



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ707	Date of Submission:	10.8.04
Lexicon Contract Name:	DNA115	Mutation Type:	X Standard Knock out
LexVision Name:	SEC451N1		☐ Conditional
Reference accessions:	ENSMUST00000044231	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS34_____
 XTarget Vector DNA __FTV.SEC451.34_____
 X Targeted ES Cell DNA __1C4_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	13/12	15/17
Restriction Enzyme for Genomic Digest:	EcoRV	EcoRV
Predicted Wild-type Band (kb):	4 kb	9.6 kb
Predicted Mutant Band (kb):	5.2 kb	12.3 kb
Probe Size:	138 bp	267 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:	SEC451.4	5' Primer Name:	SEC451.5
3' Primer Name:	SEC451.3	3' Primer Name:	IRES GT
Predicted Wild-type Band (bp):	504 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	565 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**

SEC451.12 5' – GCTACATGAGACCCTATCTG
SEC451.13 5' – CCTGGAACACCGCTGTAC
SEC451.15 5' – GCCACAGCATGCAATGTCAC
SEC451.17 5' – GATAGTCAACACAGTACTGATAG

PCR Genotyping

SEC451.3 5' – GAGCTGAGATTGAACTAGTC
SEC451.4 5' –CTCGAAGCAGCTCAGTTAATG
SEC451.5 5' –CATTGCTCAAGGATCTGCTC
IRES GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

[illegible]

Genomic Locus: *(the deleted sequence represents nt 14429-16789 -in the sequence below)*

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[illegible]

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[illegible]

[illegible]

Selection Cassette: IRES Beta Geo Puro

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Targeted Locus:

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