



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ771	Date of Submission:	10-6-04
Lexicon Contract Name:	DNA317	Mutation Type:	X Standard Knock out
LexVision Name:	MEM762N1		☐ Conditional
Reference accessions:	NM_022322	Is this gene X-linked?	Yes

Required Materials:

- ☐ pKOS clone DNA(s) __KOS24, KOS39__
- ☐ Target Vector DNA __pKOS24TV__
- ☐ Targeted ES Cell DNA __3A7__
- ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	IRES8+9	14+13
Restriction Enzyme for Genomic Digest:	HpaI	HpaI
Predicted Wild-type Band (kb):	-	20.8 kb
Predicted Mutant Band (kb):	14.9 kb	11.3 kb
Probe Size:	291 bps	699 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:	19	5' Primer Name:	23
3' Primer Name:	20	3' Primer Name:	24
Predicted Wild-type Band (bp):	205 bps	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	339 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**

IRES-8 5' – AGGAAGCAGTTCCTCTGGAA

IRES-9 5' – CACATGTAAAGCATGTGCACC

14 5' – CATGAGCTCAGTCGTCATATG

13 5' – CATCAGTAGCACCAGTATG

PCR Genotyping

19 5' – GAACTGTGAGGGCTGTCACATTC

20 5' – GAGCTTCTGCCTAAGCAAAGAACAG

23 5' – GCTGATTACCCTGTTATCCCTAC

24 5' – AAAGCTTCCAGGAGATTAACTC

Genomic Sequence Deleted:

GACCATGGCAAAGAATCCTCCAGAGAACTGTGAGGGCTGTCACATTCTAAATGTAAGTTGATTCATATATTTTTTCCCTT
TTGAGCAGGAGCAGCATTTTTGCAGATTTATCGTATTGCAAAGTGAACATTAGAAAGTGAAATTGAAGGAGACTTTGAA
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GAAGATATGTAAATCACTGAAGATTTGTGCACTAGTTTGATCCTGGCCTTAACTCTAATTGTCTGTTTGGGGGA
GCAAACACTTCTGGCCCCGAGGTATCCAAGAAAGTAAGTAA

Genomic Locus: (the deleted sequence represents nt13,872-14230-in the sequence below)

[illegible]

GCGCTAGAGAAAGTACCCAAGGAGCTAAAGGGATCTGCAACCCTATAGGTGGAACAACAATATGAACTAAGCAGTAC
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[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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