



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ585	Date of Submission:	6/22/04
Lexicon Contract Name:	DNA168A	Mutation Type:	X Standard Knock out
LexVision Name:	SEC343N1		☐ Conditional
Reference accessions:	NM_009312; ENSMUST00000026466	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __ pKOS 54_____
X Target Vector DNA __TV54neo_____
X Targeted ES Cell DNA __2H6_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	36/37	38/39
Restriction Enzyme for Genomic Digest:	HindIII	BglII
Predicted Wild-type Band (kb):	17.6 kb	7.2 kb
Predicted Mutant Band (kb):	14.5 kb	3.1 kb
Probe Size:	319 bp	333 bp

PCR Strategies:

For standard knockouts, give wildtype and mutant-specific strategies

Wild type-specific (absent in targeted allele)		Mutation-specific product (absent in wt)	
5' Primer Name:	DNA168A-4	5' Primer Name:	Neo3a
3' Primer Name:	DNA168A-3	3' Primer Name:	DNA168A-13
Predicted Wild-type Band (bp):	424 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	323 bp

Primer sequences:**Southern probes**

DNA168A-36 5' – GTGCAAGGTCCTCCACCA
DNA168A-37 5' – ACTAGTGTGGAACACGGAG
DNA168A-38 5' – GTGCTGAGCAAGGCTAGCG
DNA168A-39 5' – ATAGTGTCTGCGCCAGCT

PCR Genotyping

DNA168A-3 5' – GCAGCTTGAGGAAACACAG
DNA168A-4 5' – GCACCAGAAAGGAGATCAG
DNA168A-13 5' – ACCAGATATCCAAGACACAG
Neo3a 5' – GCAGCGCATCGCCTTCTATC

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[illegible]

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Selection Cassette:

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[illegible]

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[illegible]

[illegible]

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