S1 Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Z.mobilis Strain | CRISPR Number | CRISPR kinds | CRISPR Position | CRISPR Length(bp) | Spacer Number | Special Spacer\* (DR consensus) | *cas* genes | Type |
| ZM4 = ATCC 31821 | 3 | CRISPR1 | 242955 -1243466 | 511 | 8 | GTTCACTGCCGCACAGGCAGCTTAGAAA |  *cas*1, *cas*3,*csy*1, *csy*2,*csy*3, *csy*4 | I-F |
| CRISPR2 | 1590356-1590747 | 391 | 6 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR3\* | 1590917-1591005 | 88 | 1 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| [CP4 = NRRL B-14023](http://www.ncbi.nlm.nih.gov/genome/898?genome_assembly_id=169871) | 3 | CRISPR1 | 131560 - 132020 | 460 | 7 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *cas*1, *cas*3,*csy*1, *csy*2,*csy*3, *csy*4 | I-F |
| CRISPR2 | 1255177 -1255445 | 268 | 4 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR3 | 1808132 -1808460 | 328 | 5 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| NRRL B-12526 | 3 | CRISPR1 | 131560 -132020 | 460 | 7 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *cas*1, *cas*3,*csy*1, *csy*2,*csy*3, *csy*4 | I-F |
| CRISPR2 | 1254478-1254746 | 268 | 4 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR3 | 1807530 -1807858 | 328 | 5 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| NCIMB 11163 | 3 | CRISPR1 | 126368 -127178 | 810 | 13 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *cas*1, *cas*3,*csy*1 *csy*2,*csy*3, *csy*4 | I-F |
| CRISPR2 | 1255057 -1256050 | 993 | 16 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR3 | 1909883-1911666 | 1783 | 29 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| pZA1002 (Plasmid of NCIMB 11163) | 1 | CRISPR1 |  33670 --36950 |  3280 | 49 | GTTTCAATCCACGCCTCCGCGAAGGAGGCGAC | *cas*1, *cas*2,*cas*3, *cas*4,*csd*1, *csd*2 | I-C |
| ATCC 10988 | 4 | CRISPR1 | 125014 -125404 | 390 | 6 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *cas*1, *cas*3*csy*1, *csy*2,*csy*3 | I-F |
| CRISPR2\* | 579550 -579677 | 127 | 1 | CCAGAAATACTGCACTCGCTGTAATAGCCCCGATCTCTCAC |
| CRISPR3 | 830110 - 830314 | 204 | 3 | ACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR4 | 1811916 -1812426 | 510 | 8 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| ATCC 29191 | 5 | CRISPR1 | 125613 -125820 | 207 | 3 | GTTCACTGCCGCACAGGCAGCTTAGAAAA | *c cas*1, *cas*3,*csy*1, *csy*2,*csy*3, *csy*4 | I-F |
| CRISPR2 | 1235875-1236083 | 208 | 3 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| CRISPR3 | 1756727-1757238 | 511 | 8 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC |
| CRISPR4\* | 1793736-1793801 | 65 | 1 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| CRISPR5\* | 1794006-1794184 | 178 | 2 | GTTCACTGCCGCACAGGCAGCTTAGAAA |
| ATCC 29192 | 3 | CRISPR1 | 1188329-1189028 | 699 | 11 | CGGTTCATCCCCGCGTGGGCGGGGAACAC | *cas*1, *cas*2,*cas*5, *cse*1, *cse*2, *cse*3, *cse*4 | I-E |
| CRISPR2 | 1310992-1312057 | 1065 | 17 | CGGTTCATCCCCGCGTGGGCGGGGAACAC |
| CRISPR3 | 1183182-1183269 | 87 | 1 | GTTCATCCCCGCGTGGGCGGGGAACAC |
| pZYMOP01 (Plasmid of ATCC 29192) | 1 | CRISPR1 | 11752 --12839 |  1087 |  16 | GTTTCAATCCACGCCTCCGCGAAGGAGGCGA |  *cas*1, *cas*2,*cas*3, *ccas*4,*csd*1, *csd*2 | I-C |
| NRRL B-1960 | 3 | CRISPR1 | 14970-16385 | 1415 |  23 |  TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *cas*1 | I-F |
|  |  | CRISPR2 | 1154817-1156350 | 1533 |  25 |  TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *csy*1 *csy*2 |  |
|  |  | CRISPR3 | 1723946-1725188 | 1242 |  20 | TTTCTAAGCTGCCTGTGCGGCAGTGAAC | *csy*3 |  |

[**\***](http://crispr.u-psud.fr/cgi-bin/crispr/advRunCRISPRFinder.cgi#footnote)**: Questionable CRISPRs**