



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ301	Date of Submission:	11.12.04
Lexicon Contract Name:	DNA152A	Mutation Type:	X Standard Knock out
LexVision Name:	MEM550N1		☐ Conditional
Reference accessions:	NM_023059	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 15_____
X Target Vector DNA __pTV 15neo_____
X Targeted ES Cell DNA __1H11_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13/14	15/16
Restriction Enzyme for Genomic Digest:	BamHI	XbaI
Predicted Wild-type Band (kb):	5.2	20
Predicted Mutant Band (kb):	3.9	15.4
Probe Size:	236 bps	229 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:	DNA152A-17	5' Primer Name:	Neo3a
3' Primer Name:	DNA152A-18	3' Primer Name:	DNA152A-12
Predicted Wild-type Band (bp):	325	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	345

Primer sequences:**Southern probes**

DNA152A-13 5' – CATGATGCACGGGTATACT
DNA152A-14 5' – CAAGCTTCCAGGATGTGAC
DNA152A-15 5' – CACACTTCCTTGGAGCCTTG
DNA152A-16 5' – CTGTGGTGCTAGCTATGGT

PCR Genotyping

DNA152A-12 5' – TCAGGGTCTCATGATGGAG
DNA152A-17 5' – GTGCTTGGATACAGGCCAG
DNA152A-18 5' – TCTGGGCTTCCAGGAATCC
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

AGAGCCATGGCAGGTAGGCAAGCCAGAGAGGGCTAGGACAAAGTCTCCACCCCAATTTCTGACCGTCAGGCTGGCCCCGCATTGCTCTCTCTGTGC
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GCCCCATATCCAGCAGCCAGACCATGAGATCACGGTGGCAGCTTCCAGGGTAG

Genomic Locus: (*The deleted sequence represents nt 10109-13618 in the sequence below. KOS15 used to generate the TV represents nt 8838-17187 in the contig below.*)

CTTCTAATCCTTCCCAAACCATTTCCCCCAACTAAGGACACAGTATTCTAATATATGAGCCTACTGGGAGTGGGTAGGCATTCTCATTCAAACCATCACA
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Selection Cassette: LacZ/Neo

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[illegible]

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