



EMMA
mouse repository



INFRAFRONTIER
mouse disease models

CNB-CSIC Mouse Embryo Cryopreservation Facility – Spanish EMMA node

GENOTYPING PROTOCOL

EMMA ID number	EM:04897
Mouse mutant strain	STOCK Myo7a4626SB/WtsiCnbc
Gene/Locus affected	Myo7a
MGI ID number	MGI:104510
Mouse strain common name	Myo7a4626SB
Owner/Provider of this mouse strain	Karen Steel
DNA primers for wild-type allele	Forward: 5' -GTGACCTCCGAGGGACATG-3' Reverse: 5' -AGAAAGATCTTGGTTTTGCCAGTC-3'
PCR conditions for wild-type allele	Program: 5'94°;35x(30''95°,30''57°,45''72°);10'72° PCR product: bp
DNA primers for mutant allele	
PCR conditions for mutant allele	
Source of genotyping information	Provider or PubMed ID: 14648237, 9435277, 9186010, 7870172, 18160714, 11753415, 12121736, 11222540, 10224267
Comments	Genotyping is performed by PCR followed by sequencing. These can also be genotyped by PCR followed by restriction digestion, but we have found this to be somewhat unreliable at times. The Myo7a4626SB mutation was genotyped by PCR using the indicated forward and reverse primers annealing at 57°C. Use platinum PCR Supermix (Invitrogen) mix. The reverse primer introduces a base change that in conjunction with the Myo7a4626SB mutation creates an Accl restriction site. Thus, upon Accl digestion (at 37°C) the mutant PCR product is cleaved into a 63 and 25 bp fragment, and the wild type product is not cut.