



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ745	Date of Submission:	1/7/05
Lexicon Contract Name:	DNA379	Mutation Type:	X Standard Knock out
LexVision Name:	SEC564N1		☐ Conditional
Reference accessions:	NM_001001803	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 88, pKOS 92_____
 X Target Vector DNA __pTV92-Bgeo_____
 X Targeted ES Cell DNA __1D5, 2A8_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	26 + 27	17 + 18
Restriction Enzyme for Genomic Digest:	EcoRV	BglII
Predicted Wild-type Band (kb):	8.4 kb	5.5 kb
Predicted Mutant Band (kb):	9.7 kb	12.7 kb
Probe Size:	214 bp	368 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:	DNA379-3	5' Primer Name:	DNA379-23
3' Primer Name:	DNA379-1	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	477 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	409 bp

Primer sequences:**Southern probes**

DNA379-17 5' – GGAAGTATTAGGACTGAATAC
DNA379-18 5' – GCATATGCTGACTTGGCATGTTC
DNA379-26 5' – TTTGTCTTGGCATTTATGCTT
DNA379-27 5' – GGGATTTTTCACTCTAAACCCT

PCR Genotyping

DNA379-1 5' – GCTTAGAGTCTATAGGAACCTG
DNA379-3 5' – CAAGCTGTGTACAGAGATCTTG
DNA379-23 5' – GCTTTGCGAGCCACTCGGGTCC
GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

[illegible]

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[illegible]

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Targeted Locus:

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