



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ191	Date of Submission:	May 7, 2004
Lexicon Contract Name:	DNA019	Mutation Type:	X Standard Knock out
LexVision Name:	SEC424N1		☐ Conditional
Reference accessions:	ENSMUST00000020439	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __10_____
 X Target Vector DNA __pKOS.DNA019.10 TV_____
 X Targeted ES Cell DNA __3C11_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	22/23	14/17
Restriction Enzyme for Genomic Digest:	BamH I	BamH I
Predicted Wild-type Band (kb):	16.5	16.5
Predicted Mutant Band (kb):	7.7	8.8
Probe Size:	585	343

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:	DNA019-9	5' Primer Name:	neo3a
3' Primer Name:	DNA019-5	3' Primer Name:	DNA019-10
Predicted Wild-type Band (bp):	337	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	363

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**

DNA019-22 5' – CACGCTGATGCTGATGATGAATG
DNA019-23 5' – AGGGCGAACTCGGAACACAAT
DNA019-14 5' – CTGGGCTTGCTTTATAGATGAGTC
DNA019-17 5' – AGGAGCTGGCTGTTGGAGAA

PCR Genotyping

DNA019-10 5' – GCGGGTGCCACCGCTGGATTCTTG
DNA019-9 5' – CCAGCACTCCCAGGCTCACTCGC
DNA019-5 5' – GCAGATGCCGGACCTTACCTATGA
neo3a 5' – GCAGCGCATCGCCTTCTATC

ATGGCTCGGAGAAGAGCCTTCCCTGCTTTCGCGCTCCGGCTCTGGAGCATCCTACCTTGCCTGCTCCTGCTGCGAGCGG
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Selection Cassette: LacZ/neo

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[illegible]

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