|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Locus name** | **Sub-family** | **TRP name** | **Chrom.** | **nb intron** | **prot. length** | **pI** | **MW** | **sub cell loc prediction** | ***O. rufipogon*** | **Remarks** |
| ***O. sativa*** | LOC\_Os01g07640 | ANK-TPR | OsTPR002 | 1 | 10 | 535 | 6.47 | 57162.31 | none | ORUFI01G04820 |  |
|  | LOC\_Os01g07980 | ANK-TPR | OsTPR003 | 1 | 7 | 281 | 8.13 | 31515.34 | none | ORUFI01G05130 |  |
|  | *LOC\_Os02g29030* | *ANK-TPR* | *OsTPR041* | *2* | *14* | *1669* | *6.67* | *183974.57* | *none* |  | *Not in MSU7.0* |
|  | LOC\_Os02g29040 | ANK |  | 2 | 11 | 303 | 6.59 | 32418.3 | none | ORUFI02G17950 | *O. rufipogon* annotation covers the *LOC\_Os02g29030* and *LOC\_Os02g29040* genes |
|  | LOC\_Os02g29130 | ANK-TPR | OsTPR042 | 2 | 10 | 381 | 6.79 | 41738.38 | plastid? | ORUFI02G18010 | *O. rufipogon* annotation covers the LOC\_Os02g29130, LOC\_Os02g29140 and LOC\_Os02g291160 *O. sativa* genes |
|  | LOC\_Os02g29140 | ANK-TPR | OsTPR043 | 2 | 11 | 442 | 6.46 | 47806.97 | mito? | ORUFI02G18010 | *O. rufipogon* annotation covers the LOC\_Os02g29130, LOC\_Os02g29140 and LOC\_Os02g291160 *O. sativa* genes |
|  | LOC\_Os02g29160 | ANK-TPR | OsTPR045 | 2 | 11 | 447 | 6.34 | 48150.38 | mito?chloro? | ORUFI02G18010 | *O. rufipogon* annotation covers the LOC\_Os02g29130, LOC\_Os02g29140 and LOC\_Os02g291160 *O. sativa* genes |
|  | LOC\_Os02g29190 | ANK-TPR | OsTPR046 | 2 | 9 | 357 | 5.19 | 39109.55 | mito? | ORUFI02G18040 |   |
|  | LOC\_Os02g29210 | ANK-TPR | OsTPR047 | 2 | 9 | 371 | 6.07 | 39783.22 | none | ORUFI02G18060 |   |
|  | LOC\_Os03g42350 | ANK-TPR | OsTPR090 | 3 | 10 | 397 | 5.18 | 43497.66 | none | ORUFI03G27240 |  |
|  | *LOC\_Os03g42620* | *ANK-TPR* | *OsTPR091* | *3* | *11* | *485* | *5.81* | *51318.13* | *mito?* |  | *Not in MSU7.0* |
|  | LOC\_Os03g42650 | ANK-TPR | OsTPR092 | 3 | 11 | 472 | 7.9 | 50188.34 | mito? | ORUFI03G27450 |  |
|  | *LOC\_Os03g42686* | *ANK-TPR* | *OsTPR093* | *3* | *13* | *541* | *6.04* | *59386.11* | *none* |   | *Not in MSU7.0* |
|  | *LOC\_Os03g42720* | *ANK-TPR* | *OsTPR094* | *3* | *9* | *441* | *8.17* | *48311.17* | *none* |   | *Shorter protein in MSU7.0* |
|  | LOC\_Os05g01310 | ANK-TPR | OsTPR116 | 5 | 12 | 460 | 5.37 | 49067.22 | none | ORUFI05G00250 |  |
|  | LOC\_Os08g13640 | ANK-TPR | OsTPR161 | 8 | 11 | 384 | 4.84 | 41620.07 | mito?chloro? | ORUFI08G07860 | Problem of annotation in O. rufipogon? |
|  | LOC\_Os09g03630 | ANK-TPR | OsTPR171 | 9 | 10 | 428 | 6.71 | 46741.54 | none | ORUFI09G01110 |  |
|  | LOC\_Os09g03680 | ANK-TPR | OsTPR172 | 9 | 9 | 405 | 6.4 | 43707.14 | none | ORUFI09G01140 |  |
|  | LOC\_Os09g03750 | ANK-TPR | OsTPR173 | 9 | 10 | 439 | 6.6 | 47728.93 | none | ORUFI09G01190 |  |
|  | LOC\_Os12g40770 | ANK-TPR | OsTPR211 | 12 | 10 | 423 | 5.84 | 46223.14 | none | ORUFI12G19940 | Problem of annotation in O. rufipogon? |
|  | LOC\_Os12g40780 | ANK-TPR | OsTPR212 | 12 | 11 | 387 | 6.64 | 42306.63 | none | ORUFI12G19950 |  |
|  | LOC\_Os12g43940 | ANK-TPR | OsTPR215 | 12 | 11 | 429 | 5.46 | 47073.47 | none | ORUFI12G22290 |  |
|  | *LOC\_Os12g43841* | *ANK-TPR* | *OsTPR216* | *12* | *11* | *439* | *5.43* | *48529.16* | *none* |   | *not in MSU7.0* |
|  |  |  |  |  |  |  |  |  |  |  |  |
| ***A. thaliana*** | At3g04710 | ANK-TPR | AtTPR071 | 3 | 14 | 680 | 5.9 | 74009.54 | mito? |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| ***Z. mays*** | GRMZM2g155314 | ANK-TPR | ZmTPR021 | 1 | 10 | 417 | 5.56 | 44843.61 | plastid?chloro? |  |  |
|  | GRMZM2g099366 | ANK-TPR | ZmTPR023 | 1 | 8 | 269 | 5.26 | 30492.78 | none |  |  |
|  | GRMZM2g098212 | ANK-TPR | ZmTPR180 | 8 | 12 | 456 | 5.04 | 48495.41 | plastid? |  |  |
|  | GRMZM2g536120 | ANK-TPR | ZmTPR201 | 10 | 8 | 376 | 5.11 | 40699.96 | plastid? Secretary pathway? |  |  |