-tRNA synthetase |
| TTX\_1596 | *glyS* | glycyl-tRNA synthetase (class II) |
| TTX\_1618 | *tyrS* | tyrosyl-tRNA synthetase |
| TTX\_1640 | *serS* | seryl-tRNA synthetase |
| TTX\_1755 | *tyrS* | tyrosyl-tRNA synthetase |
| TTX\_1890 | *cysS*  | cysteinyl-tRNA synthetase |
| TTX\_1998 | *argS* | arginyl-tRNA synthetase |
| TTX\_2056  | *lysS* | lysyl-tRNA synthetase (class II) |