



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2453	Date of Submission:	7-12-05
Lexicon Contract Name:	DNA471	Mutation Type:	X Standard Knock out
LexVision Name:	SEC349N1		☐ Conditional
Reference accessions:	NM_026328	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS73____

☐ Target Vector DNA __pKOS73.TV____

☐ Targeted ES Cell DNA __1D11____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	25+26	45+46
Restriction Enzyme for Genomic Digest:	EcoR I	Nde I
Predicted Wild-type Band (kb):	8.8 kb	15.6 kb
Predicted Mutant Band (kb):	5.4 kb	17.5 kb
Probe Size:	232 bp	475 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:	DNA471-40	5' Primer Name:	SEC349N1F
3' Primer Name:	DNA470-41	3' Primer Name:	GT-Ires
Predicted Wild-type Band (bp):	362 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	529 bp

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**

DNA470-25 5' – AAAGATAGAGAGCCTGGTGC
DNA470-26 5' – GGCTGTCCTACTTAATAGCC
DNA470-45 5' – CTGAACAACCTTGCAAACCC
DNA470-46 5' – GTTACCAAAGCTGTCACAGG

PCR Genotyping

SEC349N1F 5' – GATGAGAGGCAGATGGATAGACAC
DNA470-40 5' – AAAGAGTGAAGCCAGGCATTGC
DNA470-41 5' – GCAGCAGTATGGAATCTACTGG
GT Ires 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

AGTCATATGGAATGGATCCCATCTGGCATCTGTCTTGAATCAAAAGGAAGCCAGTGTGCATATCAAAGTACATAACTGGCTATCAGAGAAACCTGCCT
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TACAGCTGCTGGAAATCCCAGGACAAAGAGTGAAGCCAGGCATTGCGCTGAGATGAACCCCAAGGATAGTAAGTTCCCTGCCACCCCTCTCTC

Genomic Locus: (The deleted sequence represents nt 10769-12748 in the sequence below. KOS73 used to generate the TV represents nt-8385-18797 in the sequence below.)

[illegible]

TATCAAGATGAGAATGCAAAATCAGGTGGCCGTCAGAGAAGAGCCAGTCTGAGACGGTTGGAAGCCACCCTTAAGTCAAGGGTTGCAGAATAAAGAT
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Selection Cassette:

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Targeted Locus:

[illegible]

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