



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ227	Date of Submission:	10/05/04
Lexicon Contract Name:	DNA403	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ706N1		☐ Conditional
Reference accessions:	ENSMUST00000019947, NM_025799.2	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS32_____
X Target Vector DNA __KOS32-FTV(Puro)_____
X Targeted ES Cell DNA __1F12_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	9+10	11+12
Restriction Enzyme for Genomic Digest:	Hind III	Xba I
Predicted Wild-type Band (kb):	7.4	12.1
Predicted Mutant Band (kb):	4.3	7.3
Probe Size:	143 bp	255 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:	1	5' Primer Name:	1
3' Primer Name:	2	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	352	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	350

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**

DNA403-9	5' – GGACCACATTCCAAACATATC
DNA403-10	5' – GCAGGTTGGGAACTAGA
DNA403-11	5' – GGGTAGAGAATGGGACTTGA
DNA403-12	5' – GCTGGAGATGAGGAAGTAGAA

PCR Genotyping

DNA403-1	5' – AACTCCTGGCCACTCCCTACT
DNA403-2	5' – GTGGATAAAGATGCCGAACT
GT-IRES	5' – CCCTAGGAATGCTCGTCAAGA

[illegible]

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[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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