



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ316	Date of Submission:	10-20-05
Lexicon Contract Name:	DNA201	Mutation Type:	x Standard Knock out
LexVision Name:	MAS247N1		☐ Conditional
Reference accessions:	NM_026345	Is this gene X-linked?	no

Required Materials:

- x pKOS clone DNA(s) __pKOS29____
- x Target Vector DNA __pKOS29 TV____
- x Targeted ES Cell DNA __1E1____
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	26 + 28	Neo2/5
Restriction Enzyme for Genomic Digest:	HindIII	ApaLI
Predicted Wild-type Band (kb):	16.7	----
Predicted Mutant Band (kb):	8.2	7.5
Probe Size:	672	609

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:	DNA201-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA201-3	3' Primer Name:	DNA201-39
Predicted Wild-type Band (bp):	250	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	360

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**

DNA201-26 5' – CATCAGCACCTGTGCATTTG
 DNA201-28 5' – GCTACTCCCTGAATTGCTTC
 Neo-2 5' – CCTCAGAAGAACTCGTCAAG
 Neo-5 5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

DNA201-1 5' – CTGAAGTAAACTGAGACCAG
 DNA201-3 5' – CCTGAGTTGCCAAGTGTATG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC
 DNA201-39 5' – GATCCTTATGCCACAGCATC

CAGAAGAGCCATCCTTGGTCTCTGCAGAGAGATCAAGACTAAGCAACAGTTCAGAATGCTCTTCAGGGGAACCAGCTTGGCTTACTCGTTGCTGGTCAT
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Selection Cassette:

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Targeted Locus:

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