



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3022	Date of Submission:	8/4/04
Lexicon Contract Name:	DNA059	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ712N1		☐ Conditional
Reference accessions:	NM_145835	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __pKOS 46_____
 X Target Vector DNA __DNA059-FTV46_____
 X Targeted ES Cell DNA __1C1_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	IRES 8/9	16/17
Restriction Enzyme for Genomic Digest:	NdeI	HindIII
Predicted Wild-type Band (kb):	N/A	22.4
Predicted Mutant Band (kb):	10.3	12.5
Probe Size:	291 bp	257 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:	ENZ712-1	5' Primer Name:	Neo3A
3' Primer Name:	ENZ712-2	3' Primer Name:	ENZ712-10
Predicted Wild-type Band (bp):	312	Predicted Wild-type Band (bp):	None
Predicted mutant band (bp)	None	Predicted mutant band (bp)	387

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**

IRES-8	5' – AGGAAGCAGTTCCTCTGGAA
IRES-9	5' – CACATGTAAAGCATGTGCACC
ENZ712-16	5' – TCTCAGATCCTGCTTCGACA
ENZ712-17	5' – GAGGAAGCATCTCTCAATGC

PCR Genotyping

ENZ712-1	5' – CTTAGGCATGGAGGAAGGTGAG
ENZ712-2	5' – TCCTTCTAGAACATTACGTGG
ENZ712-10	5' – CGCAGTGTTCAAGACACCAT
Neo 3a	5' – GCAGCGCATCGCCTTCTATC

[illegible][illegible]

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Selection Cassette:

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