



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ6349	Date of Submission:	10.25.04
Lexicon Contract Name:	DNA462	Mutation Type:	X Standard Knock out
LexVision Name:	SEC606N1		☐ Conditional
Reference accessions:	BC030324	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS41_____
X Target Vector DNA __DNA462.41.TV1.10 Neo_____
X Targeted ES Cell DNA __1D7_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	1/2	19/20
Restriction Enzyme for Genomic Digest:	EcoR1	EcoR1
Predicted Wild-type Band (kb):	26.5 kb	26.5 kb
Predicted Mutant Band (kb):	7.8 kb	18.5 kb
Probe Size:	639 bp	504 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:	DNA462.F	5' Primer Name:	Neo3A
3' Primer Name:	DNA462.R	3' Primer Name:	DNA462.6
Predicted Wild-type Band (bp):	449 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	543 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**

DNA462.1 5' –GGCTTCATCAAGTCTTCTTGC
 DNA462.2 5' –CAGGTAGCCAACTTCAGTATT
 DNA462.19 5' – GTCTTTCCTATGGCAGGCAC
 DNA462.20 5' –CACCTGAAAGGCTTCAGGAG

PCR Genotyping

DNA462.F 5' – CAGTGGAGAAGAAGGTAAGAGACC
 DNA462.R 5' – TAACAGGTAGTGATGAGTGCTAGC
 DNA462.6 5' –GATGACTCTTTCAGAACATCC
 Neo3A 5' –GCAGCGCATCGCCTTCTATC

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Selection Cassette: LacZ/Neo

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Targeted Locus:

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