



CANCER
RESEARCH
UK

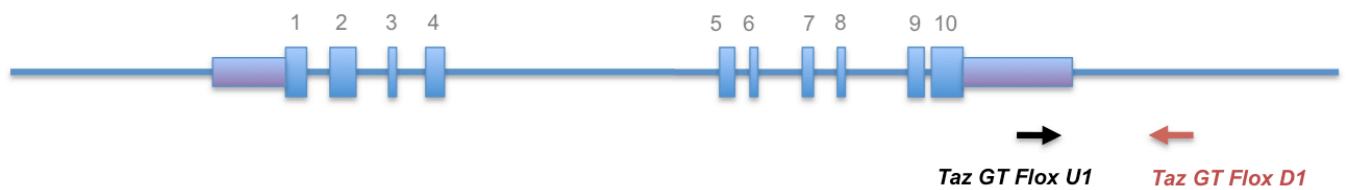
BEATSON
INSTITUTE

Allele Information

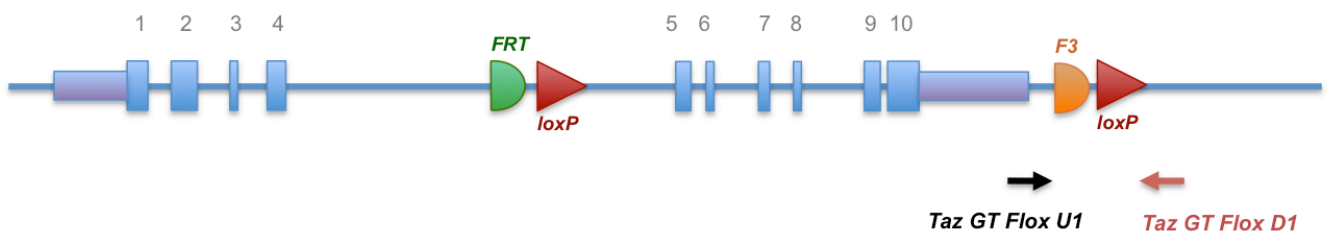
Basic Information

Name	Taz ^{Flox}
Modified Locus	Tafazzin

Mouse Taz wild-type allele



Mouse Taz Flox allele



Description of modified allele

This is a knockout allele of the Taz gene (Ensembl ID: ENSMUSG00000009995) generated by gene targeting by IKMC. The allele places loxP sites flanking exons 5-10 of the mouse Taz gene (Ensembl Transcript ID: Taz-001; ENSMUST00000069722.12 in Genome Assembly GRCm38.p5). A neo cassette used for the targeting was removed by Flp recombination resulting in the production of a flox allele. The KO was generated by Cre recombination at the loxP sites deleting

Genotyping

Mice carrying this allele can be genotyped with the following primers

Allele Information (continued)

Taz GT WT-Flox U1	CTTGCCCACTGCTCACAAAC
Taz GT WT-Flox D1	CAGGCACATGGTCCTGTTTC

These give the following band sizes

Taz Wild-type allele: 383bp
Taz Flox allele: 451bp

Primers should work under any standard PCR conditions; normally for a 1kb product we would use a standard Taq polymerase (e.g Go-Taq from Promega) according to the manufacturers protocol. For genotyping the KO allele normally use the D1 primer at double the concentration of the U1 primers.

Example PCR conditions below for Go Taq but should be adapted to PCR enzyme used

95°C 2min

95°C 30 secs	}	35 cycles
60°C 1 min		
72°C 1 min		

72°C 5 min

Transnetyx Probes

Following probes can all be used to genotype mice carrying the targeted allele

Taz-1 WT
Taz-1 MD

Related Alleles

A KO allele of Taz is also available, generated by Cre deletion of the Flox allele