

**Table S4. The sequences of off-target sites.**

Off-target site name	Target site (5' → 3')	Chromosome	Start	End	Sequence ID
DNMT3B OTS1	TGACTCCACCCTCAAAGAGATGG	chr9	110044660	110044682	NC_018920.2
DNMT3B OTS2	AGATCCCTCCCTCAAACAGAGGG	chr21	45240165	45240187	NC_018932.2
DNMT3B OTS3	AAATCCCCCCTTAAAGAGATGG	chr8	119849111	119849133	NC_018919.2
DNMT3B OTS4	ACAGCCCCCACTAAAAGAGAAGG	chr1	56912918	56912940	NC_018912.2
DNMT3B OTS5	AAAGCCACCCTCAAAGAGCTGG	chr17	27091752	27091774	NC_018928.2
DNMT3B OTS6	ATAACCCCCACACAAAGAGAGGG	chr11	28492092	28492114	NC_018922.2
MYOD1 OTS1	CCAGCATCTGGTCACAAGGCAGG	chr11	68097810	68097832	NC_018922.2
MYOD1 OTS2	GCAGCTGCTGTTCACAAAGCAGG	chr9	110838702	110838724	NC_018920.2
MYOD1 OTS3	GCACCAGCTGGTCAGAAAGCTGG	chr3	15168177	15168199	NC_018914.2
MYOD1 OTS4	CATCCAGCTGTTCACAAAGCTGG	chrX	129783770	129783792	NC_018934.2
EMX1 OTS1	TGCCCCGCCCTCCCTGGCCTGGG	chr19	10516439	10516461	NC_018930.2
EMX1 OTS2	AGCACCCCCCTCCCTGGCCCCGG	chr17	17702111	17702133	NC_018928.2
EMX1 OTS3	GGCCCCTGCCTCCCTGGCCACGG	chr11	60501562	60501584	NC_018922.2