



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3026	Date of Submission:	11-2-04
Lexicon Contract Name:	DNA060	Mutation Type:	☒ Standard Knock out
LexVision Name:	PRT330N1		☐ Conditional
Reference accessions:	NM_172833	Is this gene X-linked?	No

Required Materials:

- × pKOS clone DNA(s) __pKOS48__
- × Target Vector DNA __pKOS-PRT330FTV-48__
- × Targeted ES Cell DNA __3F11__
- × Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	22+23	Neo2+5
Restriction Enzyme for Genomic Digest:	EcoRV	SacI
Predicted Wild-type Band (kb):	9.8	none
Predicted Mutant Band (kb):	5.9	8.7
Probe Size:	355 bp	607 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:	28	5' Primer Name:	Neo3a
3' Primer Name:	13	3' Primer Name:	13
Predicted Wild-type Band (bp):	458	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	312

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**

PRT330N1-22 5' – CTTAAGCTGACGAAATAACC

PRT330N1-23 5' – GAAGCGTGTCTGTACGTG

Neo-2 5' – TCAGAAGAACTCGTCAAG

Neo-5 5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

PRT330N1-13 5' – GATTACAACCCTGCAGATAAGC

PRT330N1-28 5' – CACCGGCGTAGCCATGTCTG

Neo3a 5' – GCAGCGCATCGCCTTCTATC

GTGCTTCTCTCTGTGAGGGCCTCGCGGIGCAGCCACTTCTCCTTCCGCTCCTGCGGCTCCCGGGACGGCGAGAGGCAAGCGGAAGGTGCGCGAACGCC
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Selection Cassette:

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