



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ746	Date of Submission:	01/12/2005
Lexicon Contract Name:	DNA392A	Mutation Type:	x Standard Knock out
LexVision Name:	ENZ585N1		☐ Conditional
Reference accessions:	NM_026651	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 52_____
X Target Vector DNA __DNA392-52TV_____
X Targeted ES Cell DNA __1B8_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	17/18	15/16
Restriction Enzyme for Genomic Digest:	BamHI	HindIII
Predicted Wild-type Band (kb):	9.4 kb	7.1 kb
Predicted Mutant Band (kb):	5.8 kb	9.8 kb
Probe Size:	431bp	385bp

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:	DNA392-23	5' Primer Name:	Neo3a
3' Primer Name:	DNA392-8	3' Primer Name:	DNA392-8
Predicted Wild-type Band (bp):	390 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	226 bp

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**

DNA392-17 5' – GCGTTCGACTAGGTGAT
DNA392-18 5' – TGCAGGACCTCAGGCTCTAAC
DNA392-15 5' – GTGGCCAGGGCTTAATCAG
DNA392-16 5' – CGACGATGCCAAAGTGGTAGG

PCR Genotyping

DNA392-23 5' – GCCAGGGTGAATAGCTG
DNA392-8 5' – GCTCAGTCTGGAACCTTGACC
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CCGCGCCGCGCGCCGCGCCCTAAGCGCCGCCGCCGCCCTCTCACCCCGCGGCGGCGGCGGCGGCGGAAGCGGCGGGGCGGGCGCGCGCGCGGGG
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CTGCACGGTGAAGTCTAGTGAGGCC

Genomic Locus: (the deleted sequence represents nt 8531 – 11107 in the sequence below; KOS52 used to generate the target vector represents nt 3639 – 13474)

TCATATGCAACAGCTCTTTGGGTGGACATGAGAGATTGCCATTGTTTGCATTCCCAACACATCTCAGAATCTGGCTCTTTACAGACTAGGGAACAAGAG
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[illegible]

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Selection Cassette:

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Targeted Locus:

[illegible]

[illegible]

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