



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3048	Date of Submission:	4/7/04
Lexicon Contract Name:	DNA412	Mutation Type:	X Standard Knock out
LexVision Name:	SEC572N1		☐ Conditional
Reference accessions:	ENSMUST00000023920	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS55_____
☐ Target Vector DNA __pKOS55 FTV_____
☐ Targeted ES Cell DNA __2B3_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External/</u>
Name of Probe:	11/13	15/17
Restriction Enzyme for Genomic Digest:	SphI	XbaI
Predicted Wild-type Band (kb):	14.9 kb	10.0 kb
Predicted Mutant Band (kb):	18.6 kb	12.0 kb
Probe Size:	546 bp	484 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:	DNA412-20	5' Primer Name:	Neo3a
3' Primer Name:	DNA412-19	3' Primer Name:	DNA412-19
Predicted Wild-type Band (bp):	568 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	305 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**

DNA412-11 5' – AGGACTAGCTGGCTTCAGA
 DNA412-13 5' – GCTTGTGCAATCTGGAATC
 DNA412-15 5' – GGACCCTCATTAAGGCTGT
 DNA412-17 5' – CCTCAGATAAGAGGAGAGC

PCR Genotyping

DNA412-20 5' – GAGAAAACCAACTCTCTGCC
 DNA412-19 5' –CTTCCCACTGTCCAGATGT
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

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Selection Cassette:

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[illegible]

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[illegible]

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