



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ755	Date of Submission:	10/5/04
Lexicon Contract Name:	DNA455	Mutation Type:	X Standard Knock out
LexVision Name:	SEC433N1		☐ Conditional
Reference accessions:	ENSMUST00000043567, NM_019820	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS39, KOS69, KOS84_____
X Target Vector DNA __KOS84-FTV_____
X Targeted ES Cell DNA __1B7_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	10/11	16/17
Restriction Enzyme for Genomic Digest:	HindIII	XbaI
Predicted Wild-type Band (kb):	7.7	7.3
Predicted Mutant Band (kb):	6.5	11.8
Probe Size:	152 bp	146 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:	1	5' Primer Name:	Neo3a
3' Primer Name:	2	3' Primer Name:	9
Predicted Wild-type Band (bp):	632	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	301

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**

SEC433-10	5' – ACAACTATGCAGGAATAAGC
SEC433-11	5' – AATAAAGGCCAAAAAGTGATAA
SEC433-16	5' – TTGCCTGGGAAGTCATTGGT
SEC433-17	5' – GTGGCAGGCACACTGTTAGGA

PCR Genotyping

SEC433-1	5' – CAAGGTGTACAACCGCCAAAC
SEC433-2	5' – AGGAGGTGGGCCGTAGG
SEC433-9	5' – GTTCATGCTGGACCATTGGG
Neo3a	5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

[illegible]

Genomic Locus: (the deleted sequence represents nt 10,016-12,182 in the sequence below)

[illegible]

[illegible]

[illegible]

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Targeted Locus:

[illegible]

[illegible]

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