**Supplemental Table 2. The details of included strains acquired from GenBank**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CV-A4 Strains** | | | | |
| LC481442 | KY978549 | KJ818315 | GQ253375 | KR185978 |
| LC361271 | KJ541163 | KC867061 | MF422546 | KC879492 |
| LC361270 | KP398832 | KP398834 | JQ715709 | LT719044 |
| LC361272 | KY978543 | KC867062 | GQ253372 | KC879506 |
| LC361273 | KY978547 | KJ818320 | KY978542 | KC879503 |
| LC361274 | KJ818321 | KJ818317 | LC175760 | KC879547 |
| LC361275 | KY978550 | KC867065 | JQ715710 | AY919423 |
| LC361278 | KY978558 | KU380270 | KC867060 | MH111024 |
| LC361277 | KP398840 | KU380269 | LC175765 | MH111025 |
| LC361276 | KY978556 | KX982676 | LC175759 | MH111026 |
| LC169515 | KY978555 | KJ818319 | GQ253373 | MH111022 |
| KY978563 | KF150144 | KP398836 | LC175763 | JN203510 |
| KY978561 | LC013417 | KY978571 | LC175761 | KC879531 |
| KY978569 | LC412061 | KY978570 | LC175764 | KC879525 |
| LC013472 | LC412063 | GQ253374 | KY978544 | KC879530 |
| LC412065 | LC412062 | MH111023 | KY978540 | KC879512 |
| LC175768 | KJ541164 | MH111029 | LC412060 | KC879520 |
| LC169513 | KP398835 | KJ818322 | KJ818307 | KC879519 |
| KY978559 | KJ818313 | LC412059 | KJ818306 | JN203511 |
| LC175770 | KJ818312 | KY978545 | KJ818309 | KC879546 |
| KC867064 | KY978551 | KY978546 | KJ818308 | JN203507 |
| KC867063 | KJ818311 | KY978539 | LC169516 | JN203513 |
| KY978553 | LC175767 | KJ818318 | KP289442 | JN203505 |
| KY978565 | LC175766 | KP676957 | KY978560 | JN203506 |
| KY978562 | KJ818316 | KP676985 | GQ253376 | JN203509 |
| KY978554 | KJ818314 | KP676962 | KY978567 | MH111020 |
| KY978566 | KJ818325 | KP676986 | KY978541 | KY271949 |
| KY978572 | KY978548 | KP676984 | GQ253377 | MH111021 |
| KY978568 | KJ818323 | KP676958 | JQ715708 | MH111027 |
| KY978564 | KJ818324 | KP676965 | GQ176232 | MH111028 |
| LC013451 | KC879539 | KP676964 | AY421762 | KY978538 |
| LC412064 | KY978552 | KP676963 | AF081295 | HQ728260 |
| KY978557 | KJ818305 | KP676961 | KR185979 | MF422545 |
| KP398839 | LC013473 | KP676960 | KC879538 | MG550920 |
| LC175769 | LC412066 | KP676959 | KC879498 | LC175758 |
| LC169514 | KP398837 | MF422544 | KC879555 | KJ818310 |
| LC169517 | KP398833 | KY978537 | LC175762 | KP398838 |
| KT353722 |  |  |  |  |

| **CV-A6 Sequences** | | | | |
| --- | --- | --- | --- | --- |
| LC421650 | KJ848301 | KM079540 | KY856716 | MF596100 |
| LR027552 | MF991295 | KM079531 | LC413166 | MF285647 |
| KF412903 | MF962682 | KM079532 | LC413139 | MF596093 |
| LT719048 | KT779412 | KM079526 | MG385776 | MF285640 |
| LT719047 | MH544984 | KM079519 | MG385754 | MF596106 |
| KC866915 | MH544982 | KM079578 | MG385751 | MF285652 |
| KP143073 | MH544970 | KM079522 | MH018523 | MF596090 |
| KP143074 | KY424411 | MF373605 | MH018522 | MF596089 |
| KP143078 | KU958491 | KJ865444 | MH018521 | MF285637 |
