



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ779	Date of Submission:	11-5-04
Lexicon Contract Name:	DNA266	Mutation Type:	X Standard Knock out
LexVision Name:	MEM685N1		☐ Conditional
Reference accessions:	ENSMUST00000037600, NM_018778	Is this gene X-linked?	no

Required Materials: X pKOS clone DNA(s) __pKOS53_____
X Target Vector DNA __pKOS53 TV_____
X Targeted ES Cell DNA __2C1_____
X Genomic Map

Southern Blot Analysis: External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	23+24	25+26
Restriction Enzyme for Genomic Digest:	Hind III	Avr II
Predicted Wild-type Band (kb):	8.2 kb	10.0 kb
Predicted Mutant Band (kb):	7.8 kb	13.8 kb
Probe Size:	448 bp	403 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:	DNA266-28	5' Primer Name:	DNA266-28
3' Primer Name:	DNA266-4	3' Primer Name:	GT ires
Predicted Wild-type Band (bp):	418 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	351 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**

DNA266-23 5' – TGGCTTAGCTCTATTTGCCC
 DNA266-24 5' – ATAACCCCTCAACCAACAGG
 DNA266-25 5' – CCACAAACTAATGCTGACCC
 DNA266-26 5' – AGGATGGGGTGCAGTATCC

PCR Genotyping

DNA266-4 5' – GGATGGCTGTCATGAAAGCC
 DNA266-28 5' – GTTGTGAGCACATTTCTACAGG
 GT ires 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

[illegible]

Genomic Locus: *(The deleted sequence represents nt 9991-10721 in the sequence below. KOS53 used to generate the TV represents nt 5459-14006 in the sequence below.)*

[illegible]

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[illegible]

Selection Cassette:

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Targeted Locus:

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