

Table S1. Origin of the 175 *Fusarium oxysporum* isolates from celery with symptoms of Fusarium yellows that were tested for virulence and sequenced in an intron-rich region of the elongation factor 1 α (EF1 α) and ribosomal DNA intergenic spacer (rDNA IGS) amplicons. Isolates highlighted in yellow were next generation sequenced.

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-------------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 001 | | 1 | . | Salinas | Monterey | CA | 93 | NPR2H | 0.1 | 0.1 | AV | 1 | KX619056 | KX619230 |
| 003 | | 2 | . | Oxnard area | Ventura Co. | CA | 93 | 2 | 3.4 | 0.2 | HV | 1 | KX619057 | KX619231 |
| 004 | | 3 | . | Salinas | Monterey | CA | 93 | 2 | 2 | 0.49 | MV | 1 | KX619058 | KX619232 |
| 005 | | 4 | . | Camarillo | Ventura Co. | CA | 93 | NPR2H | 0.7 | 0.42 | AV | 1 | KX619059 | KX619233 |
| 013 | | 5 | . | Gonzales | Monterey | CA | 93 | 2 | 3.6 | 0.34 | HV | 1 | KX619060 | KX619234 |
| 015 | | 6 | . | Gonzales | Monterey | CA | 94 | 2 | 2.9 | 0.46 | MV | 1 | KX619061 | KX619235 |
| 017 | | 7 | . | Gonzales | Monterey | CA | 94 | NP | 0 | 0 | AV | 2 | KX619062 | KX619236 |
| 018 | | 8 | . | Santa Maria | Santa Barbara | CA | 93 | 2 | 3.5 | 0.45 | HV | 1 | KX619063 | KX619237 |
| 021 | | 9 | G5 | Oxnard area | Ventura Co. | CA | 93 | 2 | 1.4 | 0.31 | WV | 1 | KX619064 | KX619238 |
| 023 | | 10 | . | Lompoc | Santa Barbara | CA | 93 | 2 | 2.9 | 0.41 | MV | 1 | KX619065 | KX619239 |
| 025 | | 11 | . | Salinas | Monterey | CA | 96 | NP | 0 | 0 | AV | 3 | KX619066 | KX619240 |
| 028 | | 11? | . | Salinas | Monterey | CA | 96 | 2 | 2.6 | 0.58 | MV | 1 | KX619067 | KX619241 |
| 032 | | 11? | . | Salinas | Monterey | CA | 96 | 2 | 3.8 | 0.13 | HV | 1 | KX619068 | KX619242 |
| 033 | | 11? | . | Salinas | Monterey | CA | 96 | 2 | 3.7 | 0.21 | HV | 1 | KX619069 | KX619243 |
| 039 | | 12 | . | Salinas | Monterey | CA | 96 | 2 | 4.8 | 0.13 | HV | 1 | KX619070 | KX619244 |
| 040 | | 12? | . | Salinas | Monterey | CA | 96 | 2 | 5 | 0 | HV | 1 | KX619071 | KX619245 |
| 043 | | 12? | . | Salinas | Monterey | CA | 96 | 2 | 1.9 | 0.43 | WV | 1 | KX619072 | KX619246 |
| 046 | | 12? | . | Salinas | Monterey | CA | 96 | 2 | 2 | 0.56 | MV | 1 | KX619073 | KX619247 |
| 049 | | 12? | . | Salinas | Monterey | CA | 96 | 2 | 4.8 | 0.13 | HV | 1 | KX619074 | KX619248 |
| 051 | | 13 | Ponderosa | | | Ohio | 96 | 2 | 4.2 | 0.49 | HV | 1 | KX619075 | KX619249 |
| 052 | | 13? | Ponderosa | | | Ohio | 96 | 2 | 3 | 0.42 | HV | 1 | KX619076 | KX619250 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-------------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 055 | | 13? | Ponderosa | | | Ohio | 96 | 2 | 4.5 | 0.22 | HV | 1 | KX619077 | KX619251 |
| 056 | | 14 | UTR 1977-1 | | | Ohio | 96 | 2 | 3.9 | 0.1 | HV | 1 | KX619078 | KX619252 |
| 057 | | 14? | UTR 1977-1 | | | Ohio | 96 | 2 | 2.9 | 0.5 | MV | 1 | KX619079 | KX619253 |
| 059 | | 14? | UTR 1977-1 | | | Ohio | 96 | 2 | 2.3 | 0.5 | MV | 1 | KX619080 | KX619254 |
| 062 | | 15 | Golden Plume | | San Bernadino | CA | 89 | 2 | 4.5 | 0.17 | HV | 1 | KX619081 | KX619255 |
| 064 | | 16 | . | | Monterey | CA | 94 | 2 | 1.3 | 0.3 | WV | 1 | KX619082 | KX619256 |
| 067 | | 17 | . | Santa Maria | Santa Barbara | CA | 94 | 2 | 4 | 0 | HV | 1 | KX619083 | KX619257 |
| 068 | | 17 | . | Santa Maria | Santa Barbara | CA | 94 | 2 | 3.6 | 0.16 | HV | 1 | KX619084 | KX619258 |
| 069 | | 17 | . | Santa Maria | Santa Barbara | CA | 94 | 2 | 3.3 | 0.42 | HV | 1 | KX619085 | KX619259 |
| 070 | | 17 | . | Santa Maria | Santa Barbara | CA | 94 | 2 | 3.4 | 0.45 | HV | 1 | KX619086 | KX619260 |
