



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2998	Date of Submission:	2-7-06
Lexicon Contract Name:	DNA250	Mutation Type:	x Standard Knock out
LexVision Name:	MEM680N1		☐ Conditional
Reference accessions:	NM 145557	Is this gene X-linked?	no

Required Materials:

- x pKOS clone DNA(s) __pKOS-39__
- x Target Vector DNA __pKOS-39 TVneo__
- x Targeted ES Cell DNA __2B4__
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	9 + 10	11 + 12
Restriction Enzyme for Genomic Digest:	ApaLI	ApaI
Predicted Wild-type Band (kb):	10.8	6.3
Predicted Mutant Band (kb):	8.8	9.7
Probe Size:	252	248

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:	DNA250-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA250-8	3' Primer Name:	DNA250-8
Predicted Wild-type Band (bp):	509	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	358

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**

DNA250-9 5' – TGGGTTGGTGTCTGAAGG
 DNA250-10 5' – GCCTTCTTTGTACACTGCAG
 DNA250-11 5' – AGACACTGAGATGATCTTGAC
 DNA250-12 5' – ACAGTAGTTCCTTGGTTTCTC

PCR Genotyping

DNA250-3 5' – TGTGCTCTGCCAACATAGGCTG
 DNA250-8 5' – GCATGGACTACACAAAGGTG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

[illegible]

TGAGCCGACAGACACCTTTCCATCCGAGCAGAACGATTTATAGTGAAAGAAAGAGGTTGCTAGTGTCTGCGTATGACTCTTCCCTCATACTAGTGCCTA
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[illegible]

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Selection Cassette:

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