



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ871	Date of Submission:	10/5/04
Lexicon Contract Name:	DNA449	Mutation Type:	X Standard Knock out
LexVision Name:	SEC535N1		☐ Conditional
Reference accessions:	XM_128173 AK009031	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS30_____
 X Target Vector DNA __KOS30-FTV_____
 X Targeted ES Cell DNA __2C4_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	11+12	17+18
Restriction Enzyme for Genomic Digest:	EcoRV	EcoRI
Predicted Wild-type Band (kb):	8.5	26.7
Predicted Mutant Band (kb):	4.4	18.0
Probe Size:	191 bp	265 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:	19	5' Primer Name:	Neo3a
3' Primer Name:	20	3' Primer Name:	UNQ871-R2
Predicted Wild-type Band (bp):	287	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	396

Primer sequences:**Southern probes**

DNA449-11	5' – CCTGAGGCAAGTCTCTACACA
DNA449-12	5' – TGTTGAGCCCTGAGTCTAC
DNA449-17	5' – CAGACCACCGCTGTAGGCATT
DNA449-18	5' – TGAGGCTCTCCGCTGGC

PCR Genotyping

DNA449-19	5' – TGGCTCCAATGATTACTG
DNA449-20	5' – CTAGACGGGTGAGA
DNA449-21	5' – GCTGCAGAGCTATGGGACC
GT-IRES	5' –CCCTAGGAATGCTCGTCAAGA

UNQ871-R2	CATTGGACAACATATGTGACCCAGGTA
Neo3a	GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

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[illegible]

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