



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ15964	Date of Submission:	2/2/05
Lexicon Contract Name:	DNA367	Mutation Type:	X Standard Knock out
LexVision Name:	MEM752N1		☐ Conditional
Reference accessions:	NM_025658	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) __KOS-3, 39_____
☐ Target Vector DNA __KOS39TVpuro_____
☐ Targeted ES Cell DNA __2C4_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	21/22	23/24
Restriction Enzyme for Genomic Digest:	BamHI	NdeI
Predicted Wild-type Band (kb):	10	9.8
Predicted Mutant Band (kb):	5.6	11
Probe Size (bp):	570	347

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:	1	5' Primer Name:	1
3' Primer Name:	3	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	280	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	356

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**

21 5' – TAGGCAGGTGGTTAGGTCACT
 22 5' – GTGTTTTCCTAGAGAACGGT
 23 5' – GTTCAGAGGTCACCCAATTCC
 24 5' – TAAACGCAAGTAGGGCATA

PCR Genotyping

1 5' – ATCACATGGGAAGATTTTCATTTGGAG
 3 5' – CCTGAGATTCAAAGATGTCTTACC
 GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

CCCTGGAAACCATGCAAGGACTGGCACAGACCACCATGGCAGTGGTTCCTGGAGGTGCTCCACCTTCAGAGAATTCTGTTATAAAATCACAAATGTGG
AACAAAGAACAAAAGAGAAATCTTGAAGGGGGAACCCAAAGTCCCTCGGGGTAAGACATCTTTGAATCTCAGGGGAGAATGATTTTGTAATATATAAAAT
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NN
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AACGATTCATGTCAGTGCTCTTACTGGCCCCATTTTGGGGATCAATAATGGTGAGTAATA

Genomic Locus: (The deleted sequence represents nt 6585-8535 in the sequence below. KOS39 used to generate the TV represents nt 4851-13860 in the sequence below.)

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[illegible]

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Selection Cassette: Bgeo/Puro

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