



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2501	Date of Submission:	5.13. 04
Lexicon Contract Name:	DNA044	Mutation Type:	<input checked="" type="checkbox"/> Standard Knock out
LexVision Name:	MEM665N1		<input type="checkbox"/> Conditional
Reference accessions:	ENSMUST00000016110, NM_019583	Is this gene X-linked?	No

Required Materials: x pKOS clone DNA(s) __KOS38,KOS89_____
 x Target Vector DNA __TV89-3_____
 x Targeted ES Cell DNA __2G6_____
 x Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	13+14	7+8
Restriction Enzyme for Genomic Digest:	BamHI	MscI
Predicted Wild-type Band (kb):	15.2 kb	9.7 kb
Predicted Mutant Band (kb):	12.7 kb	5.0 kb
Probe Size:	243 bp	363 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:	MEM665N1-15	5' Primer Name:	Neo3a
3' Primer Name:	MEM665N1-16	3' Primer Name:	MEM665N1-6
Predicted Wild-type Band (bp):	426	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	299bp

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**

MEM665N1-13 5' – ATTTCCCTCGGTTTACGG
MEM665N1-14 5' – CCTCAATATAGACGGGAGTCAG
MEM665N1-7 5' – GGGCGTTCTCTAAGTCACTC
MEM665N1-8 5' – TCATGTTTGAAAGGAGGTTCTA

PCR Genotyping

MEM665N1-15 5' – GCCATGTTGCTAGTGTTGCT
MEM665N1-16 5' – GTCTTGTTTGTCATCATTAACCCA
Neo3a 5' – GCAGCGCATCGCCTTCTATC
MEM665N1-6 5' – ATTTGATGGAGCACCGCTAT

TCACTGGGCTCTTTGCTCAATCTTCCCAACATGGCCACATGGATTCAACTGCCTCTCTCTGCTTTTCACTCTCCTCATCTCTAACTGGCATAACAGGGATG
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Selection Cassette: LacZ/Neo

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Targeted Locus:

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