

# PCR genotyping of KA2-KO mice

Date: 9/20/2007

| Reaction mixture        | Volume (ml) | 13x   |
|-------------------------|-------------|-------|
| gDNA                    | 1           |       |
| 10 mM oIMR 162          | 1           | 13    |
| 10 mM oIMR 163          | 1           | 13    |
| 10 mM KA2-7F            | 2           | 26    |
| 10 mM KA2-8R            | 2           | 26    |
| 5x Q Solution           | 2.5         | 32.5  |
| 10x Buffer              | 2.5         | 32.5  |
| 25 mM MgCl <sub>2</sub> | 0.5         | 6.5   |
| 10 mM dNTPs             | 1           | 13    |
| Taq                     | 0.2         | 2.6   |
| dH <sub>2</sub> O       | 11.3        | 146.9 |
| Total:                  | 25          | 312   |

| Samples | Controls    |
|---------|-------------|
| 13332   | 13362 (-/-) |
| 13348   | 13361 (+/-) |
| 13349   | 13363 (+/+) |
| 13357   | TE          |
| 13359   |             |
| 13360   |             |
| 13376   |             |

## Cycling Conditions

Program Name: KA2

| Temperature | Time |             |
|-------------|------|-------------|
| 94 °C       | 2:00 |             |
| 94 °C       | 0:30 | } 28 cycles |
| 63 °C       | 0:50 |             |
| 72 °C       | 0:50 |             |
| 72 °C       | 7:00 |             |
| 4 °C        | hold |             |

Run PCR products on a 1.5% agarose gel

Wildtype allele: 685 bp  
Knockout allele: 197 bp