



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ774	Date of Submission:	11-5-04
Lexicon Contract Name:	DNA121	Mutation Type:	X Standard Knock out
LexVision Name:	MEM635N1		☐ Conditional
Reference accessions:	ENSMUST00000031678, AK050737	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS41, pKOS65_____
X Target Vector DNA __pKOS65.TV_____
X Targeted ES Cell DNA __1D5_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	11/12	18/20
Restriction Enzyme for Genomic Digest:	Hind III	NcoI
Predicted Wild-type Band (kb):	8.4 kb	19.2 kb
Predicted Mutant Band (kb):	3.3 kb	9.9 kb
Probe Size:	299 bp	363 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:	DNA121-2	5' Primer Name:	DNA121-15
3' Primer Name:	DNA121-3	3' Primer Name:	IresGT
Predicted Wild-type Band (bp):	301 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	372 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**

DNA121-11 5' – CTCCCACAATTTCTGAAGCC
 DNA121-12 5' – AATAATCGGAGTCTTCGGGG
 DNA121-18 5' – CCCATAGAGCTTGAAAGTCG
 DNA121-20 5' – GCAGGAATGAAGAGAACAGA

PCR Genotyping

DNA121-2 5' – CCTCAACCTGCTCTTTTGG
 DNA121-3 5' – TTATCTTCCAGTACAAGCACG
 DNA121-15 5' – TAAACTAGGCTTGGGGATCC
 IRES GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

AGGATGGGGTTTCTCCCTCCCAAGACTCACAATGGCCAGAGAAGATTCCGTGAAGTGTTTGCCTGCTTGCTCTACGCC
CTCAACCTGCTCTTTTGGGTAAGTCCTACTATCCCAGCGGGTGGGGATGGCTAGATTG

Genomic Locus: (The deleted sequence represents nt10000-10136 in the sequence below. KOS65 used to generate the TV represents nt 8381-17467 in the sequence below.)

[illegible]

[illegible]

CTCCGGCATTCTATCTCGCAGAGGTGAAGAATCTCTCTGGGGTGTCACTCTGGGTAAGAGGGACAAGAAACACCCACT
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Selection Cassette:

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[illegible]

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