

### **PCR Hmox1**

#### 1- PCR reaction

|                                   |              |
|-----------------------------------|--------------|
| Taq Buffer 10x                    | 2 $\mu$ l    |
| MgCl <sub>2</sub> 25mM            | 1.2 $\mu$ l  |
| dNTPs                             | 1 $\mu$ l    |
| Primer Hmox_f<br>(5pmol/ $\mu$ l) | 1 $\mu$ l    |
| Primer Hmox_r<br>(5pmol/ $\mu$ l) | 1 $\mu$ l    |
| Taq pol                           | 0.2 $\mu$ l  |
| DNA                               | 1 $\mu$ l    |
| sdH <sub>2</sub> O                | 12.6 $\mu$ l |

#### 2- PCR program :

94°C for 4:00

52°C for 0:45

72°C for 1:30

93°C for 0:45

52°C for 0:45

30 cycles

72°C for 1:00

72°C for 10:00

16°C for 5:00

#### 3- Primers:

- Primer Hmox\_f: 5' AGG GGA AGA AGA CTC ATC GA 3'

- Primer Hmox\_r: 5' AGA AGG CTC GGA GGT TAA AT 3'

#### 4- Amplifications:

wild-type allele: 418 bp

floxed allele: 485 bp