



**EMMA**  
mouse repository



**INFRAFRONTIER**  
mouse disease models

**CNB-CSIC Mouse Embryo Cryopreservation Facility – Spanish EMMA node**

**GENOTYPING PROTOCOL**

EMMA ID number	<b>EM:04898</b>
Mouse mutant strain	<b>STOCK Lmx1amtl/Cnbc</b>
Gene/Locus affected	<b>Lmx1a</b>
MGI ID number	<b>MGI: 1888519</b>
Mouse strain common name	<b>Mutanlallemande</b>
Owner/Provider of this mouse strain	<b>Karen Steel</b>
DNA primers for wild-type allele	PCR primers: Lmx1aEx4F 5' -CATCTGGGGAATATGGCATC Lmx1aEx4R 5' -CACGCAGCCCTTTAATATCC
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	
Comments	Sequence analysis of the Lmx1a gene has identified a single to A base pair change in the 3' splice site of exon four. Mtl animals are genotyped by PCR amplification of exon 4 and sequencing of the PCR product in the reverse orientation (forward primer is not a good sequencing primer).