



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ511	Date of Submission:	7-26-04
Lexicon Contract Name:	DNA394	Mutation Type:	X Standard Knock out
LexVision Name:	SEC371N1		☐ Conditional
Reference accessions:	AK008940	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 62_____
X Target Vector DNA __FTV-62_____
X Targeted ES Cell DNA __1F4_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	37/38	Neo2/5
Restriction Enzyme for Genomic Digest:	ScaI	EcoRV
Predicted Wild-type Band (kb):	9.8	N/A
Predicted Mutant Band (kb):	15	8.5
Probe Size:	339	609

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:	DNA394-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA394-4	3' Primer Name:	DNA394-8
Predicted Wild-type Band (bp):	223	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	284

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**

DNA394-37	5' – CACGCTGTTCCAAAGTCAAG
DNA394-38	5' – CCTTCCTCCATTGACCTCTA
Neo2	5' – CCTCAGAAGAAGTCTGTCAG
Neo5	5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

DNA394-3	5' – TTCCTACCACCTGGCCTGTT
DNA394-4	5' – ACCACGCCTGCAACAGGATA
DNA394-8	5' – CTATCCAGCTCCTGCTCACT
Neo3a	5' – GCAGCGCATCGCCTTCTATC

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Targeted Locus:

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