



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ599	Date of Submission:	6-11-04
Lexicon Contract Name:	DNA280	Mutation Type:	X Standard Knock out
LexVision Name:	SEC573N1		☐ Conditional
Reference accessions:	BC024408, ENSMUST00000058777	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __41__
 X Target Vector DNA __FTV 41 Neo__
 X Targeted ES Cell DNA __2D1__
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	DNA280 16/17	DNA280 18/19
Restriction Enzyme for Genomic Digest:	Eco RV	Bgl II
Predicted Wild-type Band (kb):	4.4	6.5
Predicted Mutant Band (kb):	6.2	12.6
Probe Size:	354 bp	305 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:	DNA280-5	5' Primer Name:	Neo3a
3' Primer Name:	DNA280-6	3' Primer Name:	DNA280-8
Predicted Wild-type Band (bp):	411	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	230

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**

DNA280 16 5' – CAAGGCGAACTTTACATACACC
 DNA280 17 5' – CTAGATGGACGTGTGAGCCCTTAC
 DNA280 18 5' – ATGGTTGCTGAATGGCTATGTGAG
 DNA280 19 5' – GGCCACGTAACTGTCACCAACTT

PCR Genotyping

DNA280-5 5' – GATGCCACACAGGAGCTTCG
 DNA280-6 5' – AGGCTGGAACCCCATATACA
 DNA280-8 5' – CTGGGCAAGTGAGGTCCGAT
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

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[illegible]

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Selection Cassette:

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Targeted Locus:

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