Please provide the following information required for genetic analysis of your mutant mice.

*Note to MAC users: to ensure your graphic can be viewed on a PC please follow the steps below when inserting the graphic into this document. DO NOT drag and drop or copy/paste the graphic into this document.*

* *Open the original graphic in the program that created it*
* *Choose File, Save As*
* *Select No Compression in the save options.*
* *Save as JPG or PNG or similar format that's compatible with both PC and Mac Word versions.*
* *Switch to Word, choose Insert, Picture, From File and choose the newly saved picture.*

*These instructions are very generic. The menu options for your graphics program may be different.*

|  |
| --- |
| Donating Investigator/PI |
| Email |
| Institution |
| Address |
| City | State | Zip |
| Lab Contact |
| Email |
| Telephone | FAX |
| Strain Name | MMRRC Stock Number |

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME OF PCR:** |  | **MMRRC:** | **0-CTR****-UCD** |

|  |  |
| --- | --- |
| **Protocol:**  | ***(PCR protocol provided by Donating Investigator)*** |
| Reagent/Constituent | **Volume (μL)** |
| Water       |     |
| 10x Buffer       |     |
| MgCl2 (stock concentration is    mM)       |     |
| Betaine (stock concentration is 5M) *Optional*       |     |
| dNTPs (stock concentration is 10mM)       |     |
| DMSO *Optional*       |     |
| Primer 1. (stock concentration is 20μM)  |     |
| Primer 2. (stock concentration is 20μM)  |     |
| Primer 3. (stock concentration is 20μM)  |     |
| Primer 4. (stock concentration is 20μM)  |     |
| Taq Polymerase 5Units/μL       |     |
| DNA (50-200ng/ μL) extracted w/ “Qiagen DNeasy columns or other similar silica based kits” |     |
| *The total volume is auto-calculated based on volumes entered, right click the total and update field to show/recalculate the total volume.* | **TOTAL VOLUME OF REACTION:** | **0.000 μL** |

***Comments on protocol:***

|  |  |
| --- | --- |
|  |  |
| *
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**Strategy:**

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | **Temp (oC )** | Time (m:ss) | **# of Cycles** |
| 1. Initiation/Melting HOT START? [ ]  |     |     | **1** |
| 2. Denaturation  |     |     |  |
| 3. Annealing steps 2-3-4 cycle in sequence |     |     |    **x** |
| 4. Elongation  |     |     |  |
| 5. Amplification  |     |     | **1** |
| 6. Finish  |     | ∞ | n/a |

|  |  |  |  |
| --- | --- | --- | --- |
| **Primers:** |  | **Electrophoresis Protocol:** |  |
|  | **Name** | **Nucleotide Sequence (5' - 3')** | Argarose: |     | V: |     |  |
|  | 1.     |       | Estimated Running:Time: |     | min. |
|  | 2.     |       | **Primer Combination** | **Band** | **Genotype** |
|  | 3.     |       |     |     bp |     |
|  | 4.     |       |     |     bp |     |
|  | 5.     |       |     |     bp |     |
|  |  |  |  |  |  |

***Please size gel images to fit in this space***

**Protocol / Gel Comments:**

1 2 3 4 5

SAMPLE GEL

**Gel pictures:**