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| **Table S1 Primers used in this study for reverse transcript PCR or sequencing.** |
| **lncRNAs ID** | **Forward primer: 5′-3′** | **Reverse primer: 5′-3′** |  **Description** |
| TCONS\_00126563 | AACTATGAACAGATGATGGTTAG | CACAGTCCGATAAATATCATTC | common lincRNA |
| TCONS\_00001000 | TCATTCTCTCACCCCCATCT | CACAAATTTACAGATCCAAACACAT | common lincRNA |
| TCONS\_00042272 | TTACCCACAAAAATAGTTTCTGTCC | CGGATAACAAGGGGCGACT | common lincRNA |
| TCONS\_00044615 | GTATTTTTGAGGTTGGCAC | CAGCTAATCAGTACTACTAAAGCT | common lincRNA |
| TCONS\_00075324 | CATAGTTTTCCTTGACTTTTCTGG | GGCGACCTCATTCGATCTAAT | common lincRNA |
| TCONS\_00282321 | TTTATCTGTACCCTTATTGTGGGCT | GATATGGCCTCAGTTTTGCTCAG | mutant specific lincRNA |
| TCONS\_00021834 | TTTGCCCCTGTTGTGGCT | TGGCCTCAGTTTTGCTCAGA | mutant specific lincRNA |
| TCONS\_00278700 | ATTCGCAGTGGAGCGAAC | AGAGTCACATATCCGTCTAGATTGA | mutant specific lincRNA |
| TCONS\_00180193 | CTTTTCTTCTGGATTGATAAATGG | TGGCCTCAGTTTTGCTCAG | mutant specific lincRNA |
| TCONS\_00299878 | CAGTCTTATCCATCCGCTTTATATC | AGATCCCCAAATCCCCACAT | mutant specific lincRNA |
| TCONS\_00072134 | TCCTGGAATAACTTCTTGCATG | AGGAATAAATGGTGCTACTGGAG | common lncNAT |
| TCONS\_00094357 | GGAAACCGTGGATTCACAC | CAAGAATCCCCATAGCTCAAG | common lncNAT |
| TCONS\_00071317 | CTACAAACTAACACCAGTGAACATG | GGGTGTTGGAAGATTCTTCAGTAT | common lncNAT |
| TCONS\_00002230 | ATAATCACAATCCACGCGCA | ACTCCACCTCCCTAATCCACAG | common lncNAT |
| TCONS\_00041451 | CTCAGGTAGACCTACACGGGCA | CAAAAACAAACCCAGACACACAAAC | common lncNAT |
| TCONS\_00119416 | GAGCAAACACCGCTGGA | GGTTTTTTGCACTGCTAGATAAT | mutant specific lncNAT |
| TCONS\_00288966 | AACAACGAAGACACCATTCAG | ATAAACACTTGTCTAGAACAAACG | mutant specific lncNAT |
| TCONS\_00020347 | GGATGTGGCTCGTGACATG | CAAAGACTAAAGACCTTTCCTGC | mutant specific lncNAT |
| TCONS\_00116576 | AGGCGCTGCTACTTGC | CGGATGGAGTATTAAATAGGC | mutant specific lncNAT |
| TCONS\_00163953 | GGCAACTCGTACGCGAGATAAAG | GCCGATATACTGAAATTTTGATCCG | mutant specific lncNAT |