1. **PCR conditions used for amplification of the selected genes**

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| --- | --- | --- | --- | --- |
| **Region** | **Step** | **Temperature** | **Time** | **Cycles** |
| CTLon\_0054 | Activation and initial denaturation | 94ºC | 12 min | 1 |
| Denaturation | 94ºC | 1 min | 40 |
| Annealing | 54ºC | 1 min |
| Elongation | 72ºC | 1 min |
| Final elongation | 72ºC | 10 min | 1 |
| CTLon\_0087 | Activation and initial denaturation | 94ºC | 12 min | 1 |
| Denaturation | 94ºC | 1 min | 40 |
| Annealing | 58ºC | 1 min |
| Elongation | 72ºC | 1 min |
| Final elongation | 72ºC | 10 min | 1 |
| CTLon\_0243 | Activation and initial denaturation | 94ºC | 12 min | 1 |
| Denaturation | 94ºC | 1 min | 40 |
| Annealing | 57ºC | 1 min |
| Elongation | 72ºC | 1 min 15 sec |
| Final elongation | 72ºC | 10 min | 1 |
| CTLon\_0301 | Activation and initial denaturation | 94ºC | 12 min | 1 |
| Denaturation | 94ºC | 1 min | 40 |
| Annealing | 54ºC | 1 min |
| Elongation | 72ºC | 1 min 30 sec |
| Final elongation | 72ºC | 10 min | 1 |
| *ompA* | Activation and initial denaturation | 94ºC | 12 min | 1 |
| Denaturation | 94ºC | 1 min | 40 |
| Annealing | 58ºC | 1 min |
| Elongation | 72ºC | 1 min  |
| Final elongation | 72ºC | 10 min | 1 |