**Table S11. List of oligonucleotides used in this study**

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| --- | --- | --- | --- |
| **Application** | **Target** | **Forward primer (5’-3’)** | **Reverse primer (5’-3’)** |
| qRTPCR | U1 snRNA | TGATCACGAAGGTGGTTTTCC | GCACATCCGGAGTGCAATG |
| U2 snRNA | CTCGGCCTTTTGGCTAAGAT | CGTTCCTGGAGGTACTGCAA |
| U4 snRNA | AACTTTTCCCAATACCCCGC | GCCAGTGCCGACTATATTGC |
| U5 snRNA (pair 1) | CTGGTTTCTCTTCAGATCGC | GAGTTGTTCCTCTCCACGGA |
| U5 qPCR (pair 2) | GGTTTCTCTTCAGATCGCATAAATC | CTCAAAAAATTGGGTTAAGACTCAGA |
| U4 atac snRNA (pair 1) | GCGCATAGTGAGGGCAGTACT | GCACCAAAATAAAGCAAAAGCTCTA |
| U4atac snRNA (pair 2) | gcgcatagtgagggcagtact | gcaccaaaataaagcaaaagctcta |
| U6atac snRNA | aggttagcactccccttgacaa | tggcaatgccttaaccgtatg |
| U11 snRNA | GTGCGGAATCGACATCAAGAG | CGCCGGGACCAACGAT |
| U12 snRNA (pair 1) | GAGTAAGGAAAATAACGATTCGGGG | CAGGCATCCCGCAAAGTAGGC |
| U12 snRNA (pair 2) | GCCCGAATCCTCACTGCTAA | TCGCAACTCCCAGGCATC |
| U3 snRNA | CGGCAGATGTAGACCTAGCA | TTCCTCGTGGTTTTCGGTGC |
| U6 snRNA | CTCGCTTCGGCAGCACA | AACGCTTCACGAATTTGCGT |
| 5.8S | GGTGGATCACTCGGCTCGT | GCAAGTGCGTTCGAAGTGTC |
| actin | TCAAGATCATTGCTCCTCCTGAG | ACATCTGCTGGAAGGTGGACA |
| cetgs-1 | CGATGCATTCACTGGAGTTGGAGG | CTCGTGCACACTTAAGTCGAACAGG |
| ceact-1 | CCCAATCCAAGAGAGGTATCCTT | ATATCATCCCAGTTGGTGACGAT |
| SHMT2 exon 7 | TGACTGCTCGACTTTTCCG | CAGGTGTGCTTTGACTTCATC |
| SHMT2 junction exon 7-intron | TGATTCCCTCGCCTTTCAAG | CAACAGTGCCCCAGGAATAG |
| SHMT2 junction exon 8-intron | CTTCTCTGTCCCTTGTCCTTC | TCGGTCCTCAAATGTGTAAGG |
| northern blotting | U1 snRNA Probe | ATGCAGTCGAGTTTCCCACAT | |
| U6 snRNA probe | GGCCATGCTAAATGTTGTTCTTCTCTGTATCGTTCCAATT | |
| U3 snoRNA probe | CGTGTAGAGCACCGAAAACC | |
| U2 snRNA probe | CCTCGGATAGAGGACGTATCAGATATTAAACTATG | |
| 7SL snRNA probe | GTCTCGCTATGTTGCCCAGGCT | |
| 5S rRNA probe | CCGACCCTGCTTAGCTTCC | |
| U4atac snRNA probe | ctctagttgatgcgggtgt | |
| U5 snRNA probe | gctcaaaaaattgggttaagactca | |
| tRNA-Arg probe | CCCAGCTCCGGAGGCTGAT | |
| 3' race | Universal RT primer | CTACGTAACGATTGATGGTGCCTACAG | |
| U1 | GGCGTAGAGGTTAACCGTGAT | |
| U2 | TTCTCGGCCTTTTGGCTAAG | |
| U4atac | CCATCCTTTTCTTGGGGTTGCGCTAC | |
| U12 | AAATTTTTGCAAGGGCACAG | |
| Dmel U1 | GGCGTAGAGGTTAACCGTGAT | |
| Dmel U2 | CGGCCTTATGGCTAAGATCA | |
| PCR amplification | Drer-tgs1 | AAGCAGGCCAGGGTTCATAC | CACCCCTCGTGGTCAAGTTT |
| Drer-ef1α | CTTCTCAGGCTGACTGTGC | CCGCTAGCATTACCCTCC |
| FPGS-ENG | TGTGTTCGGAACCCCAGAGTG | GCCTAACTAACTGGCAGGGGAG |
| SEMA3B-LSMEM2 (1) | GAATGTACACAGAAGGCCTCACTG | GGAGCATTTAGCACAATCCACGG |
| SEMA3B-LSMEM2 (2) | GCCCACTTGTGAAGCTATCAGAGCC | CCAGTAGCAGGACTGGACAAATGCAGC |
| DCTN5-PLK1 (1) | AGGAGGTGGTGGTGTTGGCACC | TCTCTGTGCCTCCTTAGCACCCTC |
| DCTN5-PLK1 (2) | AGGAGGTGGTGGTGTTGGCACC | GCTGTCTGGCCTCCTCGCTACTGAA |
| DCTN5-PLK1 (3) | GCGATGCTACTGTTCCCTGGCC | GTCACTGCAGCACTCATGCTCCCG |
| SHMT2 | TGACTGCTCGACTTTTCCG | TCGGTCCTCAAATGTGTAAGG |
| Morpholino Oligonucleotides | *tgs1* splicing MO | AAGGTGAGGGTTTACTGCTTTACAT | |
| *tgs1* ATG MO | GGTGTCACTCATGCGTCGATCATG | |
| control MO | CCTCTTACCTCAGTTACAATTTATA. | |
| *Yn situ* probes for Single molecule FISH | YNST-U2-A1P1E | CTGATAAgaacagatactacacttgAACGTCAACGACAAGC | |
| YNST-U2-A1P2E | GAAAAAGCTCAACTGAGAATAAGAAAACGTCAACGACAAGC | |
| YNST-U2-A1P1O | AGAGAATCATACGTTActtagccaaaaggccgagaagcgat | |
| YNST-U2-A1P2O | AGAGAATCATACGTTAATTGAATTTCCATCCTGATTATTTA | |
| YNST-U1-A1P1E | CTCTGGGAGAACCCCCTTCGTGACCAACGTCAACGACAAGC | |
| YNST-U1-A1P2E | ACATTGAAGAAATCACAGAGATCAGAACGTCAACGACAAGC | |
| YNST-U1-A1P1O | AGAGAATCATACGTTAGGTCTCTTTCCTGCCAGGTAAGTGG | |
| YNST-U1-A1P2O | AGAGAATCATACGTTAACTCTAGAGTGCGATGAAGAAGCTT | |