



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ422	Date of Submission:	10-21-05
Lexicon Contract Name:	DNA288	Mutation Type:	x Standard Knock out
LexVision Name:	MAS256N1		☐ Conditional
Reference accessions:	NM_027987.1	Is this gene X-linked?	no

Required Materials:

- x pKOS clone DNA(s) __pKOS11_____
- x Target Vector DNA __pKOS11 TV_____
- x Targeted ES Cell DNA __2C10_____
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	IRES 8 + 9	19 + 20
Restriction Enzyme for Genomic Digest:	NcoI	HindIII
Predicted Wild-type Band (kb):	----	9.3
Predicted Mutant Band (kb):	6.4	12.8
Probe Size:	291	577

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:	DNA288-4	5' Primer Name:	Neo3a
3' Primer Name:	DNA288-3	3' Primer Name:	DNA288-29
Predicted Wild-type Band (bp):	312	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	242

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**

IRES-8 5' – AGGAAGCAGTTCCTCTGGAA
 IRES-9 5' – CACATGTAAAGCATGTGCACC
 DNA288-19 5' – GAGGATGTCCTGAGAGATTG
 DNA288-20 5' – GTAGGGCTGCTGTTTAAGAG

PCR Genotyping

DNA288-3 5' – GGAGTCCATTACCTGGAAAG
 DNA288-4 5' – GTGGATTTGAAGGTGACACC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC
 DNA288-29 5' – GAGATTGGTACCAAGACTGC

[illegible][illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

[illegible]

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