



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ765	Date of Submission:	6-14-04
Lexicon Contract Name:	DNA120	Mutation Type:	X Standard Knock out
LexVision Name:	SEC441N1		☐ Conditional
Reference accessions:	NM_133709	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __KOS 55_____
 X Target Vector DNA __FTV55 NEO_____
 X Targeted ES Cell DNA __1H3_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	19/20	21/22
Restriction Enzyme for Genomic Digest:	Acc65 I	Acc65 I
Predicted Wild-type Band (kb):	23.7	23.7
Predicted Mutant Band (kb):	15.9	7.1
Probe Size:	495 BP	572 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:	DNA120-5	5' Primer Name:	NEO 3A
3' Primer Name:	DNA120-6	3' Primer Name:	DNA120-12
Predicted Wild-type Band (bp):	362 BP	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	405

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**

DNA120-19 5' – CTCCATGGCCCACTAAAG
 DNA120-20 5' – AAGCAGAGCCCAACACCTAAG
 DNA120-21 5' – ACGGCCTCTGGGTTGGTC
 DNA120-22 5' – AGCACAGGTCGGGCACA

PCR Genotyping

DNA120-5 5' – GTAGCCTGGGCAGAGCACTAA
 DNA120-6 5' – CGGAGGCGGTAACAAT
 DNA120-12 5' – CAGAAACAATATGGGAGCATTC
 NEO3A 5' – GCAGCGCATCGCCTTCTATC

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Selection Cassette: LACZ NEO

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[illegible]

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