



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ544	Date of Submission:	5.2.06
Lexicon Contract Name:	DNA393	Mutation Type:	X Standard Knock out
LexVision Name:	SEC578N1		☐ Conditional
Reference accessions:	NM_138684	Is this gene X-linked?	NO

Required Materials:

☐ pKOS clone DNA(s) __pKOS-16_____

☐ Target Vector DNA __pKOS-16TVneo_____

☐ Targeted ES Cell DNA __1D1_____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13/14	19/20
Restriction Enzyme for Genomic Digest:	Bgl I	SpeI
Predicted Wild-type Band (kb):	16.2 +n (~25kb)	6.7
Predicted Mutant Band (kb):	8.0	9.1
Probe Size (bp):	368	238

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:	3	5' Primer Name:	Neo3a
3' Primer Name:	4	3' Primer Name:	10
Predicted Wild-type Band (bp):	238	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	199

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**

13 5' – GAAACTACCGATTCAATGCCAT
 14 5' – TTCCAAGGTGTCCCCTAAAT
 19 5' – GCAGATATAAGTGGAAACGGTG
 20 5' – TTGAATTTTAGTGTTACCGAGC

PCR Genotyping

3 5' – CACGCCCAGCAGAAACAGTAGAA
 4 5' – CTCGCCTGTACCCACTTACCCTC
 10 5' – TCTTCCAGGCTTTTCCTAGATG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

CA TGTGGCCAAACAGTATCTTGGTCTCATGACGCTCCTTATTTCCTCTACTCTGGTAACGGGAGGTGGAGTCAAAGGCGAGGGTAAGTGGGTACAGGC
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[illegible]

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Selection Cassette: LacZ/Neo

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Targeted Locus:

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[illegible]

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