

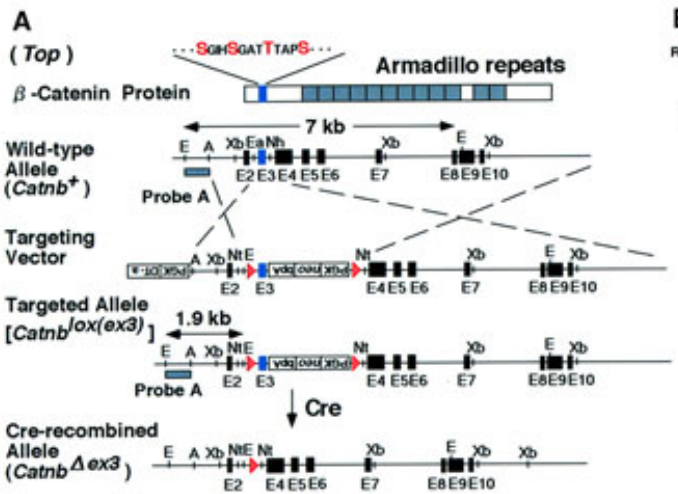
Ctnnb1^{tm1Mmt} (*Ctnnb1^{lox(ex3)}*, Beta-Catenin Gain of Function) Genotyping

JDW 3/12

From:

Harada N, Tamai Y, Ishikawa T, Sauer B, Takaku K, Oshima M, Taketo MM. Intestinal polyposis in mice with a dominant stable mutation of the beta-catenin gene. EMBO, 1999.

MGI#:1858008



Primers:

JDW 31 (MUT allele / 5'Ex2BCAT):

5'-TGCCTGGACAATGGCTACTCA

JDW 32 (Common Primer/ p85):

5'-CTAAGCTTGGCTGGACGTAAACTC

JDW 33 (WT allele/ BCAT-AS5):

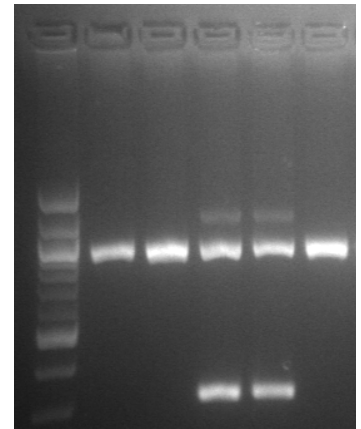
5'-ACGTGTGGCAAGTCCGCGTCATCC

WT allele: 894

MT allele: 300

Reaction Conditions:

10x CL buffer (Qiagen)	2.5µl	
Q solution (Qiagen)	2.5µl	
dNTPs (10mM each stock)	0.5µl	
Fwd primer-AKA "common" (20mM stock)	0.5µl	WT->
Rev-Mutant-AKA "5'Ex2Bcat" (20mM stock)	0.5µl	
Rev-WT-AKA "BCAT-AS5" (20mM stock)	0.5µl	
DNA	1µl	
Taq (Qiagen)	0.25µl	
H2O	16.75µl	GOF->



*Note: Original paper recommends two separate reactions for wildtype and GOF allele. We multiplexed this reaction and find that it works great using the Qiagen Taq and homemade Taq / reagents.

PCR Rxn:

95°x3 min
 95°x40 sec
 60°x1 min
 72°x 90 sec
 Repeat 34 additional cycles
 72°x 5 min
 12° for ever

From the paper:

BCAT-F1: 5'-GGTAGTGGTCCCTGCCCTTGACAC-3'

P85: 5'-CTAAGCTTGGCTGGACGTAAACTC-3'

for 35 cycles of 94°C for 30 s, 60°C for 1 min and 72°C for 1 min.