



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ778	Date of Submission:	3-31-05
Lexicon Contract Name:	DNA428	Mutation Type:	x Standard Knock out
LexVision Name:	MEM797N1		☐ Conditional
Reference accessions:	ENSMUST00000035048, NM_019815	Is this gene X-linked?	no

Required Materials:

- x pKOS clone DNA(s) pKOS6_____
- x Target Vector DNA ____DNA428-TV6_____
- x Targeted ES Cell DNA ____1A5_____
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13 + 14	15 + 16
Restriction Enzyme for Genomic Digest:	HindIII	BamHI
Predicted Wild-type Band (kb):	14.4 kb	13.9 kb
Predicted Mutant Band (kb):	7.6 kb	10.5 kb
Probe Size:	428 bp	408 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:	DNA428-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA428-19	3' Primer Name:	DNA428-4
Predicted Wild-type Band (bp):	453	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	551

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**

DNA428-13 5' – CTGTCTTCACAGAGGTACTC
 DNA428-14 5' – TGAGTCAGTAGGCTCTGTCCT
 DNA428-15 5' – TGTGTAGTGCTCTAAGACCC
 DNA428-16 5' – TTTCCCTTGGTGGTCAAGCT

PCR Genotyping

DNA428-1 5' – GGGTTACTTGAGTTTCCTGAC
 DNA428-19 5' – ATGGACACGAGGATAACCGAT
 Neo3a 5' – GCAGCGCATCGCCTTCTATC
 DNA428-4 5' – TCCTGTGCATTGCTGGGTGT

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[illegible]

[illegible]

[illegible]

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Targeted Locus:

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