



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ488	Date of Submission:	8.11.05
Lexicon Contract Name:	DNA305	Mutation Type:	X Standard Knock out
LexVision Name:	CHA364 N1		☐ Conditional
Reference accessions:	NM_175650	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS-63_____
☐ Target Vector DNA __pKOS-63TVPuro_____
☐ Targeted ES Cell DNA __1B5_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	34/35	Neo 2/5
Restriction Enzyme for Genomic Digest:	BamHI	Apal
Predicted Wild-type Band (kb):	8.6 kb	---
Predicted Mutant Band (kb):	3.9 kb	14.7
Probe Size:	252 bp	609 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:	DNA305-F2	5' Primer Name:	DNA305-F2
3' Primer Name:	DNA305-42	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	238 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	371 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**

DNA305-34	5' – GGAAGTGTCACATTGCC
DNA305-35	5' – AGCACCAGTAACATTAGGTT
Neo2	5' – CCTCAGAAGAACTCGTCAAG
Neo5	5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

DNA305-F2	5' – CAGACTGCTGACTCCAGTTCCTAA
DNA305-42	5' – CTTGGTTTATGACTGAGTGG
GT-IRES	5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

ATATATGAGGAAAAAGGCTCTTCTGCCTCCACTTATCCACACTGAAGTTTCTCTATAAGCAAGAACCAGAGGAACCTCTGGTAGCTGACCACCCTCAGT
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CTTTCCTCTGTGATGATCCCTGTTCTTCTTATTTGTGGTTGCAGCTACGATGCATCCAAGTGCAGAAAAATAAGGTACGTGTGGGATTTCTTGAAGAAG
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Genomic Locus: (The deleted sequence represents nt 10740 – 12212 in the sequence below. KOS-63 used to generate the TV represents nt 8639 – 18343 in the sequence below.)

GGTGTGTCTTCAGTAACGGGGAGTTGCTGTGGGTTTGTGGAGAGCAACCTGTAGCCTTGGCAACAGCTTGTGTTGTTTAGGGATTTCATGTGAGGCCCC
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[illegible]

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Targeted Locus:

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[illegible]

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CTACATACATGTAGATTTCTTCTGGAAGAAAACCTCTGAAAAACTCCCAAGTGTGTTGTAATGGGGGATTCTAAGACCAACACATTTACTGGACTGA

[illegible]