



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ548	Date of Submission:	5-17-06
Lexicon Contract Name:	DNA255	Mutation Type:	X Standard Knock out
LexVision Name:	MEM681N1		☐ Conditional
Reference accessions:	NM_029748	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) __pKOS-82_____
 ☐ Target Vector DNA __pKOS-82TVneo_____
 ☐ Targeted ES Cell DNA __2D8_____
 ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	39+40	7+8
Restriction Enzyme for Genomic Digest:	AvrII	EcoRI
Predicted Wild-type Band (kb):	20.1 kb	6.0 kb
Predicted Mutant Band (kb):	17.4 kb	2.8 kb
Probe Size (bp):	295 bp	178 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:	DNA255-17	5' Primer Name:	Neo3a
3' Primer Name:	DNA255-36	3' Primer Name:	DNA255-24
Predicted Wild-type Band (bp):	291 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	274 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**

DNA255-39 5' – ATCTCTACTGTGGCATCAACC
 DNA255-40 5' – AGACAGCAAAGAGCCCTACAT
 DNA255-7 5' – TTGGAGCCCAGACTTTAGC
 DNA255-8 5' – TTAGGAGTTACGGGAGTGTATG

PCR Genotyping

DNA255-17 5' – GAAGAGGGCATGCTGCAAATAT
 DNA255-36 5' – TGGTAGAACAAAGGGCAACGTG
 DNA255-24 5' – TGTGTAGCCTTGGCACTATGG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CCATCTGCAACTCTCTGGCCATCGTCTTTACACTGATTGTTGGGAAGGTCCTTGGAGAAGATATTGGTGGGAAAGGTAAGTTGGGTGG
CTGCACGTCAGGGCATGGTTGCTTGGGCCCTTGGCATAACATGAACTTTCCCGATTCTGACTCCCATGGGTGGTGAGGAGAGGCCCTC
CCTCACGTTGCCCTTTGTTCTACCACAGCTCTCCTGCTTGCTTGTGGCCCGCAGTCTCCTTTCCCTGAGCAATCTGGGGGCAGGGGCTG
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GCAGTGGCTGGCATGGTGCTCACCATCACAGGGATCACCGTGTGCATCACAAGCTCGGTGAGCAAGACCCAGGGCCAACCGTCGCAC
TCCTGAGTGGGCCAACCCCGACCGTCAGCTCTGCTGTGCTCGGTGGATGCTGGGCC

Genomic Locus: *(The deleted sequence represents nt 20415-20911 in the sequence below. KOS82 used to generate the TV represents nt 11,133-21,889 .)*

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[illegible]

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[illegible]

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Selection Cassette: LacZ/Neo

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