



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1928	Date of Submission:	10-8-04
Lexicon Contract Name:	DNA261	Mutation Type:	x Standard Knock out
LexVision Name:	MEM683N1		☐ Conditional
Reference accessions:	NM_183297	Is this gene X-linked?	no

Required Materials:

- ☐ pKOS clone DNA(s) __kos53__
- ☐ Target Vector DNA __DNA261-FTV53__
- ☐ Targeted ES Cell DNA __1D6__
- ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA261 12 + 13	DNA261 19 +20
Restriction Enzyme for Genomic Digest:	BamHI	BamHI
Predicted Wild-type Band (kb):	20.6	20.6
Predicted Mutant Band (kb):	14.1	5.1
Probe Size:	300 bp	330 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:	DNA261-7	5' Primer Name:	Neo3a
3' Primer Name:	DNA261-2	3' Primer Name:	DNA261-8
Predicted Wild-type Band (bp):	471	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	399

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**

DNA261-12 5' – AGAAGAGCTGAGAGTGGAAG
 DNA261-13 5' – CTCATTCGGCCTGGAGATG
 DNA261-19 5' – ACTGGAATGACAATGTCATGG
 DNA261-20 5' – AGAGCTTTGCCTGAAAAGTTC

PCR Genotyping

DNA261-7 5' – TCACTTCCCAGGTACAGAAG
 DNA261-2 5' – ACCAACAGCGAGAACTTGAG
 DNA261-8 5' – TCAATCTGCCTTCACTAGCG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

CCGAGATCGTGGAGTCCGGGAGGCCCCAGTACCTAGACTTGGCTCCCGCCATGGCCGGAGGGGGCGCCCGGGCCAGCAGCTCCCAGCGCCCGCATCT
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Selection Cassette:

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Targeted Locus:

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[illegible]

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