



CNB-CSIC Mouse Embryo Cryopreservation Facility – Spanish EMMA node

GENOTYPING PROTOCOL

EMMA ID number	EM:05018
Mouse mutant strain	C3HeB/FeJ-Myo6Mhdatic/legWtsiCnbc
Gene/Locus affected	Myo6
MGI ID number	MGI: 104785
Mouse strain common name	Tailchaser
Owner/Provider of this mouse strain	Karen Steel
DNA primers for wild-type allele	Forward primer 5' -CAATATTATTGTTATTCAAGGATTTTTTTTGG-3' reverse primer 5' -AAATTAACAATACCTTCAACAATTCTATG-3'
PCR conditions for wild-type allele	Program: 1'94°;35x(30"95°,30"60°,30"72°);10'72° PCR product: bp
DNA primers for mutant allele	
PCR conditions for mutant allele	
Source of genotyping information	Provider or PubMed ID: 10900098, 18833301
Comments	Genomic DNA was amplified with a reverse primer that contains a 3' mismatch to artificially create a BclI restriction enzyme recognition site in the wild type DNA. The Tlc G694T mutation eliminates this newly formed restriction enzyme recognition site. Digesting the PCR product with BclI generates a single band of 118 bp in Tlc/Tlc mice, two bands of 32 bp and 86 bp in wild type mice and three bands of 118, 86 and 32 bp in Tlc/+ mice.