

Genotyping protocol

EMMA ID: EM:09799

Gene symbol: Bmx

Strain designation: FVB.D2(B6)-Bmx^{tm1Ali}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
BmxWT	GAA GCA GTT CTT CCA GAA TGG
BmxKO/wt	GTC AGG GAA GAG GTA ATA TGC
LacZ	CTC TTC GCT ATT ACG CCA

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	BmxWT	BmxKO/wt	230
Mutant	LacZ	BmxKO/wt	385

Reaction mix:

Component	Volume (µl)
Genomic DNA (~50-100 ng)	2.0
Primer 1 (10 µM)	1.5
Primer 2 (10 µM)	1.5
10x Buffer (15 mM MgCl ₂)	3.0
MgCl ₂ (25 mM)	1.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/µl)	0.1
H ₂ O	20.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
8 min	95	
40 sec	95	40
30 sec	60	
40 sec	72	
15 min	72	
∞	10	