

SJL/J Lgals3tm1Poi

Galectin 3 PCR protocol -

Taken from EMMA submission form –

Strain genetic description.

Gal3^{-/-} 129Sv mice were generated as in Colnot, C., Fowlis, D., Ripoche, M. A., Bouchaert, I. and Poirier, F. (1998). Embryonic implantation in galectin 1/galectin 3 double mutant mice. *Dev. Dyn.* 211, 306-313. As follows: 3.7kb of sequence, encompassing exon 2 through to 4, was replaced by a neomycin selection cassette. The construct was electroporated into WW6 embryonic stem cells. Correctly targeted ES cells were injected into outbred MF1 blastocytes and implanted into pseudo-pregnant dames. The resultant germ-line chimeric male offspring were crossed with female 129sv mice to produce heterozygotes for the recombined allele. To generate SJL/J Lgals3 KO mice, homozygote Gal3^{-/-} 129SV was cross-bred with an SJL/J mouse. Backcross 2 - 10 were heterozygous Gal3^{-/-} SJL/J bred with SJL/J, heterozygous breeding was alternated each generation with male and female.

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Galectin 3:

Foward Gal3: CAC GAA CGT CTT TTG CTC

Reverse Gal3: TGA AAT ACTTAC CGA AAA GCT GTC TGC

Neo Gal3: GCT TTT CTG GAT TCA TCG ACT GTG C

35 cycles of : 94oC 45sec 55oC 30sec 72oC 1.5min

Product size:

Wildtype 298bp

Targeted allele 384bp.

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