



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2419	Date of Submission:	10-22-04
Lexicon Contract Name:	DNA039	Mutation Type:	X Standard Knock out
LexVision Name:	TRA334N1		☐ Conditional
Reference accessions:	NM_172282	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS-75_____
X Target Vector DNA __TV-75_____
X Targeted ES Cell DNA __1F2_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA039-20/DNA039-21	DNA039-10/DNA039-11
Restriction Enzyme for Genomic Digest:	XbaI	EcoRV
Predicted Wild-type Band (kb):	12.7	12.2
Predicted Mutant Band (kb):	5.6	8.0
Probe Size:	513	455

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:	DNA039-28	5' Primer Name:	Neo3A
3' Primer Name:	DNA039-9	3' Primer Name:	DNA039-9
Predicted Wild-type Band (bp):	428	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	338

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**

DNA0391-20 5' – TTTGCGGCCCCACTACAGATTGACT

DNA0391-21 5' – ACTGGACGCCCTGGAGGTAGAG

DNA0391-10 5' – CGTCCCTGCTTAGACATGC

DNA0391-11 5' – CTCCTAATGTTTCCACCTGTACAA

PCR Genotyping

DNA039-28 5' – GTATAATATTGGTTATCGTTGCAGGTCAAA

DNA039-9 5' – GAGTCAAGGCCAATCTGCACTACA

Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

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Genomic Locus: (the deleted sequence represents nt-6451-9802--in the sequence below)

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Selection Cassette:

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Targeted Locus:

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[illegible]

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