

Table 3 supporting information Rauschendorf et al.

List of the species-specific oligonucleotides designed from genomic BAC sequences containing the homologous 5'UTR exon-T sequence upstream of the human and primates' *DDX3Y* gene (a genomic Y reference sequence is not yet published for the non-human primate species). The species-specific RT-PCR assays in the different primate tissues were performed with primer sets able to distinguish *DDX3Y* transcripts starting from the in human defined common "TSS-I region" or starting from the human "T-TSS-I" homologous region in exon-T (5'UTR exon-T extension-I), respectively, from the human "T-TSS-II" homologous region in *MSY2*. To distinguish putative 5'UTR exon-T extensions downstream of *MSY2* but extending beyond the putative "T-TSS-I" region, an additional primer set was designed in the homologous exon-T regions for a second exon-T RT-PCR assay, marked "5'UTR extension-II". Forward primers located at similar locations in the *MSY2* containing upstream region of the mouse *Ddx3y* gene were designed to include a comparative expression analysis for the mouse gene as an out group. The used homologous reverse primers always bridge the *DDX3Y* exon 2-3 sequence blocks.

| RT-PCR assay for: | species-specific primer seq.: | BAC code (with strand polarity): | BAC position: |
|---|-------------------------------|----------------------------------|---------------|
| TSS-I: | | | |
| Homo sapiens (Hsap) | CATATTACCGCGTAGGCTAA | RP11-475I1 (plus strand) | 55031 |
| Pan troglodytes (Ptro) | CATATTACCGCGTAGGTTAAGC | CH251-128L22 (minus strand) | 59139 |
| Macaca mulatta (Mmul) | CATATTACCGCGTAGGCTAA | CH250-541A11 (minus strand) | 83107 |
| Callithrix jacchus (Cjac) | GCCATTTTAAGACGGAGTCTAAG | CH259-161K20 (minus strand) | 51750 |
| Mus musculus (Mmus) | ACTCGTCAGTACGTTTGGG | RP24-208N6 (minus strand) | 93858 |
| T-TSS-I 5'UTR exon-T extension-I: | | | |
| Homo sapiens (Hsap) | TCAAGCTGTGCGAGCCTCTG | RP11-475I1 (plus strand) | 54362 |
| Pan troglodytes (Ptro) | TCAAGCCTGTGCGAGCCTCTG | CH251-128L22 (minus strand) | 59807 |
| Macaca mulatta (Mmul) | TCAAGCCTGTGCGAGCTTGTG | CH250-541A11 (minus strand) | 83781 |
| Callithrix jacchus (Cjac) | TCAAGCCCGTAAAGTATCTGG | CH259-161K20 (minus strand) | 52360 |
| Mus musculus (Mmus) | TAGAATAGTTCAGCAGAGACTAC | RP24-208N6 (minus strand) | 94231 |
| T-TSS-II (in <i>MSY2</i>): | | | |
| Homo sapiens (Hsap) | CTATGCCAGGGTGCCTTAAGG | RP11-475I1 (plus strand) | 54165 |
| Pan troglodytes (Ptro) | CTATGCCAGGGTGCCTTAAGG | CH251-128L22 (minus strand) | 60003 |
| Macaca mulatta (Mmul) | CTATGCCAGTGTTCGTTAAGG | CH250-541A11 (minus strand) | 83972 |
| Callithrix jacchus (Cjac) | CTCAGGTAGTGTGTGTTAAGG | CH259-161K20 (minus strand) | 52543 |
| Mus musculus (Mmus) | CTACCTGAAATGTACAAAGTG | RP24-208N6 (minus strand) | 94561 |
| 5'UTR exon-T extension-II (downstream of <i>MSY2</i>): | | | |
| Homo sapiens (Hsap) | CTGTGATGCTAAAGCCGTATGC | RP11-475I1 (plus strand) | 54263 |
| Pan troglodytes (Ptro) | CTGTGATGCTAAAGCCGTATGC | CH251-128L22 (minus strand) | 59906 |
| Macaca mulatta (Mmul) | CTGTGATGCTAAAGCCGTATGC | CH250-541A11 (minus strand) | 83880 |
| Callithrix jacchus (Cjac) | CTGTGACGCTAAGGTCGTATGC | CH259-161K20 (minus strand) | 52459 |
| Mus musculus (Mmus) | CTGAAACTCCCTACTATCACTTG | RP24-208N6 (minus strand) | 94493 |
| reverse primer: exon 2-3 | | | |
| Homo sapiens (Hsap) | CCTTTGCTCGCTGTA CT TGC | RP11-475I1 (plus strand) | 57788 |
| Pan troglodytes (Ptro) | CCTTTGCTCGCTCTACTTGC | CH251-128L22 (minus strand) | 56363 |
| Macaca mulatta (Mmul) | CCTTTGCTCGCTGTA CT TGC | CH250-541A11 (minus strand) | 80367 |
| Callithrix jacchus (Cjac) | CGTCCTTTGCTTGCTGTA CT TGC | CH259-161K20 (minus strand) | 49060 |
| Mus musculus (Mmus) | CCTTTGCTCTCTGTATTTCC | RP24-208N6 (minus strand) | 91558 |

