



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ553	Date of Submission:	6-9-04
Lexicon Contract Name:	DNA206A	Mutation Type:	X Standard Knock out
LexVision Name:	MEM686N1		☐ Conditional
Reference accessions:	NM_016969	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __KOS 31_____
X Target Vector DNA __FTV 31 NEO_____
X Targeted ES Cell DNA __2G5_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	19/20	13/14
Restriction Enzyme for Genomic Digest:	Nde I	HindIII
Predicted Wild-type Band (kb):	7.9	10.7
Predicted Mutant Band (kb):	10.7	12.7
Probe Size:	347 bp	760 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:	DNA206A-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA206A-2	3' Primer Name:	11
Predicted Wild-type Band (bp):	468 BP	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	267 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**

DNA206A-19 5' – GGCCAACTCCACCCAGTCCTAA

DNA206A-20 5' – TAGATCCCATCCTACCGCTCTC

DNA206A-13 5' – GGATTCCCTAGAACGGCTTC

DNA206A-14 5'—TCCTGCCTTTCCCGATCTTC

PCR Genotyping

DNA206A-1 5' — AGGGAAGCAAGAAGTATA

DNA206A-2 5' – CAGGATGATGAGGGTAAC

DNA206A-11 5' – TGGTGGGCTTTCAGTAAGCCTG

Neo3a 5' – GCAGCGCATCGCCTTCTATC

CTACAACGTCATCCTCCACCACTGGGGGTCCGCTCGGGCGCTGACCCAGCCGCTGGGCCTCCTCCGCCTCCTGCAGCTAATATCCACCTGTGTGGCT
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GGTG

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Selection Cassette: LacZ/Neo

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Targeted Locus:

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