



## Lexicon Genetics Incorporated – Genentech Project Materials

|                               |           |                               |                                      |
|-------------------------------|-----------|-------------------------------|--------------------------------------|
| <b>Genentech ID:</b>          | UNQ3966   | <b>Date of Submission:</b>    | 3-23-05                              |
| <b>Lexicon Contract Name:</b> | DNA075    | <b>Mutation Type:</b>         | X Standard Knock out                 |
| <b>LexVision Name:</b>        | GPR756N1  |                               | <input type="checkbox"/> Conditional |
| <b>Reference accessions:</b>  | NM_130866 | <b>Is this gene X-linked?</b> | No                                   |

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**Required Materials:** X pKOS clone DNA(s) \_\_pKOS55\_\_\_\_\_  
X Target Vector DNA \_\_pKOS55TV\_\_\_\_\_  
X Targeted ES Cell DNA \_\_1G10\_\_\_\_\_  
X Genomic Map

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### Southern Blot Analysis: *External/Internal Probe Strategies*

|                                        | <u>5' External</u> | <u>3' External</u> |
|----------------------------------------|--------------------|--------------------|
| Name of Probe:                         | 20+21              | 16+17              |
| Restriction Enzyme for Genomic Digest: | Bgl I              | EcoRV              |
| Predicted Wild-type Band (kb):         | 17 kb              | 9.8 kb             |
| Predicted Mutant Band (kb):            | 9.3 kb             | 13.2 kb            |
| Probe Size:                            | 489 bp             | 302 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:                                | DNA075-14 | 5' Primer Name:                          | DNA075-14 |
| 3' Primer Name:                                | DNA075-4  | 3' Primer Name:                          | GTIRES    |
| Predicted Wild-type Band (bp):                 | 509 bp    | Predicted Wild-type Band (bp):           | none      |
| Predicted mutant band (bp)                     | none      | Predicted mutant band (bp)               | 349 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**

DNA075-20    5' – GAATGAACCTACAATGCGTTATGG  
 DNA075-21    5' – CACTCACCTGGGAATGGCGCAGTT  
 DNA075-16    5' – CATGTTTATGTTGGCTTGATAG  
 DNA075-17    5' – GGAAGCTGGTAAAATCTGGTTA

**PCR Genotyping**

DNA075-14    5' – TACCACTAAGTTCCAGGGGACT  
 DNA075-4    5' – TTGTTGAGGACAGCAGCGTGAC  
 GTIRES       5' – CCTAGGAATGCTCGTCAAGA

### **Genomic Sequence Deleted:**

GCAACTTCACCCATGCCACCTTCCTGCTTATTGGTATTCCAGGACTGGAGGAAGCTCACTTTTGGTTTGGCTTCCCCCTG  
CTTTCCATGTATGCTGTAGCATTGTTTGGAACTGCATTGTGGTCTTCATAGTGAGAACAGAGCGGAGCCTGCATGCAC  
CCATGTACCTTTTTCTCTGCATGCTGGCAGCTATTGATCTGGCTTTGTCCACATCCACAATGCCCAAGATTCTCGCCCTCT  
TTTGGTTTGAATCCCAGGAGATTACTTTTGTATGCCTGTCTTGCCAGATGTTTTTTCATTACACTCTCTCAGCAATTGAAT  
CTACTATCCTGCTGGCCATGGCCTTTGACCGGTACGTGGCTATCTGCCACCCACTGCGTCACGCTGCTGTCTCAACAAT  
ACAGTAACAGTCCAAATAGGCATGGTGGCTCTGGTCCGGGGATCCCTATTCTTTTTCCCACTCCCACTACTGATCAAGC  
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TGTGCATGTTCTAATGGGGGATGTCTACCTGCTGCTGCCTCCTGTGATCAATCCCATCATCTACGGTGTCTAAGACCAAC  
AGATCAGAACACGGGTTCTGGCTATGTTCAAGATCAGCTGTGACAAGGACATTGAAGCTGGGGGAAACACGTGACCCT  
TACCAT

**Genomic Locus:** *(The deleted sequence represents nt16813-17775 in the sequence below. KOS55 used to generate the TV represents nt 14011-21705 in the sequence below.)*

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[illegible]

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[illegible]

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[illegible]

**Selection Cassette:**

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### **Targeted Locus:**

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[illegible]

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