

Fig. 1 supporting information Rauschendorf et al.

Genomic sequence region of the human Y chromosome reference in the NCBI database (acc. no. NC_000024; GRCh37) starting from position 15.014.702 upstream of the *MSY2* sequence block to position 15.016.892, the end of *DDX3Y* exon 1.

15.014.702 cagtgtagcagtgggcggtcatttacatgccaaaatacatatattttattataaataattcttt
15.014.762 taattatataataaattaggtttgtagggccagaggggtgtcattgtgcatcatttgag
15.014.822 tttattttctttgggaggcaagagagaggaaaggaaggtcaaaaatggagaaggccaata
15.014.882 aatttattttatatacacgtgtgaatttaacttgagaatggtaaaggtgtcgacacaaaat
15.014.882 atgttataaaaaaggaaatctagttgacaactttaacttgccaaagcagtaaaccaactt
15.015.002 cactctgggaacactgaatagaaagtgtatgttccaatcactttgaaatgttttaatttta
15.015.062 aattcggaaaagcagaaaatatttgtgataatgttttgagaatggaggtatttgaatttta
15.015.122 gcactaggaaaccctttgaaggacgggtgtaaaatctggatatttaactctggtttcgctga
15.015.182 gagttcagaggggaagaagtgtttgtaaaaccacgtatatggctattagttaaagccagga
15.015.242 atctagtactaagctttttttttttttttttttttttttttttttctgcctgtctgctgaatctgg
15.015.302 actagagggaggactgagaatttggccaaaaaaagtaactccttctagggcaaaagacta
15.015.362 tttcccaccactgcagcgcctgtaagttgttacgaacgtaggacaactttgggtgtagtgtg
15.015.422 gttccttcagtaggcccgatccccctcaaccctcattcttttgggcaaccaaagagctctt
15.015.482 tcacaatcccatggctaggctggctttggggacgtagtatagcactggttaacctaggtt
15.015.542 gcaggggtgccaga | aaaacaaggacctatgccagtgctgcttaagggcctaggtcccc **MSY2**
15.015.602 ggtaggtgtgttatcaccagggtcattcagtatataattgtttcattgtttcgtg | aaaac
15.015.662 aaggacctatgccagggtgcttaagggcctagggcctaggtcccctgtaggtgtgtta
15.015.722 taatcaacgtcattcagtatgtaattgtttcattgtttcttcac | actatgccagggtgc
15.015.782 gttaagggcctagggcctaggtcccctggtaggtgtgttatcatcaacgtcattcagtatg
15.015.842 taattgtttcattgtttcttcac | actatgccagggtgcttaagggcctagggcctaggt
15.015.902 cccctggtaggtgtgttatcatcaacgtcattcagtatgtaattgtttcattgtttcttc
15.015.962 atcc | tgtgatgctaagccgtatgctcataaagcgcaggcacaccggtagaaaaactaga
15.016.022 ggggtctggagttccctaggtgaaccccagcagcctaaccctgtcaagtctgtcgagcctc
15.016.082 tggctggtcacacgtgctgcggaatccactcagctttcctcaggtgcagtcaggtccatc
15.016.142 ctgcagagggaccttctgcggaacctgttctttcacctccctaacctgaagattgtattca
15.016.202 aaccaccgtggatcgctcacgtaaaatggtcactgcgctaacacctgggatcccgtaac
15.016.262 ccttatctatcttggcttcagagagttttttgactagttccaactttgctgaagcttgtc
end of exon-Ta at 5'-GTsplice site
15.016.322 aaagGTaggtgacggctagttggaacggaaaaattttacgaaacttctattctcagaag
end of exon-Tb at 5'-GTsplice site
15.016.382 taaaaggggaagagagagtgttaaggaagaaggggaagttgaggGTgggtaaggaggaggagc
15.016.442 gggagttagtggttagattgtcactgtgtttaagatttcccccaaggcgaaaaaggcgaaaag
15.016.502 atatcttctagatccctagaattcgaaggcattaggagagggcggggatagcaaacatc
15.016.562 gcgcgaattttgagagggcgtgggactacgtaatcccgcgatcttatgactaaacgaacg

15.016.622 cgatttagggagagaagtaacggtagcgataaagggattgggtggtggtggtggaggggtgg
 15.016.682 agccaacgattacgcacggttgtgcgtgctgctatagctgtgggaggggccatattacc
exon-1a after 3'-AG splice site
 15.016.742 gcgtaggctaaccagtgcgcttaat**AG**ctgtaggtccagtgtaagagttccgctattcgg
exon-1b after 3'-AG splice site
 15.016.802 tctcacacctacagtggaactaccgatttttcgcttctcttc**AG**gg**ATG**AGTCATGTGGT
 15.016.862 GGTGAAAAATGACCCTGAACTGGACCAGCAG 15016892 **end of *DDX3Y* exon 1**

Sequence of *MSY2* repeats 1 to 4 (*MSY2-1* to *MSY2-4*) separated by “[”] is given with bold type letters. Location of the different MARP primer sequences listed in Table 1 of the supporting information (MARP1 to MARP4) are underlined in the corresponding Y reference positions. They were used for mapping the putative start of the testis specific *DDX3Y* testis transcript class in the second *MSY2* repeat by RT-PCR (Fig. 3a). Another transcriptional start site for five *DDX3Y* testis transcripts of the same class was mapped by the DBTSS database (<http://dbtss.hgc.jp>) downstream of *MSY2* at sequence position 15-016.018-15.016.019 (the corresponding dinucleotide “ta” is underlined and marked bold type).

The two different 5'-GT- splice donor and 3'-AG- splice acceptor sites given in boxed bold capital letters were identified by sequence analyses of the three exon-T splice variants, “Ta-1a”; “Ta-1b”; “Tb-1b”, as described in the main text. They mark the extension of exon-Ta and exon-Tb, respectively, the starts of exon-1a and exon-1b which are fused alternatively depending on the exon-T exon-1 splice event. The translational start codon “ATG” of the *DDX3Y* gene in exon 1 is marked bold type and italic. Begin of the *DDX3Y* open reading frame is given with capital letter code.