

**Supplementary information, Table S3** Short hairpin RNA sequences used for mRNA knockdown.

Gene	shRNA mir
<i>Filia</i>	5'-TGCTGTTGACAGTGAGCGCGGCAGCTATGTCATAGTTCAGTAGTG AAGCCACAGATGTACTGAACTATGACATAGCTGCCATGCCTACTGCCT CGGA-3'
<i>Floped</i>	5'-TGCTGTTGACAGTGAGCGCGCTGTTGGTTTGATCACATACTAGTGA AGCCACAGATGTAGTATGTGATCAAACCAACAGCATGCCTACTGCCTC GGA-3'
#1 <i>Blm</i> shRNA targeting 3'-UTR	5'-TGCTGTTGACAGTGAGCGATCAGAGCATCTGTAACAATTGTAGTGA AGCCACAGATGTACAATTGTTACAGATGCTCTGAGTGCCTACTGCCTC GGA-3'
#2 <i>Blm</i> shRNA targeting CDS	5'-TGCTGTTGACAGTGAGCGAAGACACAATCTGAAGTACTATTAGTGA AGCCACAGATGTATAGTACTTCAGATTGTGTCTGTGCCTACTGCCTC GGA-3'
#1 <i>Trim25</i> shRNA targeting 3'-UTR	5'-TGCTGTTGACAGTGAGCGATCAGTCACTGTGGTGTGATAATAGTGA AGCCACAGATGTATTATCACACCACAGTGAAGTGCCTACTGCCT CGGA-3'
#2 <i>Trim25</i> shRNA targeting CDS	5'-TGCTGTTGACAGTGAGCGCAGTGTCTCTGTCAAACAAGTATAGTGA AGCCACAGATGTATACTTGTGGTGGACAGAGACACTTTGCCTACTGCCTC GGA-3'