| 071 | | 18 | . | Salinas | Monterey | CA | 94 | NPR2H | 0 | 0 | AV | 1 | KX619087 | KX619261 |
| 073 | | 19 | . | Santa Maria | Santa Barbara | CA | 94 | 2 | 4.1 | 0.18 | HV | 1 | KX619088 | KX619262 |
| 074 | | 20 | . | | Ventura | CA | 95 | NPR2H | 0.9 | 0.35 | AV | 1 | KX619089 | KX619263 |
| 077 | | 21 | . | | Monterey | CA | 95 | 2 | 3.5 | 0.27 | HV | 1 | KX619090 | KX619264 |
| 086 | | 22 | . | Salinas | Monterey | CA | 81 | NPR2H | 0 | 0 | AV | 1 | KX619091 | KX619265 |
| 101-JA1-C | | 22 | . | Salinas | Monterey | CA | 96 | 2 | 1.3 | 0.4 | WV | 1 | KX619092 | KX619266 |
| 106-JA1-J | | 22 | . | Salinas | Monterey | CA | 96 | 2 | 1.8 | 0.4 | WV | 1 | KX619093 | KX619267 |
| 109 | | 22 | . | Salinas | Monterey | CA | 94 | NPR2H | 0.2 | 0.2 | AV | 1 | KX619094 | KX619268 |
| 201 | | 23 | TU52-70R | Oxnard | Ventura | CA | 10 | NP | 0 | 0 | AV | 12 | KX619095 | KX619269 |
| 202 | | 23 | TU52-70R | Oxnard | Ventura | CA | 10 | 2 | 3.8 | 0.44 | HV | 1 | KX619096 | KX619270 |
| 204 | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | 2 | 3.2 | 0.53 | HV | 1 | KX619097 | KX619271 |
| 205-A | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | 2 | 1.8 | 0.5 | WV | 1 | KX619098 | KX619272 |
| 205-B | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | 2 | 1.4 | 0.52 | WV | 1 | KX619099 | KX619273 |
| 205-C | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | NPR2H | 0.7 | 0.52 | AV | 1 | KX619100 | KX619274 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-------------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 206 | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | 2 | 1.5 | 0.58 | WV | 1 | KX619101 | KX619275 |
| 207-A | 207-A1A2 | 24 | TU52-70R | Santa Maria | Santa Barbara | CA | 10 | 2 | 4.1 | 0.1 | HV | 1 | KX619102 | KX619276 |
| 207-B | | 24 | TU52-70R | Santa Maria | Santa Barbara | CA | 10 | NP | 0.1 | 0.1 | AV | 10 | KX619103 | KX619277 |
| 208-A | | 24 | UC10A069 | Santa Maria | Santa Barbara | CA | 10 | NP | 0.2 | 0.2 | AV | 10 | KX619104 | KX619278 |
| 209 | | 24 | UC10A069 | Santa Maria | Santa Barbara | CA | 10 | 2 | 3.9 | 0.1 | HV | 1 | KX619105 | KX619279 |
| 210-A | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | NP | 0.2 | 0.2 | AV | 4 | KX619106 | KX619280 |
| 210-B | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | NP | 0 | 0 | AV | 4 | KX619107 | KX619281 |
| 211 | | 24 | Sonora | Santa Maria | Santa Barbara | CA | 10 | 2 | 4.3 | 0.26 | HV | 1 | KX619108 | KX619282 |
| 212-A | | 24 | Conquistador | Santa Maria | Santa Barbara | CA | 10 | NP | 0.2 | 0.2 | AV | 4 | KX619109 | KX619283 |
| 212-B | | 24 | Conquistador | Santa Maria | Santa Barbara | CA | 10 | 2 | 3.1 | 0.57 | HV | 1 | KX619110 | KX619284 |
| 214 | | 24 | TU52-75 | Santa Maria | Santa Barbara | CA | 10 | 2 | 2.4 | 0.6 | MV | 1 | KX619111 | KX619285 |
| 215-B | | 24 | TU52-75 | Santa Maria | Santa Barbara | CA | 10 | NP | 0 | | AV | 4 | KX619112 | KX619286 |
| 218 | | 24 | UC10A100 | Santa Maria | Santa Barbara | CA | 10 | 2 | 4.1 | 0.18 | HV | 1 | KX619113 | KX619287 |
| 220-C | | 24 | TU52-70R | Santa Maria | Santa Barbara | CA | 10 | NP | 0 | 0 | AV | 5 | KX619114 | KX619288 |
| 221-B | | 24 | TU52-70R | Santa Maria | Santa Barbara | CA | 10 | NP | 0 | 0 | AV | 6 | KX619115 | KX619289 |
| 222-1A | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619116 | KX619290 |
| 222-1B | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0.8 | 0.4 | AV | 7 | KX619117 | KX619291 |
| 222-2A | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | NPR2H | 0.9 | 0.4 | AV | 1 | KX619118 | KX619292 |
| 223-1A | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | NP | 0.2 | 0.2 | AV | 8 | KX619119 | KX619293 |
