



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ678	Date of Submission:	9-29-04
Lexicon Contract Name:	DNA105	Mutation Type:	X Standard Knock out
LexVision Name:	MEM672N1		☐ Conditional
Reference accessions:	NM_020626	Is this gene X-linked?	Yes

Required Materials: ☐ pKOS clone DNA(s) __KOS33, KOS35_____
☐ Target Vector DNA __pKOS33TV_____
☐ Targeted ES Cell DNA __1B4_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13+14	18+19
Restriction Enzyme for Genomic Digest:	EcoRI	EcoRI
Predicted Wild-type Band (kb):	12.1 kb	12.1 kb
Predicted Mutant Band (kb):	4.9 kb	6.8 kb
Probe Size:	219 bps	263 bps

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:	3	5' Primer Name:	Neo3a
3' Primer Name:	12	3' Primer Name:	12
Predicted Wild-type Band (bp):	365 bps	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	300 bps

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**

13 5' – GCAGCAGGTGGTTCAACCCC
14 5' – GAGAAAAGCGTTTCGTGTTTGG
18 5' – CCTACTCTCCTGCATGTATC
19 5' – CCAATCTAAGTGCTCCTTAAC

PCR Genotyping

3 5' – TGCAGGGGGCACTAGTACAGATC
12 5' – CTCATTCTATCAGTGACTCCC
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

AATGTTGTGGGCGCTCTTTTTCTGGTGACTACTATTCCACGCTGAACTCTGCCATCCAGGTACGTAGCCTTGAAGCTTAA
 AAAATAAATTAACAGATTCTGAATGCTTGAAAAGTCATAGAGTGAGAAAAAAGAATGATTTTTTTTTCTTAAGT
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 TAGAA

Genomic Locus: (the deleted sequence represents nt8844-9327-in the sequence below)

[illegible]

[illegible]

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[illegible]

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Selection Cassette:

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