



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ11632	Date of Submission:	10.13.04
Lexicon Contract Name:	DNA333	Mutation Type:	X Standard Knock out
LexVision Name:	MEM723N1		☐ Conditional
Reference accessions:	ENSMUST00000043850, NM_145580	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 21, 69, 90_____
 X Target Vector DNA __TV21neo_____
 X Targeted ES Cell DNA __1D8_____
 X Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	23/24	25/26
Restriction Enzyme for Genomic Digest:	BamHI	EcoRI
Predicted Wild-type Band (kb):	16	12.3
Predicted Mutant Band (kb):	6.3	8.7
Probe Size:	197 bps	213 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:	DNA333-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA333-2	3' Primer Name:	DNA333-11
Predicted Wild-type Band (bp):	444	Predicted Wild-type Band (bp):	None
Predicted mutant band (bp)	None	Predicted mutant band (bp)	289

Primer sequences:**Southern probes**

DNA333-23 5' – CACAACACTAGTGCAAGATAG
DNA333-24 5' – CCAGAAGGATAAAATGATTGC
DNA333-25 5' – CTTGGCTAGCTGCCTGGGTG
DNA333-26 5' – CAAGTAAGGGGCAGGAACAG

PCR Genotyping

DNA333-2 5' – GGGAACAGAGGTTTGAGAGTG
DNA333-3 5' – GATGGTCTAGTGGGATTAGTGG
DNA333-11 5' – TGAAGCTCGATCAAGATTGTAC
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TGGGGCCAGCTGGCTTCTCTGGACAGTGGCGGTGGCAGTGTCTGCTCCTGACCCGGGCTGCGTCAATGGAAGCCTCTAGCTTCTGTGGCCACCTTGAGT
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TTACAGA

Genomic Locus: (the deleted sequence represents nt 8020-9902 in the sequence below)

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Selection Cassette: IRES.Bgl.MC1Neo

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Targeted Locus:

[illegible]

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