| LC421656 | KP289620 | KJ865447 | MG385820 | MF285636 |
| LC421592 | KP289392 | KF836579 | LC481418 | KP289479 |
| KP143076 | KP289389 | KT985015 | LC481417 | KY972305 |
| KP143075 | KP289702 | KT985014 | LC481401 | KX871240 |
| JQ364886 | KP289974 | KY424420 | LC481400 | KF836567 |
| AY421764 | KP289991 | KJ577315 | LC481395 | KY424398 |
| AF081297 | KP289742 | KJ577340 | LC481392 | KF647880 |
| JQ364887 | KP289470 | KC414743 | LC413161 | KY913464 |
| JN203517 | KP289460 | KC207832 | MH018514 | KP289895 |
| KP143079 | KP289936 | KY913440 | MG385815 | KP289865 |
| MF596069 | KP289682 | KY913439 | MG385797 | KP289838 |
| MF285625 | KP289938 | KY913436 | LC481428 | KP289817 |
| MF596067 | KP289520 | KJ577312 | LC481427 | KP289851 |
| MF285623 | KP289587 | KJ577283 | LC481422 | KP289833 |
| JX495127 | KP289510 | KJ577281 | MH018513 | KP289706 |
| JX495126 | KP289807 | KJ577293 | MH018512 | KP289818 |
| KJ609188 | KP289615 | KJ577280 | LC481433 | KP289771 |
| KJ577289 | MH544981 | KJ577301 | MG385798 | KP289825 |
| KY913429 | MF596103 | JX473334 | MH018515 | KP289604 |
| JX473340 | MF285649 | KJ577292 | MG385793 | KP289472 |
| KY424419 | KT985023 | KJ577300 | MG385764 | KP290000 |
| KT779410 | KY211701 | JX495137 | MG385801 | KP289849 |
| KM279379 | KT985019 | KJ156350 | MG385795 | KP289842 |
| KY424406 | KX064298 | KM079558 | MH018518 | KP289906 |
| KY424374 | KU212263 | KJ865424 | MH018520 | KP289989 |
| KJ743209 | KX064288 | JX154929 | MH018519 | KP289956 |
| KJ577273 | KU736934 | KY913434 | MG385826 | KP289967 |
| KY424408 | KX064287 | KJ743212 | MH018517 | KP289900 |
| KT985026 | KU736935 | JX473343 | MH018516 | KP289796 |
| KT985011 | KJ577389 | KJ577290 | LC481416 | KP289599 |
| KT124610 | MF991297 | JX495134 | LC481411 | KP289987 |
| KT124607 | MF991296 | KX189190 | LC481408 | KP289902 |
| KJ848296 | MF962687 | KF836601 | LC481407 | KP289898 |
| KT124601 | MF962686 | JX473335 | LC481406 | KP289812 |
| KY424390 | MF962685 | KY913433 | MG385825 | KP289717 |
| KY424358 | MF962684 | KJ865429 | MG385823 | KP289651 |
| KT985012 | MF962683 | KM079577 | MG385767 | KP289650 |
| KT985010 | KJ541390 | KM079557 | MG385784 | KP289649 |
| KJ577387 | KJ541371 | KM079559 | KY856715 | KP289648 |
| KU708572 | KJ541400 | KM079504 | KY856712 | KP289617 |
| MF596068 | KF647884 | KY913430 | MG385829 | KP289606 |
| MF285624 | KU212279 | KM079516 | MG385828 | KP289534 |
| KT124604 | MF596092 | KM079507 | MG385827 | KP289385 |
| KT124602 | MF285639 | KC866904 | MG385774 | KP289819 |
| KY211727 | KY424381 | KM079511 | MG385772 | KP289875 |
| KY424393 | KU212262 | KM079506 | MG385814 | KP289816 |
| JQ964234 | KX064301 | KM079509 | MG385788 | KP289724 |
| JN797598 | KX064306 | KM079508 | MG385757 | KP289951 |
| JX154921 | KU212272 | KC866909 | LC481415 | KP289457 |
| KC866913 | KX064300 | KC866908 | MG385786 | KP289444 |
| KU708574 | KU212268 | KC866918 | MG385782 | KP289443 |
