**Supplementary File 7: List of primers used for making *XIST* shRNA constructs and site directed mutagenesis at C328 and Y117.**

|  |  |
| --- | --- |
| *XIST*\_shRNA1 | F:5'GATCTGGAATATTTGCAATTATAAtacctgacccataTTATAATTGCAAATATTCCTTTTTC3'R:5'TCGAGAAAAAGGAATATTTGCAATTATAAtatgggtcaggtaTTATAATTGCAAATATTCCA3' |
| *XIST*\_shRNA2 | F:5'GATCTGGATATATTGCTTAATTTAtacctgacccataTAAATTAAGCAATATATCCTTTTTC3'R:5'TCGAGAAAAAGGATATATTGCTTAATTTAtatgggtcaggtaTAAATTAAGCAATATATCCA3' |
| *XIST*\_shRNA3 | F:5'GATCTGAATATTTGCAATTATATAtacctgacccataTATATAATTGCAAATATTCTTTTTC3'R:5'TCGAGAAAAAGAATATTTGCAATTATATAtatgggtcaggtaTATATAATTGCAAATATTCA3' |
| *XIST*\_shRNA4 | F:5'GATCTGCTTTAATTACATTTAATAtacctgacccataTATTAAATGTAATTAAAGCTTTTTC3'R:5'TCGAGAAAAAGCTTTAATTACATTTAATAtatgggtcaggtaTATTAAATGTAATTAAAGCA3' |
| C328S-VIM | F:5’CAGGTGCAGTCCCTCACCTCTGAAGTGGATGCCCTTAAA3’R:5’TTTAAGGGCATCCACTTCAGAGGTGAGGGACTGCACCT3’ |
| Y117L-VIM | F:5’AATGACCGCTTCGCCAACCTCATCGACAAGGTGCGCTT3’R:5’AAGCGCACCTTGTCGATGAGGTTGGCGAAGCGGTCATT3’ |
| The lower case sequence in shRNA constructs forms the loop containing 13 nucleotides before the dicer acts to produce the mature shRNA. |