| 223-2 | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | 2 | 1.8 | 0.65 | WV | 1 | KX619120 | KX619294 |
| 223-3A | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619121 | KX619295 |
| 223-3B | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 9 | KX619122 | KX619296 |
| 223-4A | | 25 | TU52-75 | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619123 | KX619297 |
| 224-A | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619124 | KX619298 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|---------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 224-B | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 1.4 | 0.5 | WV | 1 | KX619125 | KX619299 |
| 225-2A | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 2.7 | 0.37 | MV | 1 | KX619126 | KX619300 |
| 226-1A | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619127 | KX619301 |
| 226-1B | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 11 | KX619128 | KX619302 |
| 226-2A | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 4.3 | 0.2 | HV | 1 | KX619129 | KX619303 |
| 226-2B | | 25 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 11 | KX619130 | KX619304 |
| 228-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 16 | KX619131 | KX619305 |
| 229-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619132 | KX619306 |
| 230 | | 26 | mixed | Ventura | Ventura | CA | 11 | 2 | 1.2 | 0.5 | WV | 1 | KX619133 | KX619307 |
| 232 | | 26 | mixed | Ventura | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619134 | KX619308 |
| 233 | | 26 | mixed | Ventura | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619135 | KX619309 |
| 234-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619136 | KX619310 |
| 235-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619137 | KX619311 |
| 236-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619138 | KX619312 |
| 236-B | | 26 | mixed | Ventura | Ventura | CA | 11 | 2 | 1.4 | 0.4 | WV | 1 | KX619139 | KX619313 |
| 237-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 12 | KX619140 | KX619314 |
| 237-B | | 26 | mixed | Ventura | Ventura | CA | 11 | 2 | 1.1 | 0.46 | WV | 1 | KX619141 | KX619315 |
| 238-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619142 | KX619316 |
| 238-B | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 12 | KX619143 | KX619317 |
| 239-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 12 | KX619144 | KX619318 |
| 239-B | | 26 | mixed | Ventura | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619145 | KX619319 |
| 240-A | | 26 | mixed | Ventura | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619146 | KX619320 |
| 240-B | | 26 | mixed | Ventura | Ventura | CA | 11 | 2 | 2.4 | 0.54 | MV | 1 | KX619147 | KX619321 |
| 241-1A | | 27 | Sonora | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 12 | KX619148 | KX619322 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|--------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 241-1B | | 27 | Sonora | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 11 | KX619149 | KX619323 |
| 241-2A | | 27 | Sonora | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619150 | KX619324 |
| 241-2B | | 27 | Sonora | Oxnard | Ventura | CA | 11 | 2 | 3.1 | 0.43 | HV | 1 | KX619151 | KX619325 |
| 241-2C | | 27 | Sonora | Oxnard | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619152 | KX619326 |
| 242-1A | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 11 | KX619153 | KX619327 |
| 242-1B | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 10 | KX619154 | KX619328 |
