



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ6509	Date of Submission:	1.7.05
Lexicon Contract Name:	DNA465	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM817N1		☐ Conditional
Reference accessions:	ENSMUST00000024984 , BC054438, AA275962	Is this gene X-linked?	No

Required Materials:

- x pKOS clone DNA(s) KOS3
- x Target Vector DNA TV3-2
- x Targeted ES Cell DNA 1D4
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	20+21	Neo6/7
Restriction Enzyme for Genomic Digest:	Acc65I	SpeI
Predicted Wild-type Band (kb):	14.4 kb	none
Predicted Mutant Band (kb):	5.5 kb	10.0 kb
Probe Size:	224 bp	629bp

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:	-9	5' Primer Name:	Neo3a
3' Primer Name:	-19	3' Primer Name:	-10
Predicted Wild-type Band (bp):	211 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	303 bp

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**

DNA465-20 5' – GGAGCATCGATGTAGAAG

DNA465-21 5' – CGTTCGCAACAATTGTGC

Neo-6 5' – ACAAGATGGATTGCACGCAGGT

Neo-7 5' – CCAGCCGGCCACAGTCGATGAA

PCR Genotyping

DNA465-9 5' – CAGGGCTGCTATTTGTTG

DNA465-19 5' – GGCCACCTCTCTGCTATGTATCCC

DNA465-10 5' – GAGTCTAAGCTGAACAGTG

Neo3a 5' – GCAGCGCATGCCTTCTATC

[illegible]

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Selection Cassette: LacZ/Neo

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[illegible]

[illegible]

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