| KJ848297 | KJ541411 | KC866911 | MH018544 | KP289691 |
| KY211690 | KJ541412 | KC866905 | MH018541 | KP289446 |
| JX495129 | KJ541405 | HE572938 | MH018543 | KP289908 |
| KT985016 | MG488226 | HE572928 | MH018542 | KP289876 |
| KT124603 | KY913486 | HE572926 | MH018540 | KY913479 |
| JQ364889 | KY424395 | HE572924 | MH018539 | KY817159 |
| KJ577299 | KJ612513 | HE572922 | LC481396 | KY424386 |
| JX495145 | KJ541381 | HE572918 | MH018532 | MH716167 |
| KU708571 | KJ541160 | HE572915 | MH018531 | MF596107 |
| KU708569 | KX064304 | HE572936 | MH018538 | KY497432 |
| KY211723 | KU212274 | HE572920 | MH018537 | KY913480 |
| KJ577288 | KU212269 | KC866912 | MH018536 | KF647881 |
| KJ577287 | KP289657 | KC866901 | MH018535 | KP289694 |
| MF596066 | KJ541396 | KM079510 | MH018534 | KP289685 |
| MF285622 | KY424426 | KJ865422 | MH018533 | KJ743232 |
| JX495118 | KP005922 | KX372340 | MH018530 | LC013425 |
| KC866917 | KP005921 | KX212514 | MH018529 | LC412046 |
| KJ743213 | KP005881 | KX212347 | MH018525 | LC013424 |
| KC867008 | KP005916 | KX212518 | MH018524 | KY424401 |
| KJ577297 | KP005896 | KX212467 | MH018528 | KP289891 |
| JX495119 | KM079588 | KX212462 | MH018527 | KP289879 |
| KC866916 | KJ018114 | KX212464 | MH018526 | KP289652 |
| KC866914 | MF962689 | KX212463 | MG385830 | KJ743215 |
| KC866903 | KT124605 | KX212471 | LC413143 | KP289582 |
| JX495130 | KP289847 | KX212470 | MG385802 | LC412976 |
| KY211711 | KP289792 | KX212461 | LC413129 | LC412975 |
| JX495132 | KP289588 | KX212444 | MG385819 | LC412972 |
| KJ865427 | KP289375 | KX212443 | MG385813 | LC412974 |
| KJ609186 | KJ541415 | KX212472 | KY856718 | LC412973 |
| KJ577285 | KJ541414 | KX212517 | MG385799 | LC412971 |
| JN639896 | KF836603 | KX212473 | MG385818 | LC412969 |
| JN639895 | KF647887 | KX212469 | MG385778 | LC412968 |
| JN655886 | KJ541413 | KX212468 | MG385800 | LC412970 |
| KJ577284 | MF596073 | KX212446 | MG385796 | LC412967 |
| KJ577282 | KJ541383 | KX212516 | MG385824 | MG385803 |
| KC866921 | KJ541162 | KX212459 | KY856709 | LC413148 |
| KC866906 | KF647889 | KX212457 | MG385791 | LC413151 |
| KC866902 | KJ541394 | KX212449 | LC481419 | LC413144 |
| KC866919 | KY913474 | KX212465 | LC481398 | LC413142 |
| JQ364888 | KJ541423 | KX212456 | LC413160 | MF596143 |
| KP143080 | MF991293 | KX212455 | LC413155 | MF285680 |
| KP143077 | MF962678 | KX212450 | MH536772 | LC413140 |
| KC866900 | KJ541398 | KX212454 | MH018511 | LC413133 |
| KM079503 | KF647875 | KX212466 | MG385821 | LC413154 |
| KM079502 | MF962688 | KX212458 | MH018510 | LC413141 |
| JX495141 | MF991292 | KX212447 | MG385787 | LC413137 |
| JX495133 | MF962677 | KX212515 | MG385773 | LC413132 |
| JX495120 | MF596079 | KX212448 | MG385822 | LC413123 |
| MF596065 | MF285628 | KX212453 | MG385817 | LC413136 |
| MF285621 | MF596078 | KX212451 | MG385807 | LC413125 |
