



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ604	Date of Submission:	12/9/04
Lexicon Contract Name:	DNA096	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM658N1		☐ Conditional
Reference accessions:	NM_172506	Is this gene X-linked?	NO

Required Materials: ☒ pKOS clone DNA(s) __pKOS-36, 61_____
 ☒ Target Vector DNA __61TVneo_____
 ☒ Targeted ES Cell DNA __1F5_____
 ☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	33+34	35+36
Restriction Enzyme for Genomic Digest:	AvrII	HpaI
Predicted Wild-type Band (kb):	6.2	8.7
Predicted Mutant Band (kb):	4.2	10.7
Probe Size (bp):	397	540

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:	7	5' Primer Name:	Neo3a
3' Primer Name:	37	3' Primer Name:	32
Predicted Wild-type Band (bp):	499	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	313

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**

33 5' – CACTCGGCTTTCAACCCAGCTAT
 34 5' – AAGTCATCCAAGCTTAGGCCTA
 35 5' – GTGCTTCTTGCCACACGGTCTT
 36 5' – TATCAAGGCCAAGTGGACACTA

PCR Genotyping

7 5' – GATGAAATTGCCTCTTGATACAG
 37 5' – TGCCGTACTCCTAAGAACTCTAA
 32 5' – TGTCGATGAGGGAAGAGGTAAA
 neo3a 5' – GCAGCGCATCGCCTTCTATC

[illegible][illegible]

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Selection Cassette: LacZ/Neo

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[illegible]

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