

Genotyping MMRRC #352

We genotype the LCAD deficient mice (*Acadl tm1uab*) using Southern blot. Since this was an insertion mutation, there is no practical way to do a PCR analysis of all three possible genotypes. Please see Fig. 1 B in the attached publication. We can provide a template DNA for the *Acadl* probe (exon 3 and flanking intron), which we generate by PCR. We use an *EcoRI* digestion. We make the diagnosis from the three band pattern as shown in the paper. We often see a larger fragment above those three bands which is uninformative and can be ignored.

PCR primers for probe synthesis from genomic DNA

LD31 - AGTCTCTAGTTCCTAGTGAGG

LD32 - AGTCCTCCAAGAACTTAGCAAGT

PCR Conditions

Degrees C

94 - 2 min

94 - 30 sec

57- 30 sec X 32 cycles

72 - 1 min

72 - 7 min

304 bp fragment

Please contact me if you have questions.

Phil Wood

Philip A. Wood, D.V.M., Ph.D.
Metabolic Geneticist
Professor and Director, Division of Genomics
Department of Genetics
University of Alabama at Birmingham
Kaul Human Genetics Bldg. Room 620A
720 20th St. S (Courier Location)
1530 3RD AVENUE SOUTH (Post Office)
BIRMINGHAM, AL 35294-0024
Tel: 205-934-1303
FAX: 205-975-4418