| KY211724 | KY211710 | KX212452 | MG385759 | KY856711 |
| KY211707 | MF596075 | KX212445 | MG385806 | MF596109 |
| KP143081 | MF285626 | KU212265 | MG385810 | LC412939 |
| KM079513 | MF962690 | KX212513 | MG385781 | KY424357 |
| KM079512 | KJ848300 | KX212440 | LC481426 | LC412935 |
| AB779617 | KJ541378 | KX212512 | LC481424 | KY211719 |
| LC421628 | KJ541410 | KX212442 | LC481429 | LC412045 |
| LC421629 | KJ541421 | KX212510 | LC481425 | MF596122 |
| LC421627 | KJ541373 | KX212439 | LC481420 | LC430229 |
| LC126149 | KJ541402 | KX212438 | LC481391 | LC413152 |
| LC126147 | KJ541382 | KX212519 | LC481402 | LC413149 |
| LC126148 | KJ541161 | KX212460 | LC481399 | LC413121 |
| LC421626 | KF647888 | KP144341 | LC413158 | LC413157 |
| LC421624 | KT985032 | KP144340 | LC413171 | LC413145 |
| LC421623 | KJ541417 | KX212511 | LC413128 | LC412036 |
| LC421622 | KP289910 | KX212441 | LC413165 | KY817153 |
| LC421618 | KP289860 | LC421638 | LC413147 | LC412032 |
| LC421612 | KP289477 | LC421637 | LC413156 | LC412048 |
| LC421609 | KJ541428 | LC421636 | LC413134 | LC013445 |
| LC421607 | KJ541425 | LC421635 | LC413122 | LC412025 |
| LC421605 | KJ848299 | LC421631 | MH018509 | LC013438 |
| LC421603 | KJ848298 | LC126152 | MH018508 | LC013427 |
| LC421617 | KJ577392 | LC126151 | MH018507 | LC013436 |
| LC421625 | MF596126 | LC421634 | MH018506 | LC412040 |
| LC421621 | MF285666 | LC421633 | MH018505 | LC412027 |
| LC421620 | KY211696 | LC421632 | MG385816 | LC013440 |
| LC421619 | KY211699 | LC421630 | MG385805 | KY211731 |
| LC421616 | MF596140 | KX212351 | MG385752 | LC412052 |
| LC421613 | MF285677 | KX212521 | KY817188 | LC412051 |
| LC421610 | MF596121 | KX212482 | MF596139 | LC013456 |
| LC421604 | MF596102 | MK167116 | LC413180 | LC013455 |
| LC421602 | KY424366 | MK167123 | LC413146 | LC412035 |
| LC421615 | KY913526 | MK167122 | MF455511 | LC412034 |
| LC421608 | KY817165 | MK167113 | MF455510 | LC013448 |
| LC421606 | KY211694 | MK167111 | MG488228 | LC013447 |
| LC421614 | MF596098 | MK167104 | MG488224 | LC412050 |
| LC421611 | MF285645 | MK167088 | KY424356 | LC013454 |
| MF838736 | LC412965 | MK167049 | MG488204 | LC412015 |
| FR797988 | KY211695 | MK167052 | MG488208 | LC013420 |
| HE572939 | KU708606 | MK167110 | MG488207 | LC013435 |
| HE572927 | KJ541401 | MK167108 | MG488206 | LC013421 |
| HE572910 | KP289943 | MK167091 | MG488205 | LC412026 |
| HE572934 | KJ541422 | MK167087 | KX871241 | LC013439 |
| HE572929 | KJ541440 | MK167084 | KY913491 | MH716144 |
| HE572923 | KJ541416 | MK167080 | LC412944 | KY817148 |
| HE572917 | KJ541404 | MK167078 | LC412937 | KY817147 |
| HE572916 | KJ541420 | MK167077 | KY913518 | KY817146 |
| HE572919 | KJ541389 | MK167076 | KY972309 | LC412945 |
| HE572911 | KJ541406 | MK167075 | KU736943 | KY913527 |
| HE572933 | KJ541392 | MK167073 | KX064297 | KY913514 |
