



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ6118	Date of Submission:	02/24/2005
Lexicon Contract Name:	DNA257	Mutation Type:	☒ Standard Knock out
LexVision Name:	MAS246N1		☐ Conditional
Reference accessions:	NM_134159; ENSMUST00000032420	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) __pKOS-47
☒ Target Vector DNA __pKOS-47TVneo_____
☒ Targeted ES Cell DNA 1F5
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	27 + 28	Neo 2/5
Restriction Enzyme for Genomic Digest:	NsiI	HindIII
Predicted Wild-type Band (kb):	11.5 kb	---
Predicted Mutant Band (kb):	15.4 kb	9.3 kb
Probe Size (bp):	501 bp	609 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:	DNA257-upper	5' Primer Name:	Neo3a
3' Primer Name:	DNA257-lower	3' Primer Name:	DNA257-6
Predicted Wild-type Band (bp):	232 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	248 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

DNA257-27	5' - TGGGCTAATCATGGCTATTTGC
DNA257-28	5' – CCACATCTCTCAATTTTAGGCT
Neo 2	5' – CCTCAGAAGAACTCGTCAAG
Neo 5	5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

DNA257-6	5' - CCTCACTGCTCAGATCAGA
DNA257-Upper	5' – TAGTGAGTCTGGGACTATGGGAGG
DNA257-Lower	5' – CTAGCCACTGCCTATCTCCTTCC
Neo3a	5' - GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

[illegible]

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Selection Cassette:

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[illegible]

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