| 242-2A | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 2.1 | 0.5 | MV | 1 | KX619155 | KX619329 |
| 242-2B | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 11 | KX619156 | KX619330 |
| 243-1A | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 3.2 | 0.4 | HV | 1 | KX619157 | KX619331 |
| 243-2 | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619158 | KX619332 |
| 244-1A | | 27 | . | Oxnard | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619159 | KX619333 |
| 244-2A | | 27 | . | Oxnard | Ventura | CA | 11 | 2 | 2.4 | 0.48 | MV | 1 | KX619160 | KX619334 |
| 244-2B | | 27 | . | Oxnard | Ventura | CA | 11 | NPR2H | 0.8 | 0.4 | AV | 1 | KX619161 | KX619335 |
| 245-1A | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 16 | KX619162 | KX619336 |
| 245-1B | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | 2 | 2 | 0.6 | MV | 1 | KX619163 | KX619337 |
| 245-2A | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | 2 | 2.9 | 0.43 | MV | 1 | KX619164 | KX619338 |
| 245-2C | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619165 | KX619339 |
| 246-A | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619166 | KX619340 |
| 246-B | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 4 | KX619167 | KX619341 |
| 246-C | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619168 | KX619342 |
| 247-1A | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | 2 | 3.9 | 0.1 | HV | 1 | KX619169 | KX619343 |
| 247-1B | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 7 | KX619170 | KX619344 |
| 247-2A | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 8 | KX619171 | KX619345 |
| 247-2B | | 27 | Conquistado | Oxnard | Ventura | CA | 11 | 2 | 3.8 | 0.49 | HV | 1 | KX619172 | KX619346 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-------------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 248-A | | 27 | TU52-70R | Oxnard | Ventura | CA | 11 | 2 | 2.3 | 0.4 | MV | 1 | KX619173 | KX619347 |
| 248-B | | 27 | | Oxnard | Ventura | CA | 11 | NP | 0.8 | 0.4 | AV | 10 | KX619174 | KX619348 |
| 249-1A | | 27 | T28153 | Oxnard | Ventura | CA | 11 | NP | 0 | 0 | AV | 13 | KX619175 | KX619349 |
| 249-2A | | 27 | T28153 | Oxnard | Ventura | CA | 11 | 2 | 3.2 | 0.65 | HV | 1 | KX619176 | KX619350 |
| 249-2B | | 27 | T28153 | Oxnard | Ventura | CA | 11 | 2 | 1.9 | 0.48 | WV | 1 | KX619177 | KX619351 |
| 250-12B | | 28 | . | Decatur | Van Buren | MI | 11 | 1 | 0.3 | 0.3 | AV | 18 | KX619178 | KX619352 |
| 250-13A | | 28 | . | Decatur | Van Buren | MI | 11 | 2 | 1.3 | 0.6 | WV | 1 | KX619179 | KX619353 |
| 250-7 | | 28 | . | Decatur | Van Buren | MI | 11 | 1 | 0.4 | 0.3 | AV | 18 | KX619180 | KX619354 |
| 250-9 | | 28 | . | Decatur | Van Buren | MI | 11 | 2 | 1.5 | 0.5 | WV | 1 | KX619181 | KX619355 |
| 251-1 | | 29 | . | Kettleby | (Ontario) | Canada | 11 | 2 | 1.9 | 0.5 | WV | 1 | KX619182 | KX619356 |
| 251-2 | | 29 | . | Kettleby | (Ontario) | Canada | 11 | NP | 0.6 | 0.3 | AV | 14 | KX619183 | KX619357 |
| 251-3 | | 29 | . | Kettleby | (Ontario) | Canada | 11 | 2 | 1.4 | 0.5 | WV | 1 | KX619184 | KX619358 |
| 251-4 | | 29 | . | Kettleby | (Ontario) | Canada | 11 | NPR2H | 0.3 | 0.3 | AV | 1 | KX619185 | KX619359 |
| 253-1 | | 30 | TU-52-70R | Santa Maria | Santa Barbara | CA | 11 | 2 | 1.1 | 0.5 | WV | 1 | KX619186 | KX619360 |
| 256-1 | | 30 | UC11A-104 | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0.4 | 0.3 | AV | 1 | KX619187 | KX619361 |
| 257-1 | | 30 | UC11A-105 | Santa Maria | Santa Barbara | CA | 11 | 2 | 2 | 0.5 | MV | 1 | KX619188 | KX619362 |
| 258-1A | | 30 | UC11-079 | Santa Maria | Santa Barbara | CA | 11 | NP | 0 | 0 | AV | 15 | KX619189 | KX619363 |
