



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ469	Date of Submission:	10-1-04
Lexicon Contract Name:	DNA415	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ710N1		☐ Conditional
Reference accessions:	NM_024198	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS56____

☐ Target Vector DNA __FTV 56____

☐ Targeted ES Cell DNA __1A3____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	14+15	16+17
Restriction Enzyme for Genomic Digest:	EcoRI	EcoRI
Predicted Wild-type Band (kb):	8.6 kb	6.2 kb
Predicted Mutant Band (kb):	7.2 kb	5.2 kb
Probe Size:	352 bp	403 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:	DNA415-21	5' Primer Name:	Neo3a
3' Primer Name:	DNA415-10	3' Primer Name:	DNA415-10
Predicted Wild-type Band (bp):	377 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	283 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**

DNA415-14 5' – CGCTGTAGCTTGCTATTGAG
 DNA415-15 5' – CCTAGTGTAGAATTGGGAGTAC
 DNA415-16 5' – GTGATATGCTGAAGGCTGTATG
 DNA415-17 5' – GCACCAGAAATGGCATTTAGAG

PCR Genotyping

DNA415-10 5' – GCTCTTGGATTCAAATCATCC
 DNA415-21 5' – GGGTGCCAGAATTATACCAC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

[illegible]

Genomic Locus: (the deleted sequence represents nt13,188-15,814-in the sequence below)

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