



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ776	Date of Submission:	5-4-04
Lexicon Contract Name:	DNA492	Mutation Type:	X Standard Knock out
LexVision Name:	PRT308N1		☐ Conditional
Reference accessions:	NM_145403, ENSMUST00000034599	Is this gene X-linked?	no

Required Materials: X pKOS clone DNA(s) DNA492-kos44
X Target Vector DNA DNA492-44 FTV
X Targeted ES Cell DNA 1A2
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA492-26/27	DNA492-28/29
Restriction Enzyme for Genomic Digest:	Bgl I	BamHI
Predicted Wild-type Band (kb):	14.8	8.1
Predicted Mutant Band (kb):	8.3	5.5
Probe Size:	247 bp	270 bp

PCR Strategies:

For standard knockouts, give wildtype and mutant-specific strategies

For conditionals, give 5' loxP and cre-excision strategies

Wild type-specific (absent in targeted allele)		Mutation-specific product (absent in wt)	
5' Primer Name:	DNA492-30	5' Primer Name:	Neo3a
3' Primer Name:	DNA492-31	3' Primer Name:	DNA492-31
Predicted Wild-type Band (bp):	286	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	385

5' loxP strategy		Distinguish Cre-excised and wt	
5' Primer Name:		5' Primer Name:	
3' Primer Name:		3' Primer Name:	
Predicted Wild-type Band (bp):		Predicted Wild-type Band (bp):	
Predicted mutant band (bp)		Predicted mutant band (bp)	

Primer sequences:**Southern probes**

DNA492-26 5' – TCCTGTGCCTCACCCAATG
DNA492-27 5' – AGAGTTACATCCACAGGCTG
DNA492-28 5' – TCAGCAGTTCACAAAGGCTG
DNA492-29 5' – ACGTGAAGGAACCACTGATC

PCR Genotyping

DNA492-30 5' – AACTTCACAGAAGCACTGGCC
DNA492-31 5' – TGGGATTCAAACGTGGTCCTG
Neo3a 5' – GCAGCGCATCGCCTTCTATC

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Genomic Sequence Deleted:

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Genomic Locus: (the deleted sequence represents nt 17203-19958 in the sequence below)

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[illegible]

[illegible]

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