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:***

|  |  |  |
| --- | --- | --- |
|  |  | |
|  | | |

**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:**