



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ516	Date of Submission:	2-25-04
Lexicon Contract Name:	DNA483	Mutation Type:	<input checked="" type="checkbox"/> Standard Knock out
LexVision Name:	SEC226N1		<input type="checkbox"/> Conditional
Reference accessions:	NM_019508	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __pKOS39_____
 X Target Vector DNA __TV39neo_____
 X Targeted ES Cell DNA __DNA483 #67_____
 X Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	17/18	19/16
Restriction Enzyme for Genomic Digest:	BamHI	EcoRI
Predicted Wild-type Band (kb):	11.9Kb	10.5Kb
Predicted Mutant Band (kb):	6.5Kb	7.9Kb
Probe Size:	566bp	307bp

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:	5	5' Primer Name:	Neo3a
3' Primer Name:	3	3' Primer Name:	3
Predicted Wild-type Band (bp):	360	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	285

Primer sequences:**Southern probes**

DNA483-16 5' – CACCCTACTCAGACTTGTTAAG
DNA483-17 5' – GGCCTGAGAGTATCCACAGG
DNA483-18 5' – AGCCAGTCTGGGATACAGAGGC
DNA483-19 5' – GCCTGATGGAGCAGGAGCCTAC

PCR Genotyping

DNA483-5 5' – CCGCAGCATCAACCACGAC
DNA483-3 5' - CGAACAAGCCCAATCAATGCC
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GAGGCCAGTCCCTTGGCCCCTGGGCCTCATCAGGTGCCGCTGGACCTGGTGTCTCGAGTAAAGCCCTACGCTCGAATG
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AGTCAATCTACAGCTGTGGTTGTCCAACAAGAGGAGCCTGTCCCATGGGGCTACAGGTAGGTGGGCTGGGCACAGCA
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GAGACCATCGCTGTGGGT

Genomic Locus: (the deleted sequence represents nt—10,322 to 12,547-----in the sequence below)

ACTGTATGGCCATGGGCAGGTTATTTCTCTTTCCTGGGACTCTTCTTCTTGTGTTTATAGTGACTTCACTTCCCTGTCC
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Selection Cassette: IRES/Bgal/MC1neo

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Targeted Locus:

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