



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3039	Date of Submission:	1/31/05
Lexicon Contract Name:	DNA505	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ300N1		☐ Conditional
Reference accessions:	NM_145533.1	Is this gene X-linked?	No

Required Materials: ☐ pKOS clone DNA(s) n/a
☒ Target Vector DNA DNA505-Scrambler FTV#1
☒ Targeted ES Cell DNA 2C1
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	1 + 2	28 + 29
Restriction Enzyme for Genomic Digest:	SpeI	XbaI
Predicted Wild-type Band (kb):	5.7 kb	11.2 kb
Predicted Mutant Band (kb):	3.3 kb	9.9 kb
Probe Size:	252 bp	421 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:	DNA505-30	5' Primer Name:	Neo3bExt
3' Primer Name:	DNA505-25	3' Primer Name:	DNA505-25
Predicted Wild-type Band (bp):	349 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	608 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**

DNA505-1 5' – ATTTGCTTCTTGGCTTGTGAACTA
 DNA505-2 5' – GGGCAGCTGGTAATGTAGG
 DNA505-28 5' – ATAGTCCTAGTTGGTGATGGCTAC
 DNA505-29 5' – TATTTGGTCAGCACGCATCCATGG

PCR Genotyping

DNA505-25 5' – GAGAACAACCTGCCTGGTGTCTCTG
 DNA505-30 5' – ACGGCCATGAGCGAGAGAAGTACC
 Neo3bExt 5' – GGTGTGGCGGACCGCTATCAGGAC

Genomic Sequence Deleted:

[illegible]

Genomic Locus: *(The deleted sequence represents nt 10002 – 12447 in the sequence below. PCR was used to generate the TV arms: the 5' arm represents nt 7687 – 10001 in the sequence below; the 3' arm represents nt 12448 – 15938 in the sequence below)*

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Selection Cassette:

Targeted Locus:

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