



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1901	Date of Submission:	10.6.04
Lexicon Contract Name:	DNA016	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ721		☐ Conditional
Reference accessions:	ENSMUST00000020485	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS18_____
X Target Vector DNA __FTV.ENZ721.18_____
X Targeted ES Cell DNA __2G1_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	ENZ721.25/22	ENZ721.11/12
Restriction Enzyme for Genomic Digest:	Stu1	EcoR1
Predicted Wild-type Band (kb):	8.4 kb	10.4 kb
Predicted Mutant Band (kb):	9.9 kb	3.4 kb
Probe Size:	380 bp	196 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:	ENZ721.1	5' Primer Name:	Neo3A
3' Primer Name:	ENZ721.5	3' Primer Name:	ENZ721.6
Predicted Wild-type Band (bp):	510 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	400 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**

ENZ721.11 5' – CATCCAAAGCCAGTGGGAAC
 ENZ721.12 5' – GAGCATTCTCTACACATTGGAC
 ENZ721.22 5' – CCAGGTGTGTTCTAACAGGC
 ENZ721.25 5' – CTGTCCACACTGCCATTCTG

PCR Genotyping

ENZ721.1 5' – CATTCCAGACGTTGATTCCG
 ENZ721.5 5' – GGAAGCGTGGATTAAGTCTC
 ENZ721.6 5' – CACGCACACATACGTAGTCTC
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

[illegible]

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Selection Cassette: IRES beta Gal MC1 Neo

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Targeted Locus:

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