



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1911	Date of Submission:	4/7/04
Lexicon Contract Name:	DNA271	Mutation Type:	X Standard Knock out
LexVision Name:	SEC503N1		☐ Conditional
Reference accessions:	NM_023403	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS25_____
X Target Vector DNA __pKOS25 FTV_____
X Targeted ES Cell DNA __2E4, 2A4, 1B9_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	17/19	22/23
Restriction Enzyme for Genomic Digest:	NheI	HindIII
Predicted Wild-type Band (kb):	10.4 kb	6.8 kb
Predicted Mutant Band (kb):	15.2 kb	10.2 kb
Probe Size:	582 bp	624 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:	DNA271-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA271-4	3' Primer Name:	DNA271-6
Predicted Wild-type Band (bp):	472	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	338

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**

DNA271-7 5' – CTGCCATGTTTGTCAACCAG
 DNA271-19 5' – GAGTAATGAGTGGCATCCTC
 DNA271-22 5' – CAGTCTTTCCAAGGACCTTG
 DNA271-23 5' – CCACCAAGATATCTGATGGG

PCR Genotyping

DNA271-1 5' – GACAGGAGGAACCAGAACG
 DNA271-4 5' –GGAGATGCTCAGAAAGTGTGC
 DNA271-6 5' –TGGTGGAATGAAGAGAGACG
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

GCTACGGACTCCTCGGAGGCGGAGCCATTGGGACTTGAGTCCGCGAGGGTGGGACGGGGTCAAGTACTGGGTTTAGTCTGCGCAGAACACGCTTAGG
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Selection Cassette:

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[illegible]

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