

Sample ID	Total reads	Read length (bp)	Approximate coverage (x)
NM4-G1-28	226,900,000	100	613
NM4-G2-18	228,900,000	100	619
NM4-G3-32	129,800,000	100	351

**Table S3.** The exome sequencing coverage. 3 consecutive generations of mice from the NM4 H2A.B.3 KO colony were sequenced using paired-end sequencing with a 100bp read length.