



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ464	Date of Submission:	11-29-04
Lexicon Contract Name:	DNA350	Mutation Type:	X Standard Knock out
LexVision Name:	SEC541N1		☐ Conditional
Reference accessions:	ENSMUST00000026660	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS.DNA350.37_____
 X Target Vector DNA __pKOS.DNA350.37 TV_Neo_____
 X Targeted ES Cell DNA __3C7_____
 X Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA350 13/14	DNA350 25/26
Restriction Enzyme for Genomic Digest:	Acc65I	BamHI
Predicted Wild-type Band (kb):	9.6	8.0
Predicted Mutant Band (kb):	7.2	5.8
Probe Size:	503	298

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:	DNA350-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA350-4	3' Primer Name:	DNA350-20
Predicted Wild-type Band (bp):	412	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	316

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**

DNA350-13	5' – CTCCCCTTCACTGATTTCCCACTG
DNA350-14	5' – CACCCATAGCTACCCACCCACAT
DNA350-25	5' – CCGCTTGGTGGGGAATGGTG
DNA350-26	5' – GCTCGGGCCTCTGCTATGAAAG

PCR Genotyping

DNA350-1	5' – GGGGGCAAAATTCACCTGTT
DNA350-4	5' – TACCGGGACTACTGGGGAGAAAA
DNA350-20	5' – CAGTCTGCCCTTGTCCACTC
Neo3a	5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

[illegible]

CCGTGCCGGCCTCCTTCAACATCAATATCACCATCAAGTCCAGCCCAGACCTGCTCACCTACTCCTGCCAGGCAACCTC
GAACTCTGGCACCTATGGACCCAGCAGCA

Genomic Locus: 10kb flanking the deletion *(The deleted sequence represents nt 11853--16464---in the sequence below.*

KOS37 used to generate the FTV represents nt 10833-19070 in the contig below.)

AATCCTTTCTTTACCATTTGTTTGCTTTTCTGGTGTGAACGGTGGGAGGAGGTGAGTGCCCCCGCTTGGCAGATGAGAA
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[illegible]

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Selection Cassette: LacZneo

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[illegible]