

**Supplementary information, Table S3. shRNA target sequences.**

<b>Name</b>	<b>Species</b>	<b>Sequences</b>
shZNF689-1	Human	CGACCTTTGCTCCAAGCGTTT
shZNF689-2	Human	GCTCTTGACACCCGGAGAGAA
shZnf689-1	Mouse	TGGTAGCCCTAGACCTCTTAT
shZnf689-2	Mouse	GAAGGACGTATTCCCACCTAA
shMUC19	Human	GGTAGTTCATCCTCTGGTGAC
shPGC	Human	CCTGGTACCAACTTCGTCTAT
shDHRS2	Human	TGCTAGGCTTTCTGTGAGGAT
shTDRD12	Human	GCCGAGACAGTACTGACATTG
shC20orf114	Human	GCAGGTCATGAACCTCCTAGT