



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ5827	Date of Submission:	1-20-05
Lexicon Contract Name:	DNA222	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ755N1		☐ Conditional
Reference accessions:	NM_172898	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS57_____
 X Target Vector DNA __KOS57TV_____
 X Targeted ES Cell DNA __1F1_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13+14	11+12
Restriction Enzyme for Genomic Digest:	KpnI	EcoRI
Predicted Wild-type Band (kb):	20.0 kb	6.0 kb
Predicted Mutant Band (kb):	8.8 kb	8.5 kb
Probe Size:	282 bp	130 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:	DNA222-1	5' Primer Name:	DNA222-8
3' Primer Name:	DNA222-3	3' Primer Name:	IRESUP-LR
Predicted Wild-type Band (bp):	476 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	318 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**

DNA222-11	5' – GTGAGTGCAATTGGTCCTGG
DNA222-12	5' – TCCTTCTGAGGCAGAAGCTG
DNA222-13	5' – GTGAGCTTCAGATTTACGGC
DNA222-14	5' – TGCCTTACCAAGTCCAGTCG

PCR Genotyping

DNA222-1	5' –GAGGTGGGTGCCCCGAAGAC
DNA222-3	5' –GGAACCACAGTAGTTCAGGG
DNA222-8	5' – CATAAAATCTTCCAGCCCGG
IRESUP-LR	5' – TGGAAAATAACATATAGACAAACGCACACC

Genomic Sequence Deleted:

[illegible]

Genomic Locus: *(The deleted sequence represents nt-11,199 to 12,725---in the sequence below. KOS 57 used to generate the TV represents nt-5000 to 13, 573-- in the sequence below.)*

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[illegible]

Selection Cassette:

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[illegible]

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