



## Lexicon Genetics Incorporated – Genentech Project Materials

|                               |                                           |                               |                                                        |
|-------------------------------|-------------------------------------------|-------------------------------|--------------------------------------------------------|
| <b>Genentech ID:</b>          | UNQ2524                                   | <b>Date of Submission:</b>    |                                                        |
| <b>Lexicon Contract Name:</b> | DNA301A                                   | <b>Mutation Type:</b>         | <input checked="" type="checkbox"/> Standard Knock out |
| <b>LexVision Name:</b>        | GPR555N1                                  |                               | <input type="checkbox"/> Conditional                   |
| <b>Reference accessions:</b>  | BB613227; BF160755;<br>ENSMUST00000062435 | <b>Is this gene X-linked?</b> | No                                                     |

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**Required Materials:** X pKOS clone DNA(s) \_\_pKOS 61\_\_\_\_\_  
 X Target Vector DNA \_\_pTV 61neo\_\_\_\_\_  
 X Targeted ES Cell DNA \_\_1D8\_\_\_\_\_  
 X Genomic Map

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

|                                        | <u><b>5' Internal</b></u> | <u><b>3' External</b></u> |
|----------------------------------------|---------------------------|---------------------------|
| Name of Probe:                         | <b>15+16</b>              | <b>20+21</b>              |
| Restriction Enzyme for Genomic Digest: | <b>BglII</b>              | <b>XbaI</b>               |
| Predicted Wild-type Band (kb):         | <b>9.6 kb</b>             | <b>7.9 kb</b>             |
| Predicted Mutant Band (kb):            | <b>13.1 kb</b>            | <b>11.2 kb</b>            |
| Probe Size:                            | <b>299 bp</b>             | <b>261 bp</b>             |

**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:                                | DNA301A-3 | 5' Primer Name:                          | Neo3a      |
| 3' Primer Name:                                | DNA301A-4 | 3' Primer Name:                          | DNA301A-14 |
| Predicted Wild-type Band (bp):                 | 249 bp    | Predicted Wild-type Band (bp):           | none       |
| Predicted mutant band (bp)                     | none      | Predicted mutant band (bp)               | 333 bp     |

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**Primer sequences:****Southern probes**

DNA301A-15    5' – TACCGCCTGAACCATCTTG  
DNA301A-16    5' – GCGTCAGAGCTTAGCATTC  
DNA301A-20    5' – CGTGTCTACAACGCCTACAT  
DNA301A-21    5' – GCAATGGCAGTGTTGAAAGC

**PCR Genotyping**

DNA301A-3    5' – CTTGATGAAGCGCCTTGAG  
DNA301A-4    5' – GCAAGTCTTAGAGCCTAGG  
DNA301A-14    5' – CTTAAGATGGCGCTGTAGC  
Neo3a        5' – GCAGCGCATCGCCTTCTATC

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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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