| HE572932 | KJ541430 | MK167070 | KU736947 | KY913521 |
| HE572908 | KF647883 | MK167069 | KX871243 | KY913529 |
| HE572931 | KJ541409 | MK167068 | KY913517 | KY913512 |
| HE572921 | KX064302 | MK167065 | KP289888 | KY913511 |
| HE572930 | KU212273 | MK167064 | MF962676 | KY913504 |
| HE572912 | KJ541408 | MK167060 | MF962675 | KY913495 |
| HE572901 | KP289919 | MK167056 | KU708581 | KY913484 |
| HE572935 | KY913478 | MK167074 | KJ743219 | MH018490 |
| MF422554 | KY913461 | MK167071 | KY211705 | MH018488 |
| MF422552 | KY424391 | MK167085 | LC421652 | KU708611 |
| MF422555 | KX189177 | MK167121 | LC421651 | KU708570 |
| MF422553 | KF836555 | MK167120 | LC420006 | MH018489 |
| MF422556 | KM079501 | MK167118 | LC420013 | LC412047 |
| KR706309 | KP005898 | MK167112 | LC420001 | KY211730 |
| JQ946053 | KJ541407 | MK167114 | LC420005 | LC412022 |
| LC421599 | KP005915 | MK167094 | LC420000 | LC013431 |
| LC421595 | KJ577405 | MK167098 | LC419999 | LC013428 |
| LC126145 | KJ541419 | MK167093 | LC421649 | LC412043 |
| AB779614 | KJ541403 | MK167083 | LC421648 | LC412044 |
| LC421601 | KJ541399 | MK167095 | MK167106 | LC412039 |
| LC421593 | KJ541431 | MK167048 | MK167102 | LC412038 |
| LC421600 | KP289597 | MK167119 | MH018484 | LC412037 |
| LC421596 | KU958495 | MK167107 | KY856714 | LC412031 |
| LC421591 | KP289845 | MK167051 | KY856710 | LC013444 |
| LC421590 | KP289844 | MK167047 | MG385775 | LC412016 |
| LC421588 | KP289843 | MK167117 | MG385753 | LC412042 |
| LC421586 | KP289837 | MK167063 | KY817187 | LC412021 |
| LC421587 | KP289761 | MK167053 | KY817175 | LC013429 |
| LC421589 | KP289734 | MK167054 | MG385765 | LC412018 |
| LC421597 | KP289708 | MK167055 | MG385749 | LC013434 |
| LC421594 | KP289640 | MK167058 | MH716170 | LC013423 |
| AB779616 | KP289580 | MK167061 | LC412955 | LC412020 |
| LC421598 | KP289569 | MK167089 | LC412952 | LC412033 |
| LC126146 | KP289503 | MK167066 | KY913513 | LC013446 |
| LC126144 | KP289387 | MK167086 | MH018483 | LC013426 |
| LC126143 | KP289391 | MK167072 | KY913525 | LC412017 |
| FR797987 | KP289492 | MK167099 | KY817182 | LC013422 |
| FR797986 | KP289515 | MK167081 | KY817174 | LC412029 |
| FR797985 | KP289926 | MK167079 | KY817173 | LC013442 |
| FR797984 | KP289836 | MK167062 | KY817172 | LC412030 |
| KX212476 | KP289709 | MK167092 | LC412961 | LC013443 |
| KX212527 | KP289703 | KX212524 | LC412941 | KY972303 |
| KX575864 | KP289855 | KX212477 | LC412940 | KU212275 |
| KX575862 | KP289840 | KX212523 | MH716169 | KU736942 |
| KX575865 | KP289468 | KX212478 | KY972304 | KY424412 |
| KX575863 | KP289935 | KX212522 | KY972301 | KU212271 |
| MK086189 | KP289673 | KX212479 | KY972300 | KY424384 |
| KX212526 | KP289917 | KX212525 | KU736939 | LC412028 |
| KX212475 | KP289880 | KX212480 | MH018482 | LC013441 |
| KX212474 | KP289798 | KP144348 | KY817167 | KY211732 |
| KP144353 | KP289786 | KP144347 | LC412943 | LC412019 |
