



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ320	Date of Submission:	6-14-04
Lexicon Contract Name:	DNA360	Mutation Type:	X Standard Knock out
LexVision Name:	SEC547N1		☐ Conditional
Reference accessions:	NM_020622	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __KOS 27_____
X Target Vector DNA __FTV 27 NEO_____
X Targeted ES Cell DNA __2B8_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	30/31	9/10
Restriction Enzyme for Genomic Digest:	DraIII	Nco I
Predicted Wild-type Band (kb):	10.9	5.1
Predicted Mutant Band (kb):	7.9	3.8
Probe Size:	594 bp	390 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:	DNA360-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA360-4	3' Primer Name:	8
Predicted Wild-type Band (bp):	390	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	600

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**

DNA360-30 5' – GTCTGTGCTCATGTCGGAAACC
 DNA360-31 5' – TTCTTCATGGCCTGACCTAGTT
 DNA360-9 5' – GGGCTGGAAGAAGGTCATC
 DNA360-10 5' – CGGTCAGACGTGACGGAAGA

PCR Genotyping

DNA360-3 5' – CTGGGGACCATCCTATCAGA
 DNA360-4 5' – GCATGCTGCCCTTGTTTCATA
 DNA360-8 5' – AGCTGGAATGCGACCAG
 neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CTTTCATAGGTCCTTGGGGATTGCAGCCAAAGAGCTGAGTAGAAAAGAGAGCAGTTCCTGGAAGATGCGTCCAGTTGCTACAGGTGAGTACCAAGTACAGC
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Genomic Locus: (the deleted sequence represents nt 8287-12330 in the sequence below. KOS 27 used to generate the TV represents nt 2626-14646 in the contig below.)

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Selection Cassette:

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[illegible]

[illegible]

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