

## S1 table

### Primer sets used for gene expression analysis in WT and *Brdt*<sup>-/-</sup> spermatocytes

| Gene          | Primer Forward             | Primer Reverse           | Reference |
|---------------|----------------------------|--------------------------|-----------|
| <i>Cdkl5</i>  | CTGAGCAGATGAAGCTTTTCTACAGT | TGAGGATGGTTAACAGCTGGAA   | [1]       |
| <i>Ddx3x</i>  | ATGAGTCATGTGGCAGTGGA       | GGTGGGATATAACGCCCTTT     | --        |
| <i>Pet2</i>   | TGACGATGACGACGAAGAAG       | CCCAGACTCTGCTCTTCCAC     | --        |
| <i>Scml2</i>  | ATCTTCCCAGTTGGATGGTG       | CTGGGGCCTCTTCTTCATTT     | [2]       |
| <i>Nxf2</i>   | GCCTGCTTCTCCTTGTC          | GCCCTCATTCTGGAGAGC       | [3]       |
| <i>Fmr1</i>   | GCAGATTCCATTTTATGATGTCA    | ACCACCAACAGCAAGGCTCT     | [4]       |
| <i>Gm5072</i> | GCCACTGAGGAAGAGGTCTG       | GGGACCCCATAGGAAGTCTCAT   | --        |
| <i>Huwe1</i>  | CCAGCCATCTCCTAGTGCTC       | CCCTAGCATGTCCCACAGTT     | --        |
| <i>Mlh1</i>   | TGCTGGCCTTAGACAGTCCT       | CAATCAGGTTCCCTTCCTCA     | --        |
| <i>Cdk2</i>   | CCCCAGAACCTGCTTATCAA       | GCAGCCCAGAAGAATTTTCAG    | [5]       |
| <i>Rad51</i>  | AGCCGGTTACCATACAGTGG       | GTGGTGAAACCCATTGGAAC     | --        |
| <i>Msh4</i>   | TCTACGAGCACATCCACTGC       | GCCATCCTTGTTTGATTGCT     | --        |
| <i>Dmc1</i>   | CCCAGATGTTGTCACGACTC       | AGCGGTTATTGCGAAGGTGG     | [6]       |
| <i>Cntd1</i>  | CGGATCGTGGAGTTTGT          | CAGCTCTGCAGCTCTGTGTC     | --        |
| <i>Rnf212</i> | ATCATCACAACAACCAGCTTTCAAC  | TAGTTACATCATCTCTCTAGAGTG | --        |
| <i>Arbp</i>   | CAAAGCTGAAGCAAAGGAAGAG     | AATTAAGCAGGCTGACTTGTTG   | [7]       |

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