| KP144351 | KP289942 | KX212520 | LC412936 | KP289380 |
| KP144352 | KP289719 | KX212481 | KY424370 | KP289377 |
| KP144349 | KP289813 | KP144350 | KY817169 | KP005918 |
| LC421647 | KP289947 | MH539787 | KY817168 | KP005865 |
| LC364165 | KP289616 | MH539786 | MF455514 | MF962673 |
| LC364164 | KP289386 | MH539784 | MF455513 | KJ541376 |
| LC364163 | KP289871 | MH539785 | LC413181 | KJ541370 |
| LC421645 | KP289814 | KY796178 | LC413135 | KY913496 |
| LC364161 | KP289781 | KY796177 | KY497436 | KP289738 |
| LC364157 | KP289740 | KU366287 | KY817171 | KJ577348 |
| LC364153 | KP289735 | KY796183 | KY817170 | KJ577345 |
| LC364152 | KP289744 | KY796168 | MG488225 | MF962669 |
| LC364149 | KP289548 | MK167096 | MF596132 | MF962668 |
| LC364147 | KP289509 | MH111055 | MF285671 | KJ577353 |
| LC364130 | KU212264 | MH111052 | KY424376 | KJ577337 |
| LC224159 | KP289962 | MH111047 | MG488229 | KJ577333 |
| LC364132 | KJ577388 | LC420008 | KP005919 | KJ577412 |
| LC364150 | KP005893 | KY796170 | KP005874 | KJ577364 |
| LC364141 | KF836605 | MH111038 | KY424423 | KJ577366 |
| LC364143 | KY913472 | LC364185 | KT985036 | KT985028 |
| LC364142 | KJ541432 | LC364188 | KP289764 | KJ743243 |
| LC364140 | MF596129 | LC364180 | KP289827 | KJ577358 |
| LC364156 | MF285668 | LC364179 | KP289733 | KJ577357 |
| LC364159 | KY913483 | LC364178 | KP289700 | KJ577304 |
| LC364136 | KY211718 | LC364175 | KP289663 | KJ577316 |
| MH111051 | KP289789 | LC364174 | LC412938 | KJ577396 |
| KX212502 | KP289379 | LC364173 | MG385804 | KJ577322 |
| KX212415 | KU958492 | LC364172 | MF596149 | KJ577356 |
| MF596136 | KP289374 | LC364171 | MF285684 | KJ577410 |
| MF285675 | KP289872 | LC364170 | MF596148 | KJ577318 |
| KX212413 | MF596095 | LC364169 | MF285683 | KJ577310 |
| MK510082 | MF285642 | LC364176 | KY972297 | KJ577313 |
| MH111044 | MF596112 | LC364184 | KX871246 | KJ609199 |
| LC420011 | MF285654 | LC364182 | MF596111 | KJ609192 |
| LC420003 | KU708619 | LC364187 | MF285653 | KJ577376 |
| LC420002 | KU708609 | LC364186 | MF596137 | KJ577360 |
| LC420004 | KX064286 | MH111049 | MF285676 | KJ577384 |
| LC419996 | KU736932 | MH111048 | KY211709 | KJ577380 |
| KX212501 | KX064303 | MH111050 | KU708615 | KJ577397 |
| KX212422 | KU212276 | MH111032 | MF596130 | KJ609195 |
| KX212394 | KU708592 | MH111046 | MF285669 | KJ577375 |
| KX212388 | MF455512 | MH111039 | KP005909 | KJ577363 |
| KJ541375 | KJ541437 | MH111036 | KP005908 | KJ577361 |
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| KM079573 | KX212349 | KY231153 | KY211741 | KP289751 |
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| KU885541 | MG838793 | KX768202 | FR796487 | HE572950 |
| KJ156356 | LC411995 | KX768207 | FR796488 | HE572972 |
| MG838806 | LC013457 | KX768164 | FR796492 | HE572980 |
| HE572960 | HE572959 | HE572954 | HE572966 | HE572962 |
| HE572942 |  |  |  |  |