| 258-1B | | 30 | UC11-079 | Santa Maria | Santa Barbara | CA | 11 | 2 | 4 | 0 | HV | 1 | KX619190 | KX619364 |
| 259-1A | | 30 | TU52-70R | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619191 | KX619365 |
| 260-1 | | 30 | Sonora | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619192 | KX619366 |
| 261-1A | | 30 | Conquistador | Santa Maria | Santa Barbara | CA | 11 | NP | 0 | 0 | AV | 16 | KX619193 | KX619367 |
| 261-1B | | 30 | Conquistador | Santa Maria | Santa Barbara | CA | 11 | NP | 0 | 0 | AV | 10 | KX619194 | KX619368 |
| 262-1 | | 30 | Tall Utah 52 | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0 | 0 | AV | 1 | KX619195 | KX619369 |
| 263-1 | | 30 | TZ-6209 | Santa Maria | Santa Barbara | CA | 11 | 2 | 2.5 | 0.5 | MV | 1 | KX619196 | KX619370 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-------------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 264-1B | | 30 | Conquistador | Santa Maria | Santa Barbara | CA | 11 | NP | 0 | 0 | AV | 10 | KX619197 | KX619371 |
| 264-1C | | 30 | Conquistador | Santa Maria | Santa Barbara | CA | 11 | 2 | 1.4 | 0.6 | WV | 1 | KX619198 | KX619372 |
| 265-1A | | 30 | TZ-8153 | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0.6 | 0.4 | AV | 1 | KX619199 | KX619373 |
| 265-1B | | 30 | TZ-8153 | Santa Maria | Santa Barbara | CA | 11 | NPR2H | 0.8 | 0.4 | AV | 1 | KX619200 | KX619374 |
| 266-1 | | 30 | Sonora | Santa Maria | Santa Barbara | CA | 11 | 2 | 1.9 | 0.5 | WV | 1 | KX619201 | KX619375 |
| 267-1A | | 30 | TU52-70 | Santa Maria | Santa Barbara | CA | 11 | NP | 0 | 0 | AV | 10 | KX619202 | KX619376 |
| 267-1B | | 30 | TU-52-70R | Santa Maria | Santa Barbara | CA | 11 | 2 | 1.9 | 0.5 | WV | 1 | KX619203 | KX619377 |
| 268-2 | | 31 | TU52-70R | Davis | Yolo | CA | 12 | 1 | 0.2 | 0.2 | AV | 17 | KX619204 | KX619378 |
| 269 | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | 2 | 3.8 | 0.2 | HV | 1 | KX619205 | KX619379 |
| 270-A | | 40 | Sonora | Berlin | Green Lake | WI | 12 | NPR1H | 0 | 0 | AV | 18 | KX619206 | KX619380 |
| 270-B | | 40 | Sonora | Berlin | Green Lake | WI | 12 | NP | 0.2 | 0.2 | AV | 19 | KX619207 | KX619381 |
| 271-2A | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | 2 | 3.9 | 0.1 | HV | 1 | KX619208 | KX619382 |
| 271-3A | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | 2 | 3.8 | 0.2 | HV | 1 | KX619209 | KX619383 |
| 272-2A | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | 2 | 3 | 0.77 | MV | 1 | KX619210 | KX619384 |
| 272-2B | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | NPR1H | 0 | 0 | AV | 18 | KX619211 | KX619385 |
| 272-5A | | 40 | Green Bay | Berlin | Green Lake | WI | 12 | 2 | 4 | 0 | HV | 1 | KX619212 | KX619386 |
| 273-1A | 273-1-PA | 41 | Sabroso | Camarillo | Ventura | CA | 13 | 4 | 5 | 0 | HV | 23 | KX619213 | KX619387 |
| 273-1B | 273-1-1 | 41 | Sabroso | Camarillo | Ventura | CA | 13 | NP | 0 | 0 | AV | 20 | KX619214 | KX619388 |
| 273-1C | 273-1-2 | 41 | Sabroso | Camarillo | Ventura | CA | 13 | 4 | 4.6 | 0.2 | HV | 23 | KX619215 | KX619389 |
| 273-2A | 273-2-M1 | 41 | Sabroso | Camarillo | Ventura | CA | 13 | NP | 0 | 0 | AV | 10 | KX619216 | KX619390 |
| 273-2B | 273-2-M2 | 41 | Sabroso | Camarillo | Ventura | CA | 13 | NP | 0.4 | 0.22 | AV | 21 | KX619217 | KX619391 |
| 274.AC | | 41 | T6 | Camarillo | Ventura | CA | 13 | 4 | 4.8 | 0.1 | HV | 23 | KX619220 | KX619394 |
| 274-2 | | 41 | T6 | Camarillo | Ventura | CA | 13 | NP | 0.4 | 0.4 | AV | 7 | KX619218 | KX619392 |
| 274-3A | 274-3-M2 | 41 | T6 | Camarillo | Ventura | CA | 13 | NP | 0 | 0 | AV | 22 | KX619219 | KX619393 |

