**Sequences Analysis of ST353 Strain – LE17**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **The name of the gene** | **Isolate** | **Barcode** | **Sequencing Primer** | **Number of Repeats** | **Is this the targeted gene** | **Picture of Repeat Tract from Trace File** | **Comment** |
| Camp0245  cj0275 | LE17 | CAB981 | R | C7 | Yes |  | **Seq size without primer = ~171bp**  **Fragment size on PCR = 215bp** |
| Camp0044 : cj0045c | LE17 | CAB983 | R | G10 | Yes |  | **Seq size without primer = ~100bp**  **Fragment size on PCR = 279bp**  Matches NTCT11168 238/247 (96%) in correct locus |
| Camp1331 : cj1420c | LE17 | CAB985 | F | **G9\*** | Yes |  | **Seq size without primer = ~78bp**  **Fragment size on PCR = 108bp**  **\* this gene has (G8) on LE17 (Genome).** |
|  |  |  |  |  |  |  |  |
| Camp1239 :  cj1321 | LE17 | CAB987 | F | G11 | NO |  | No significant similarity between the Two sequences. |
| Camp1333 : cj1422c | LE17 | CAB989 | F | **C12\*** | NO |  | **Seq size without primer = ~104bp**  **Fragment size on PCR = 399bp**  **\* this gene has (G10) on LE17 (Genome).**  **Sequence matches NCTC11168 in correct gene with 287/360 (80%) and with 30 bp deletion** |
| Camp1252 :  cj1335 | LE17 | CAB991 | F | G9 | **Yes\*** |  | **Seq size without primer = ~302bp**  **Fragment size on PCR = 338bp**  **\* this gene also matches CAMP1236 (maf1).** |
|  |  |  |  |  |  |  |  |
| Camp1224 : cj1306c | LE17 | CAB993 | R | C9 | Yes |  | **Seq size without primer = ~271bp**  **Fragment size on PCR = 304bp** |
| Camp1214 :  cj1296 | LE17 | CAB995 | F | G10 | Yes |  | **Seq size without primer = ~60bp**  **Fragment size on PCR = 102bp** |
| Camp0157 :  cj0170 | LE17 | CAB997 | R | C9 | Yes |  | **Seq size without primer = ~254bp**  **Fragment size on PCR = 283bp** |
| Camp0031 :  cj0031 | LE17 | CAB999 | F | **G9\*** | **Yes\*** |  | **Seq size without primer = ~181bp**  **Fragment size on PCR = 221bp**  **\* this gene has (G10) on LE17 (Genome).**  **\* both sequences match Camp0021.** |
| Camp0586 : cj0628/cj0028 | LE17 | CAC000 | R | **C9\*** | Yes |  | **Seq size without primer = ~399bp**  **Fragment size on PCR = 446bp**  **\* this gene has (G11) on LE17 (Genome).** |
| Camp1228 : cj1310c | LE17 | CAC003 | F | G9 | Yes |  | **Seq size without primer = ~304bp**  **Fragment size on PCR = 365bp** |
| Camp1173 :  cj1254 | LE17 | CAC009 | F | C10 | Yes |  | **Seq size = ~435bp**  **Fragment size on PCR = 152bp** |
| 239 | LE17 | CAC011 | R | C9 | Yes |  | **Seq size without primer = ~399bp**  **Fragment size on PCR = 430bp** |
| 231 | LE17 | CAC013 | R | **C9\*** | Yes |  | **Seq size without primer = ~338bp**  **Fragment size on PCR = 336bp**  **\* this gene has (G10) on LE17 (Genome).** |
| Camp0575 :  cj0617 | LE17 | CAC015 | R | **C10\*** | Yes |  | **Seq size without primer = ~141bp**  **Fragment size on PCR = 167bp**  **\* this gene has (G9) on LE17 (Genome).** |
| Camp1243 :  cj1325 | LE17 | CAC005  CAC017 | R | - | - | The sequence is not clear | **\* this gene has (G9) on LE17 (Genome).** |
| 209 | LE17 | CAC019 | F | G10 | Yes |  | **Fragment size on PCR = 93bp** |
| 32  (cj1313) | LE17 | CAC020 | R | C9 | Yes |  | **Seq size without primer = ~540bp**  **Fragment size on PCR = 171bp** |
| Camp1223 : cj1305c | LE17 | CAC021 | F | G9 | **Yes\*** |  | **Seq size without primer = ~167bp**  **Fragment size on PCR = 191bp**  **\* this gene also matches CAMP1224.** |
| 230 | LE17 | CAC023 | R | C10 | Yes |  | **Seq size without primer = ~176bp**  **Fragment size on PCR = 191bp** |
| 36 T1 | LE17 | CAC024 | F | G9 | Yes |  | **Seq size without primer = ~109bp**  **Fragment size on PCR = 265bp** |
| Camp1332 : cj1421c | LE17 | CAC026 | R | - | - | The sequence is not clear | **\* this gene has (G10) on LE17 (Genome).** |
| Camp1258 : cj1342c | LE17 | CAC028 | R | C10 | Yes |  | **Seq size without primer = ~289bp**  **Fragment size on PCR = 311bp** |
| Camp1631 :  cj0676 | LE17 | CAC030 | F | G10 | Yes |  | **Seq size without primer = ~312bp**  **Fragment size on PCR = 355bp** |
| 36 T2 | LE17 | CAC031 | F | G9 | Yes |  | **Seq size without primer = ~329bp**  **Fragment size on PCR = 366bp** |
| 238 | LE17 | CAC032 | F | C9 | Yes |  | **Seq size without primer = ~362bp**  **Fragment size on PCR = 393bp** |
| CAMP1213  Cj1295 | LE17 |  |  |  |  |  | **Genome = G11** |
| CAMP0631  Cj0685 | LE17 |  |  |  |  |  | **Genome = C9** |
| CAMP0396  Cj0431 | LE17 |  |  |  |  |  | **Genome = ?** |
| CAMP1633  Cj0742 | LE17 |  |  |  |  |  | **Genome = C11 or C12in some strains but absent in LE17?** |
| Locus237 | LE17 |  |  |  |  |  | **Genome = G10** |
| Locus203 | LE17 |  |  |  |  |  | **Genome = G9** |