



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ757	Date of Submission:	5/12/05
Lexicon Contract Name:	DNA176A	Mutation Type:	X Standard Knock out
LexVision Name:	MSC316N1		☐ Conditional
Reference accessions:	NM_018777.2	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS-58_____
X Target Vector DNA __pKOS-58TV_____
X Targeted ES Cell DNA __1G7_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	31/32	35/36
Restriction Enzyme for Genomic Digest:	Acc65I	Bgl I
Predicted Wild-type Band (kb):	10.7	6.0
Predicted Mutant Band (kb):	9.5	3.8
Probe Size (bp):	471	480

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:	18	5' Primer Name:	Neo3a
3' Primer Name:	6	3' Primer Name:	16
Predicted Wild-type Band (bp):	584	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	319

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**

31 5' – TTCGTGGGCTCAGGGTACAAGTC
 32 5' – GCGGAAGACAGGAATCAGGTTAG
 35 5' – CTGGAAGGGCAGGTGATAAGTTA
 36 5' – CCTCCTTGCCTTCAAAGTAAGAT

PCR Genotyping

18 5' – CCAGCCTGGGCTACATAA
 6 5' – GCAGCGCCAACAGTGAGTCATA
 16 5' – CCTCCTTGCCTTCAAAGTAAGAT
 neo3a 5' – GCAGCGCATCGCCTTCTATC

CATCATGGCCCTCTACTGGTCTGCAAACTTTGGGGATCGTCTCTGACCCTGCTTGGCTGGGTCAACGCCCTGGTGTCTCTGTGCCCTGCCCATGTGGAAGGT
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AG

[illegible]

[illegible]

Targeted Locus:

[illegible]

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