| Sample ID | Alternate names | Field ID | Celery cultivar (., not known) | City | County (or Canadian province) | State or Canada | Year collected | Foa Race, Non-Pathogenic (NP), or Non-pathogenic but in either the Foa race 2 (NPR2H) or Foa race 1 (NPR1H) haplotypes | Pathogenicity & virulence rating on Tall Utah 52-70R Improved | | | DNA Sequence | | |
|-----------|-----------------|----------|--------------------------------|-----------|-------------------------------|-----------------|----------------|--|---|-----------------------|--|----------------------|-----------------------|----------------------|
| | | | | | | | | | Mean disease rating: 0, asymptomatic to 5, dead | SEM of disease rating | Virulence class: AV, avirulent; WV, weakly; MV, Moderately; or HV, highly virulent | TEF1 + IGS haplotype | NCBI TEF1 accession # | NCBI IGS accession # |
| 283-1.2 | | 42 | Command | Oxnard | Ventura | CA | 13 | 4 | 3.4 | 0.2 | HV | 23 | KX619221 | KX619395 |
| 283-4.1 | | 42 | Command | Oxnard | Ventura | CA | 13 | 4 | 3.7 | 0.2 | HV | 23 | KX619222 | KX619396 |
| 284-1 | | 43 | Mission | Oxnard | Ventura | CA | 13 | 4 | 3.9 | 0.2 | HV | 23 | KX619223 | KX619397 |
| 284-5.1 | | 43 | Mission | Oxnard | Ventura | CA | 13 | 4 | 3.3 | 0.3 | HV | 23 | KX619224 | KX619398 |
| 291 | | 41 | TU52-70R | Camarillo | Ventura | CA | 13 | 4 | 3.9 | 0.2 | HV | 23 | KX619225 | KX619399 |
| 292-B | | 41 | Challenger | Camarillo | Ventura | CA | 13 | 4 | 3.8 | 0.3 | HV | 23 | KX619226 | KX619400 |
| 294-B | | 41 | Challenger | Camarillo | Ventura | CA | 13 | 4 | 3.4 | 0.3 | HV | 23 | KX619227 | KX619401 |
| 295 | | 41 | Challenger | Camarillo | Ventura | CA | 13 | NP | 0.1 | 0.1 | AV | 24 | KX619228 | KX619402 |
| 296 | | 41 | Challenger | Camarillo | Ventura | CA | 13 | 4 | 3.8 | 0.3 | HV | 23 | KX619229 | KX619403 |
| FoaR3 | NRRL38 295 | . | . | . | . | CA? | Before '81 | 3 | 1.7 | 0.3 | WV | 23 | FJ985371 | FJ985604.1 |

Cell: A3

Comment: Multiple isolates from the same plant have the same digits but differ by the terminal letter.

Cell: D3

Comment: TU52-70R, Tall Utah 52-75R Improved; TU52-75, Tall Utah 52-75

Cell: C173

Comment: assays done in the greenhouse with soil from field 41

Cell: C174

Comment: assay done in the greenhouse with soil from field 41

Cell: C175

Comment: assays done in the greenhouse with soil from field 41

Cell: C176

Comment:
assays done in the greenhouse with soil from field 41

Cell: C177

Comment: assays done in the greenhouse with soil from field 41