



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ287	Date of Submission:	7/13/05
Lexicon Contract Name:	DNA246	Mutation Type:	☒ Standard Knock out
LexVision Name:	MAS701N1		☐ Conditional
Reference accessions:	NM_177152.4	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) __pKOS-33_____
☒ Target Vector DNA __pKOS-33 TV Neo_____
☒ Targeted ES Cell DNA __1D12_____
☒ Genomic Map

Southern Blot Analysis: External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	15+16	5+6
Restriction Enzyme for Genomic Digest:	SpeI	EcoRI
Predicted Wild-type Band (kb):	>29	11.6
Predicted Mutant Band (kb):	13.7	5.3
Probe Size:	516	550

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:	DNA246-12	5' Primer Name:	Neo3a
3' Primer Name:	DNA246-9	3' Primer Name:	DNA246-2
Predicted Wild-type Band (bp):	494	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	400

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**

DNA246-5 5' –AGGTGGCCCACTAGATGTA
 DNA246-6 5' – CAGCTCACACCTCCTATGGCAATA
 DNA246-15 5' – CTTTGGTGTTGGCTGGTGATACGA
 DNA246-16 5' – GGCGGTGGTGGGTTAGAGA

PCR Genotyping

DNA246-2 5' – CAGTTGGGCCAGTTTCCTACATAA
 DNA246-9 5' –CGCATCGTCGTCCAAGAGCTGCC
 DNA246-12 5' –TTGTTATTGTCACGTGGCCGCG
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CGGGCCGAACCGGAGGCGGGCGGGCGCGGCGATGGGTGCTCCCGGACTCCGAGCGGCCACCGCGGGCGCTGGGACT
GCTGCTGTGCGCGGGGCTGGGGCGCGCGGGCCCCGGCGGGAAGCGGAGGGCCACGGGGCTCCCGGGCAGCTCTTGACG
ACGATCGCGCAGCGCCCGTGTCCAGCCGCCTGCCACTGCCTCGGGGACCTGCTGGACTGCAGCCGGCGGGCGGCTGGTTC
GCATTCCCGATCCTCTCCCGGCCTGGGTACACGGCTGTGAGTATCAGTATCATTCCGGTGGGGTGAAGGAGACCGGCC
CGCCAGGG

Genomic Locus: (The deleted sequence represents nt26192-26510-in the sequence below. KOS33 used to generate the TV represents nt19739-27377 in the sequence below.)

[illegible]

[illegible]

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Selection Cassette:

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[illegible]

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