



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1940	Date of Submission:	11.12.04
Lexicon Contract Name:	DNA232	Mutation Type:	X Standard Knock out
LexVision Name:	SEC513N1		☐ Conditional
Reference accessions:	NM_173375	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 6, 11_____
X Target Vector DNA __pTV 11Bgeo_____
X Targeted ES Cell DNA __1B3_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	19+20	22+23
Restriction Enzyme for Genomic Digest:	AccI	BamHI
Predicted Wild-type Band (kb):	6.9	(7.5+n) ~10
Predicted Mutant Band (kb):	8.2	(6.6+n) ~9.1
Probe Size:	250 bps	325 bps

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:	DNA232-4	5' Primer Name:	DNA232-21
3' Primer Name:	DNA232-3	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	363	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	458

Primer sequences:**Southern probes**

DNA232-19 5' – GGTATCATCGGTACATCCTC
DNA232-20 5' – CAACGACTGTAAGTGTGGCC
DNA232-22 5' – GCTCCAACTGGATTCTGGG
DNA232-23 5' – GAAACACTTTGGGAGCTATG

PCR Genotyping

DNA232-3 5' – CTTGGGACTGTCCACTCTG
DNA232-4 5' – CTGCCATTGAATCCAGTCCTG
DNA232-21 5' – CCAGTTCCTTGGATGCTCC
GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

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[illegible]

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Selection Cassette: Bgeo/Puro

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