



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ390	Date of Submission:	7-15-04
Lexicon Contract Name:	DNA073	Mutation Type:	X Standard Knock out
LexVision Name:	SCRG1_3		☐ Conditional
Reference accessions:	NM_009136	Is this gene X-linked?	No

Required Materials: ☐ pKOS clone DNA(s) __not available_____
 ☐ Target Vector DNA __not available_____
 X Targeted ES Cell DNA __Clone27_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	34+35	36+37
Restriction Enzyme for Genomic Digest:	EcoRI	EcoRV
Predicted Wild-type Band (kb):	9.8 kb	8.8 kb
Predicted Mutant Band (kb):	3.1 kb	6.5 kb
Probe Size:	506 bp	314 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:	38	5' Primer Name:	Neo3A
3' Primer Name:	39	3' Primer Name:	39
Predicted Wild-type Band (bp):	280 bps	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	432 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**

34 5' – CCACTTTCCCCAGGTCTGATACG
 35 5' – CCCCAATCTCTAGACAGTAGATTGAAGC
 36 5' – GGTCTTTGTGCCTCCTGTG
 37 5' – GGCGCTGAACTGACAGAG

PCR Genotyping

38 5' –CTACTGCAACTTCAGCGAACT
 39 5' –GGAGCATGCCCTTAATC
 Neo3A 5' –GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GTGGTACTTGTCATCCTTGGGCTAACTTTGCTGTTAGAAACACAAGCCATGCCTTCAAGTCGCCTCTCCTGCTACAGAAA
GTTGCTAAAGGATCGCAATTGTCACAACCTTCCGGAGGGCAGAGCCGACCTGAAGCTGATAGATGCAAATGTCCAGCA
TCATTTCTGGGATGGGAAGGGATGCGAGATGATCTGCTACTGCAA

Genomic Locus: (the deleted sequence represents nt18723-18925-in the sequence below)

[illegible]

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Selection Cassette:

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[illegible]

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