



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ502	Date of Submission:	10.14.04
Lexicon Contract Name:	DNA203A	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ742N1		☐ Conditional
Reference accessions:	NM_025330	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 93_____
X Target Vector DNA __FTV.DNA203.93 neo_____
X Targeted ES Cell DNA __2F2_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	27/28	33/34
Restriction Enzyme for Genomic Digest:	HindIII	HindIII
Predicted Wild-type Band (kb):	13.5 kb	13.5 kb
Predicted Mutant Band (kb):	6.4 kb	9.4 kb
Probe Size:	442 bp	555 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:	DNA203.6	5' Primer Name:	Neo3a
3' Primer Name:	DNA203.12	3' Primer Name:	DNA203.16
Predicted Wild-type Band (bp):	427 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	290 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**

DNA203.27 5' –CTAGCTCTGCCTCAGTTAATG
 DNA203.28 5' –CATACTGCTTCTAGTACTTGAG
 DNA203.33 5' – CTCAGTCCTTGCTTTCTCTG
 DNA203.34 5' –GTGAATTTCCCTGCTTAGAC

PCR Genotyping

DNA203.6 5' – GCTGAACGAGCCAAGGGAG
 DNA203.12 5' –CAGGTGACCAAATCGAGAGA
 DNA203.16 5' –GATCTGATTCCCTCTTCTGG
 Neo3A 5' –GCAGCGCATCGCCTTCTATC

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Selection Cassette

Targeted Locus:

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[illegible]

[illegible]