



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ753	Date of Submission:	9/30/03
Lexicon Contract Name:	DNA277	Mutation Type:	X Standard Knock out
LexVision Name:	SEC215N1		☐ Conditional
Reference accessions:	ENSMUST00000022853 , NM_030888	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 79_____
X Target Vector DNA __TV 79_____
X Targeted ES Cell DNA __1C4_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	48+49	42+43
Restriction Enzyme for Genomic Digest:	XhoI	NsiI
Predicted Wild-type Band (kb):	>40 Kb	10 Kb
Predicted Mutant Band (kb):	16 Kb	15 Kb
Probe Size:	379	342

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:	50	5' Primer Name:	Neo3A
3' Primer Name:	51	3' Primer Name:	53
Predicted Wild-type Band (bp):	182	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	293

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**

DNA277-42 5' – TATGCACAACGGCAACACAGTC
 DNA277-43 5' – CTGAATCCTCCCAATCTAGTAG
 DNA277-48 5' – GTGCCACCAGAACTGCAGGTAAAC
 DNA277-49 5' – AAGTAGATGCATAGCCATTC

PCR Genotyping

DNA277-50 5' – CAATCAGAACAGTGGCATTAT
 DNA277-51 5' – CTCTCATTCCACTGCCTTATC
 DNA277-53 5' – TGGGCTCTCTCAGGATTAATTGGT
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TAGCAACTCACTTCAGCAATCAGAACAGTGGCATTATCTTCAGCAGTGTTGAGACCAACATTGGAAACTTCTTCGATGT
CATGACTGGGAGATTTGGGGCCCCGTATCAGGTGAGATGTAAGAATCAACAGACAAAGCCATTGTAAGAGAGAAAGCA
GACAGGAGGGCGAGAAAGAAGATAAGGCAGTGGAAATGAGAGGGAGAAGGAACTGGGAAGAAGAAAGGCAGGAAGG
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Genomic Locus: (the deleted sequence represents nt-14363-14719 in the sequence below)

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Selection Cassette:

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Targeted Locus:

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