



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ588	Date of Submission:	1/30/04
Lexicon Contract Name:	DNA207A	Mutation Type:	X Standard Knock out
LexVision Name:	SEC319N1		☐ Conditional
Reference accessions:	NM_177638	Is this gene X-linked?	No

Required Materials:

- ✓ pKOS clone DNA(s) __pKOS50__
- ✓ Target Vector DNA __DNA207 TV__
- ✓ Targeted ES Cell DNA __2A8__
- ✓ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA207-11+12	DNA207-13/14
Restriction Enzyme for Genomic Digest:	KpnI	KpnI
Predicted Wild-type Band (kb):	10	6.7
Predicted Mutant Band (kb):	8.3	5.7
Probe Size:	327 bp	433 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:	DNA207-6	5' Primer Name:	Neo3a
3' Primer Name:	DNA207-10	3' Primer Name:	DNA207-10
Predicted Wild-type Band (bp):	285 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	325 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**

DNA207-11 5' – GATATTGGAGAGTTCTCTATTCC
 DNA207-12 5' – CTCTTCAGACAGTATACTTGG
 DNA207-13 5' – CAGAGTCTCCATCCTGTGAAG
 DNA207-14 5' – AGCCAAGATCCATCAATTACC

PCR Genotyping

DNA207-6 5' – GAAATTGATAGGGACAATAAAGG
 DNA207-10 5' – CAACCTCGAGTTGCTGATCTG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GGGGTTCCAGCTGGGAACCCGGGATGTGGAAACCTGAGCGAAGTCCCTCTCAGACGCTGGAGTCAGGTAGGGAGGCAGGGGCCGACGCTGTCTGTG
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CTGAAGTTGGGGTAAGACGCTTCAGATGAAC

Genomic Locus: (the deleted sequence represents nt 11848-15526 in the sequence below)

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[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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