



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ715	Date of Submission:	
Lexicon Contract Name:	DNA282	Mutation Type:	☒ Standard Knock out
LexVision Name:	SEC528N1		☐ Conditional
Reference accessions:	NM_133778	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) __pKOS54_____
☒ Target Vector DNA __DNA282-pKOS 54-FTV_____
☒ Targeted ES Cell DNA __1C10_____
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA282-13/14	DNA282-15/16
Restriction Enzyme for Genomic Digest:	XhoI	XbaI
Predicted Wild-type Band (kb):	4.1 kb	9.1 kb
Predicted Mutant Band (kb):	8.4 kb	13.0 kb
Probe Size:	366 bp	367 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:	DNA282-7	5' Primer Name:	Neo3a
3' Primer Name:	DNA282-8	3' Primer Name:	DNA282-R
Predicted Wild-type Band (bp):	245 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	219 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**

DNA282-13 5' – CTGACCCTGCCATCTCCTGC
 DNA282-14 5' – GTCTCTTTTCAGGCTCTTCC
 DNA282-15 5' – CTTCCCATCTTGGCTCCTGC
 DNA282-16 5' – CAGAGAGTCTAACAGCAAGC

PCR Genotyping

DNA282-7 5' – GCCGAGCAGTTTGCTATTGC
 DNA282-8 5' – CTCGAGGTGTCAAGGTCAGC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC
 DNA282-R 5'- TCAGAGTGAATCACACCTACCAGG

Genomic Sequence Deleted:

GAGACACAGTCGCGATGCTGCCAAAGTCCGGAGAGCTCTAACCATCCAGGAGATCGCTGCACTGGCCAGATCGTCCCTGCATGGTATGTACCCCATG
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GGAGTGGCCGACAGCTTTGCTATTGTCAGAAGCCAAGCTCCGGGCATGGTCTTCAGTGGATGGTGATGACTCCACCGATGATTCTTACGACGAGGACTTT
ACTGGGGGAATTGACACAGGTGAGGAGT

Genomic Locus: *(The deleted sequence represents nt 10009 – 10831 in the sequence below. KOS54 used to generate the TV represents nt 8150 – 17413 in the sequence below.)*

[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

[illegible]

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