**Sequence Analysis of ST-464 Strain - LE104**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene Name** | **Isolate** | **Barcode** | **Sequencing Primer** | **Number of Repeats** | **Is this the targeted gene** | **Picture of Repeat Tract from Trace File** | **Comment** |
| Camp0245 : cj0275 | LE104 | CAB980 | R | C7 | Yes |  | **Seq size without the primer = ~179bp**  **Fragment size on PCR was = 215bp** |
| Camp0044 : cj0045c | LE104 | CAB982 | R | **G10\*** | Yes |  | **Seq size without the primer = ~251bp**  **Fragment size on PCR was = 280bp**  **\* this gene has (G11) on LE104 (Genome).** |
| Camp1331 : cj1420c | LE104 | CAB984 | F | G9 | Yes |  | **Seq size without the primer = ~74bp**  **Fragment size on PCR was = 109bp** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Camp1239 : cj1321 | LE104 | CAB986 | F | G11 | No |  | No significant similarity between the Two sequences. |
| Camp1333 : cj1422c | LE104 | CAB988 | R | **G10\*** | Yes |  | **Seq size without the primer = ~363bp**  **Fragment size on PCR was = 402bp**  **\* this gene has (G9) on LE104 (Genome).** |
| Camp1252 : cj1335 | LE104 | CAB990 | F | G9 | **Yes\*** |  | **Seq size without the primer = ~302bp**  **Fragment size on PCR was = 337bp**  **\* this gene also matches CAMP1250 (pseD).** |
| Camp1224 : cj1306c | LE104 | CAB992 | R | C9 | **Yes\*** |  | **Seq size without the primer = ~274bp**  **Fragment size on PCR was = 304bp**  **\* this gene also matches CAMP1223.** |
| Camp1214 : cj1296 | LE104 | CAB994 | F | **G10\*** | YES |  | **Seq size without the primer = ~66bp**  **Fragment size on PCR was = 103bp**  **\* this gene has (G11) on LE104 (Genome).** |
| Camp0157 : cj0170 | LE104 | CAB996 | R | **C7\*** | Yes |  | **Seq size without primer = ~240bp**  **Fragment size on PCR = 281bp**  **\* this gene has (G9) on LE104 (Genome).**  Matches NCTCT11168 to correct gene and 240/242 (99%) |
| Camp0031 : cj0031 | LE104 | CAB998 | F | There is no repeat tract | Yes | - | **Seq size without the primer = ~178bp** |
| Camp1236 : cj1318 | LE104 | CAC001 | F | **G10\*** | **Yes\*** |  | **Seq size without the primer = ~302bp**  **\* this gene has (G9) on LE104 (Genome).**  **\* both sequences match Camp1250.** |
| Camp1228 : cj1310c | LE104 | CAC002 | F | G10 | Yes |  | **Seq size without the primer = ~111bp**  **Fragment size on PCR = 366bp**  **Sequence matches correct gene in NCTC11168 with 307/321 (96%)** |
| Camp1243 : cj1325 | LE104 | CAC004 | R | - | - | The sequence is not clear | **\* this gene has (G7) on LE104 (Genome).** |
| Camp1173 : cj1254 | LE104 | CAC008 | F | C10 | Yes |  | **Seq size without the primer = ~123bp**  **Fragment size on PCR was = 152bp** |
| 239 | LE104 | CAC010 | R | - | - | The sequence is not clear | - |
| 231 | LE104 | CAC012 | R | **C11\*** | Yes |  | **Seq size without the primer = ~306bp**  **Fragment size on PCR was = 336bp**  **\* this gene has (G10) on LE104 (Genome).** |
| Camp0575 : cj0617 | LE104 | CAC014 | R | C9 | Yes |  | **Seq size without the primer = ~140bp**  **Fragment size on PCR was = 167bp** |
| Camp1633 : cj0742 | LE104 | CAC018 | F | C10 | - | The sequence is not clear | - |
|  |  |  |  |  |  |  |  |
| 230 | LE104 | CAC022 | R | **C9\*** | Yes |  | **Seq size = ~443bp**  **Fragment size on PCR = 205bp**  **\* this gene has (G11) on LE104 (Genome).** |
| Camp1332 : cj1421c | LE104 | CAC025 | R | G9 | **Yes\*** |  | **Seq size without primer = ~259bp**  **Fragment size on PCR = 290bp**  **\* this gene also matches CAMP1656.** |
| Camp1258 : cj1342c | LE104 | CAC027 | F | G9 | Yes |  | **Seq size without the primer = ~271bp**  **Fragment size on PCR was = 305bp** |
| Camp1631 : cj0676 | LE104 | CAC029 | F | G11  (tract preceded by 6 GAA repeats) | Yes |  | **Seq size without the primer = ~756bp**  **Fragment size on PCR was = 355bp**  **Matches correct gene on NCTC11168 with 302/318 (95%)** |
| 320 | LE104 | CAC033 | F | **G10\*** | Yes |  | **Seq size without the primer = ~396bp**  **Fragment size on PCR was = 422bp**  **\* this gene has (G9) on LE104 (Genome).** |
| 327 | LE104 | CAC034 | F | G9 | Yes |  | **Seq size = ~444bp**  **Fragment size on PCR was = 443bp** |
| CAMP1340  cj1429 |  |  |  |  |  |  | **Genome = G10** |
| CAMP1213  cj1295 |  |  |  |  |  |  | **Genome = G10** |
| CAMP0631  cj0685 |  |  |  |  |  |  | **Genome = C9** |
| CAMP1337  cj1426 |  |  |  |  |  |  | **Genome = G10** |
| CAMP1223  cj1305 |  |  |  |  |  |  | **Genome = G9** |
| CAMP1348  cj1437 |  |  |  |  |  |  | **Genome = G9** |
| CAMP0682  cj0736 |  |  |  |  |  |  | **Genome = G9** |