



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ841	Date of Submission:	10-6-04
Lexicon Contract Name:	DNA251	Mutation Type:	X Standard Knock out
LexVision Name:	SEC493N1		☐ Conditional
Reference accessions:	NM_030175	Is this gene X-linked?	No

Required Materials: ☐ pKOS clone DNA(s) __KOS55_____
☐ Target Vector DNA __pKOS55TV_____
☐ Targeted ES Cell DNA __2G1_____
☐ 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:	ApaI	ApaI
Predicted Wild-type Band (kb):	3.0 kb	8.7 kb
Predicted Mutant Band (kb):	2.1 kb	11.5 kb
Probe Size:	347 bps	325 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:	1	5' Primer Name:	Neo3A
3' Primer Name:	2	3' Primer Name:	9
Predicted Wild-type Band (bp):	403 bps	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	457 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**

14 5' – GCGCTGAGGATATACCCACA
 15 5' – GACAACATTCCTCGCCTATTA
 16 5' – AAAGGTGCTTCTCTGCGACAC
 17 5' – CCAGTCTAGTTCCACGGAAAG

PCR Genotyping

1 5' – GGGCTAACTTTGCAGATCTTG
 2 5' – TAGTTAGCACAGTGTTCCGTG
 Neo3A 5' – GCAGCGCATCGCCTTCTATC
 9 5' – AAGTGTTCCAGTGACCTCAGC

Genomic Sequence Deleted:

CCTACGCGGCTCACCTCTACGATGCCGAGAACCCCCAGACACCGCTCCGGAACCTTCCGGGCCCTCTGCTCTGACTACTG
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Genomic Locus: (the deleted sequence represents nt9,533-12,915-in the sequence below)

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[illegible]

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Selection Cassette:

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