



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3018	Date of Submission:	2-18-04
Lexicon Contract Name:	DNA476	Mutation Type:	X Standard Knock out
LexVision Name:	SEC261N1		☐ Conditional
Reference accessions:	NM_030069	Is this gene X-linked?	NO

Required Materials:

X pKOS clone DNA(s) __pKOS51____

X Target Vector DNA __TV51____

☐ Targeted ES Cell DNA __1F4____

X Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	40/41	42/43
Restriction Enzyme for Genomic Digest:	Bgl I	SphI
Predicted Wild-type Band (kb):	19.6 kb	10.5 kb
Predicted Mutant Band (kb):	14.5 kb	7 kb
Probe Size:	547bp	502 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:	DNA476-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA476-4	3' Primer Name:	DNA476-26
Predicted Wild-type Band (bp):	456bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	276bp

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**

DNA476-40 5' – GATTGGGATCTGTGGACGC
 DNA476-41 5' – GCAAAGATCGCCAACC
 DNA476-42 5' – AGTCCAGGGGCTGACAGTA
 DNA476-43 5' – TGGGAAAGGGCTAAGGC

PCR Genotyping

DNA476-3 5' – GCCTCTCTAGATAGCTCT
 DNA476-4 5' – ACTCACAATCTCGATAAA
 DNA476-26 5' – ACCGGTGTCCAATAAAGAC
 Neo 3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GCATGAGACCATGAGGAGGATGCTTAGTCCTAGGTATGTACTTTCTGATCTTCCCGACTGGCTTCGCTACGGGGGCCAG
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Genomic Locus: (the deleted sequence represents nt 15193-16316 in the sequence below)

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[illegible]

[illegible]

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Selection Cassette:

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