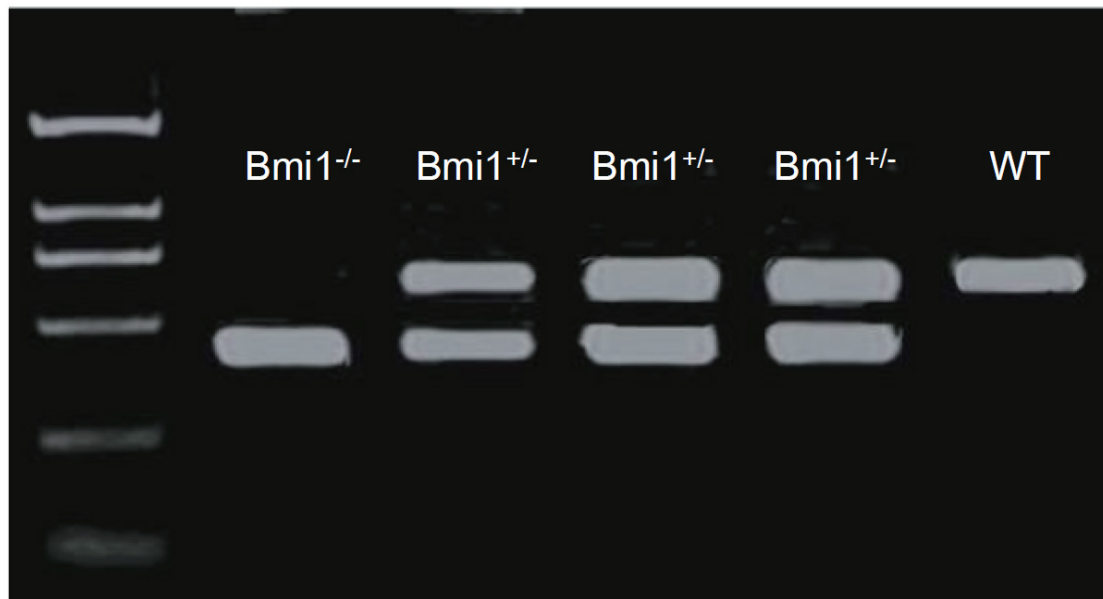


## Supplementary Materials

Figure S1



**The genotyping of *Bmi1*<sup>-/-</sup> mice.** DNA was extracted from mouse tail. Using specific primers, wild type or knockout *Bmi1* gene was amplified by PCR. The amplified product was subjected to agarose gel electrophoresis. The estimated length of wild type *Bmi1* is 687bp (upper), and the knockout *Bmi1* is 399bp (lower). Wild type mice showed only wild type *Bmi1*, *Bmi1*<sup>-/-</sup> mice showed only knockout *Bmi1*, and *Bmi1*<sup>+/-</sup> mice showed both wild type and knockout *Bmi1*.

**Table S1:**

Name	S/AS	Sequence	T <sub>m</sub> (°C)	Length(bp)
<i>Gpx1</i>	S	5'-CAATCAGTTCGGACACCAGGAG-3'	58	128
	AS	5'-TCTCACCATTCACTTCGCACTTC-3'		
<i>Gsr</i>	S	5'-GGATTGGCTGTGATGAGATG-3'	55	105
	AS	5'-CTGAAGAGGTAGGATGAATGG-3'		
<i>Cat</i>	S	5'-CAGGTGCGGACATTCTAC-3'	55	202
	AS	5'-TTGCGTTCTTAGGCTTCTC-3'		
<i>Gpx4</i>	S	5'-GATGGAGCCCATTCCCTGAACC-3'	60	185
	AS	5'-CCCTGTACTTATCCAGGCAGA-3'		
<i>Txnrd1</i>	S	5'-CCCACCTGCCCAACTGTT-3'	60	134
	AS	5'-GGGAGTGTCTTGGAGGGAC-3'		
Hsd3b1	S	5'-TGGACAAAGTATCCGACCAGA -3'	60	250
	AS	5'-GGCACACTTGCTTGAACACAG -3'		
Hsd17b1	S	5'-ACTTGGCTGTTCGCCTAGC-3'	60	117
	AS	5'-GAGGGCATCCCTGAGTCCTG-3'		
<i>Tnp1</i>	S	5'-ACCAGCCGCAAGCTAAAGAC-3'	60	120
	AS	5'-TTTCTACTTTTCAGGACGCTC-3'		
<i>Tnp2</i>	S	5'- TCACACCAGTAACCAGTGCAA-3'	61	272
	AS	5'-CCCTGAGCTACGCCTCTTAG-3'		
<i>Prm1</i>	S	5'- CCGTCGCAGACGAAGATGTC-3'	62	96
	AS	5'- CACCTTATGGTGTATGAGCGG-3'		
<i>Prm2</i>	S	5'-ATGGTTCGCTACCGAATGAGG-3'	62	221
	AS	5'-CTCCGCCTTCTGCATGACC-3'		
<i>H1fnt</i>	S	5'-GGCGCAGAACTTACGATCCA-3'	62	215
	AS	5'-GACTTCCCCTCGTGGTGAG-3'		
<i>Spem1</i>	S	5'-GGGTGGGCCTCGTATCAAAAC-3'	62	137
	AS	5'-ATGCGGATTTGGCTCCAGAG-3'		
<i>Bmil</i>	S	5'-ATCCCCACTTAATGTGTGCCT-3'	55	393
	AS	5'-CTTGCTGGTCTCCAAGTAACG -3'		

**Sequence of primers used for real-time RT-PCR.** Real-time RT-PCR primers used with their name, orientation (S, sense; AS, antisense), sequence, annealing temperature (T<sub>m</sub>), and length of amplicon (bp).