



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ284	Date of Submission:	8/10/05
Lexicon Contract Name:	DNA051	Mutation Type:	X Standard Knock out
LexVision Name:	PRT344N1		☐ Conditional
Reference accessions:	NM_176913.3	Is this gene X-linked?	NO

Required Materials:

☐ pKOS clone DNA(s) __pKOS-84____

☐ Target Vector DNA __pKOS-84TVNeo____

☐ Targeted ES Cell DNA __1E6____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	22/23	26/27
Restriction Enzyme for Genomic Digest:	Acc65I (KpnI)	Acc65I (KpnI)
Predicted Wild-type Band (kb):	11.5	11.5
Predicted Mutant Band (kb):	6.4	3.6
Probe Size (bp):	500	301

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):	509	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	803

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**

22 5' – GGTTGAGCCCTCTTCAGCAATG
 23 5' – ATGGAGGCCTTGCGTATGG
 26 5' – CGCCAAAGAGAAAGGTCAGCAG
 27 5' – CCGCCAATTCCGATGAA

PCR Genotyping

3 5' – CTGCTGCCCTGGAAGGTATTC
 4 5' – TTCCGTGGCCTGCTTCTGTCTA
 10 5' – GTGCGAGTCTCGGGAATCTAC
 neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CCTTGAGGTTTCTGGGAGAGCTCTGGCCTCAAGAGCCTCAGACACCAGGCGTGGAGCCGCTGGACACAAGTAGCAGGTCTGAGGGCTTATCCATCTGC
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TACAGAGAGAGAGCTGCTGAGGAAGGTTGAAGAAATTGGTGCCCCAGAAA

Genomic Locus: (The deleted sequence represents nt 7356-9324 in the sequence below. KOS84 used to generate the TV represents nt 2879-11298 in the sequence below.)

GACTTCTGGTGGCTAGTGTAGCCTTTGGTCCATCAGGGTGTCTCTGCCCAAACCTGGAGGTTGGGGTGGGACGGGACATAATGATGAGAAGGGAAGTAG
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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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[illegible]

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