**Table 1** Summary statistics of pan-genome of 44 *B. amyloliquefaciens* strains

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession** | **Strains** | **Gene numbers in pan-genome of *B. amyloliquefaciens* (Total genes 172388; Core gene clusters 2306)** | | | | **Gene of strain genomes** | |
| **Total gene** | **Core gene** | **Acc gene** | **Uni gene** | **All gene** | **All protein** |
| CYHL01000001 | JRS5 | 3856 | 2310 | 1546 | 57 | 3870 | 3863 |
| CYHP01000001 | JRS8 | 3994 | 2311 | 1683 | 118 | 4016 | 4006 |
| NC\_014551 | DSM7 | 3935 | 2307 | 1628 | 21 | 4030 | 3811 |
| NC\_017188 | TA208 | 3935 | 2307 | 1628 | 1 | 3974 | 3847 |
| NC\_017190 | LL3 | 3981 | 2308 | 1673 | 19 | 4037 | 3887 |
| NC\_017191 | XH7 | 3942 | 2307 | 1635 | 6 | 3983 | 3846 |
| NC\_017912 | Y2 | 4099 | 2310 | 1789 | 46 | 4148 | 3983 |
| NC\_020272 | IT-45 | 3803 | 2310 | 1493 | 4 | 3832 | 3678 |
| NC\_022653 | CC178 | 3754 | 2310 | 1444 | 19 | 3795 | 3641 |
| NC\_023073 | LFB112 | 3761 | 2308 | 1453 | 19 | 3801 | 3637 |
| NZ\_AUNG01000001 | Lx-11 | 3700 | 2309 | 1391 | 5 | 3742 | 3619 |
| NZ\_AUWK01000001 | HB-26 | 3797 | 2311 | 1486 | 30 | 3842 | 3714 |
| NZ\_AVQH01000001 | EGD-AQ141 | 4079 | 2311 | 1768 | 54 | 4121 | 3995 |
| NZ\_AWQY01000001 | UASWS BA1 | 3794 | 2309 | 1485 | 8 | 3806 | 3681 |
| NZ\_CP006058 | UMAF6639 | 3825 | 2311 | 1514 | 20 | 3879 | 3716 |
| NZ\_CP006960 | UMAF6614 | 3804 | 2311 | 1493 | 13 | 3850 | 3695 |
| NZ\_CP007242 | KHG19 | 3775 | 2310 | 1465 | 19 | 3816 | 3658 |
| NZ\_CP010556 | L-H15 | 3724 | 2309 | 1415 | 6 | 3769 | 3615 |
| NZ\_CP011278 | L-S60 | 3728 | 2310 | 1418 | 7 | 3773 | 3611 |
| NZ\_CP013727 | MBE1283 | 3794 | 2314 | 1480 | 24 | 3856 | 3681 |
| NZ\_CP014700 | S499 | 3776 | 2310 | 1466 | 5 | 3819 | 3671 |
| NZ\_CP014783 | B15 | 3820 | 2315 | 1505 | 13 | 3875 | 3704 |
| NZ\_CP016913 | RD7-7 | 3597 | 2308 | 1289 | 39 | 3656 | 3483 |
| NZ\_DF836091 | CMW1 | 3771 | 2311 | 1460 | 128 | 3901 | 3706 |
| NZ\_JCOC01000001 | EBL11 | 3733 | 2308 | 1425 | 20 | 3773 | 3682 |
| NZ\_JMEG01000001 | B1895 | 3824 | 2306 | 1518 | 167 | 4026 | 3623 |
| NZ\_JQNZ01000001 | X1 | 3724 | 2309 | 1415 | 3 | 3766 | 3619 |
| NZ\_JTJG01000001 | JJC33M | 3888 | 2309 | 1579 | 121 | 3952 | 3796 |
| NZ\_JXAT01000001 | LPL-K103 | 3709 | 2309 | 1400 | 15 | 3743 | 3637 |
| NZ\_JZDI01000001 | 12B | 8166 | 2354 | 5812 | 4040 | 8194 | 7985 |
| NZ\_KB206086 | DC-12 | 3910 | 2311 | 1599 | 50 | 3984 | 3842 |
| NZ\_KN723307 | TF281 | 3640 | 2312 | 1328 | 5 | 3782 | 3571 |
| NZ\_LGYP01000001 | 629 | 3536 | 2313 | 1223 | 11 | 3785 | 3427 |
| NZ\_LJAU01000001 | Bs006 | 4042 | 2312 | 1730 | 46 | 4074 | 3969 |
| NZ\_LJDI01000020 | XK-4-1 | 3799 | 2310 | 1489 | 14 | 3821 | 3701 |
| NZ\_LMAG01000001 | RHNK22 | 3781 | 2309 | 1472 | 37 | 3837 | 3698 |
| NZ\_LMAT01000001 | Jxnuwx-1 | 3930 | 2309 | 1621 | 246 | 4008 | 3870 |
| NZ\_LMUC01000016 | H57 | 3816 | 2310 | 1506 | 42 | 3859 | 3732 |
| NZ\_LPUP01000011 | 11B91 | 3790 | 2311 | 1479 | 49 | 3892 | 3702 |
| NZ\_LQQW01000001 | M49 | 3694 | 2311 | 1383 | 21 | 3741 | 3617 |
| NZ\_LQYO01000001 | B4140 | 3771 | 2307 | 1464 | 49 | 3847 | 3713 |
| NZ\_LQYP01000001 | B425 | 3921 | 2310 | 1611 | 39 | 4034 | 3844 |
| NZ\_LYUG01000001 | SRCM101266 | 3724 | 2306 | 1418 | 15 | 3781 | 3628 |
| NZ\_LZZO01000001 | SRCM101294 | 3946 | 2308 | 1638 | 175 | 3982 | 3850 |