



CNB-CSIC Mouse Embryo Cryopreservation Facility – Spanish EMMA node

GENOTYPING PROTOCOL

EMMA ID number	EM:04923
Mouse mutant strain	C3HeB/FeJ-Chd7Whi/legWtsiCnb
Gene/Locus affected	Chd7
MGI ID number	MGI: 2444748
Mouse strain common name	Whirligig, Chd7Wh
Owner/Provider of this mouse strain	Karen Steel
DNA primers for wild-type allele	Fw: 5' -ACTCAGGGAATACCAATTGGAG-3' Rv: 5' -CAAAGAAAAGTCCAGCAAAC-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: 15916118, 16207732, 19809474, 19855134
Comments	PCR is done with the indicated primers followed by an MfeI restriction digest. An MfeI recognition site is present in the wild-type sequence but not in the Whi mutant sequence. The forward primer has a single base pair mismatch which introduces a recognition site for MfeI. Digesting PCR products with MfeI generates a single band of 204 bp for wild-type, two bands of 204 and 233 bp for Whi/+ and one band of 233 bp for Whi/Whi animals.