

Table S1: Overview of strains used in the study (Lang et al., Whole genome-based public health surveillance of less common STEC serovars and untypable strains identifies four novel O genotypes).

Abbreviations of phenotypic resistances: ampicillin (AMP), ciprofloxacin (CIP), chloramphenicol (CMP), cefoxitin (COX), cefotiam (CTM), cefotaxime (CTX), gentamicin (GEN), kanamycin (KAN), mezlocillin (MEZ), mezlocillin/sulbactam (MSU), nalidixic acid (NAL), oxytetracycline (OTE), streptomycin (STR), sulfamethoxazole/trimethoprim (SXT)

The sequences were uploaded to the European Nucleotide Archive under the study Acc. No. PRJEB32361.

| RKI No. | Phenotypic O group | Phenotypic H type | WGS derived O group | WGS derived H type | MILST | Accession No. | PCR-based stx1 | WGS-derived stx1 | WGS-derived stx1 subtype | PCR-based stx2 | WGS-derived stx2 | WGS-derived stx2 subtype | PCR-based eaeA | WGS-derived eaeA | Phenotypic resistance profile |
|------------|--------------------|-------------------|---------------------|--------------------|-------|---------------------------|----------------|------------------|--------------------------|----------------|------------------|--------------------------|----------------|------------------|--|
| 15-02245 | 117 | 7 | 117 | 7 | 5292 | ERS3396047 (SAMEA5591832) | + | + | stx1a | - | - | - | - | - | AMP; MEZ; OTE; SXT; STR; NAL; |
| 15-02364 | 178 | 7 | 153/178 | 7 | 278 | ERS3396048 (SAMEA5591833) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 15-02506 | 79 | 14 | 79 | 14 | 1249 | ERS3396049 (SAMEA5591834) | - | - | - | + | + | stx2b | - | - | susceptible |
| 15-02583 | 183 | 18 | 183 | 18 | 657 | ERS3396050 (SAMEA5591835) | + | + | stx1a | - | - | - | - | - | susceptible |
| 15-02585 | 136 | 16 | 136 | 16 | 329 | ERS3396051 (SAMEA5591836) | + | + | stx1a | - | - | - | - | - | susceptible |
| 15-02590 | nt | 2 | 80 | 2 | 301 | ERS3396052 (SAMEA5591837) | - | - | - | + | + | stx2a | + | + | AMP; CMP; KAN; MEZ; OTE; SXT; STR; NAL; |
| 15-02594 | 154 | 31 | 154 | 31 | 1892 | ERS3396053 (SAMEA5591838) | + | + | stx1d | - | - | - | - | - | susceptible |
| 15-02596 | 55 | 12 | 55 | 12 | 101 | ERS3396054 (SAMEA5591839) | + | + | stx1a | - | - | - | - | - | OTE; |
| 15-02618 | 45 | 2 | 45 | 2 | 301 | ERS3396055 (SAMEA5591840) | - | - | - | + | + | stx2a | + | + | AMP; CMP; KAN; MEZ; OTE; STR; NAL; |
| 15-03173 | 55 | 12 | 55 | 12 | 101 | ERS3396056 (SAMEA5591841) | + | + | stx1a | - | - | - | - | - | AMP; CMP; MEZ; SXT; STR; |
| 15-03191 | nt | 2 | 80 | 2 | 301 | ERS3396057 (SAMEA5591842) | - | - | - | + | + | stx2a | + | + | AMP; CMP; CTM; CTX; GEN; KAN; MEZ; MSU; SXT; STR; NAL; |
| 15-03416 | nt | 2 | 80 | 2 | 301 | ERS3396058 (SAMEA5591843) | - | - | - | + | + | stx2a | + | + | AMP; CMP; GEN; KAN; MEZ; OTE; SXT; STR; NAL; |
| 15-03726 | 55 | 12 | 55 | 12 | 101 | ERS3396059 (SAMEA5591844) | + | + | stx1a | - | - | - | - | - | AMP; CTM; CTX; GEN; MEZ; MSU; STR; |
| 15-03820 | nt | 15 | 23 | 15 | 70 | ERS3396060 (SAMEA5591845) | - | - | - | + | + | stx2a | - | - | AMP; OTE; |
| 15-03886 | nt | 30 | 27 | 30 | 753 | ERS3396061 (SAMEA5591846) | - | - | - | + | + | stx2b | - | - | susceptible |
| 15-04038 | 8 | nm | 8 | 19 | 201 | ERS3396062 (SAMEA5591847) | - | - | - | + | + | stx2e | - | - | AMP; CTM; CTX; MEZ; OTE; SXT; STR; |
| 15-04130 | nt | 30 | 27 | 30 | 753 | ERS3396063 (SAMEA5591848) | - | - | - | + | + | stx2b | - | - | susceptible |
| 15-04152 | 26 | 11 | 26 | 11 | 29 | ERS3396064 (SAMEA5591849) | - | - | - | + | + | stx2a | + | + | AMP; CTM; CTX; GEN; MEZ; MSU; |
| 15-04442 | nt | 8 | OgN1 | 8 | 26 | ERS3396065 (SAMEA5591850) | - | - | - | + | + | stx2b | - | - | susceptible |
| 15-04722 | nt | nm | 89 | 9 | 10 | ERS3396066 (SAMEA5591851) | - | - | - | + | + | stx2e | - | - | susceptible |
| 15-04750 | 8 | 28 | 8 | 28 | 162 | ERS3396067 (SAMEA5591852) | - | - | - | + | + | stx2e | - | - | OTE; STR; |
| 15-04756 | 17 | 18 | 17 | 18 | 69 | ERS3396068 (SAMEA5591853) | - | - | - | + | + | stx2a | - | - | susceptible |
| 15-04760 | nt | nt | 89 | 9 | 10 | ERS3396069 (SAMEA5591854) | - | - | - | + | + | stx2e | - | - | susceptible |
| 15-04762 | 110 | 31 | 110 | 31 | 812 | ERS3396070 (SAMEA5591855) | - | - | - | + | + | stx2b | - | - | susceptible |
| 15-04827-1 | nt | 30 | 27 | 30 | 753 | ERS3396071 (SAMEA5591856) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-00119 | 76 | 19 | 76 | 19 | 675 | ERS3396072 (SAMEA5591857) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00120 | 113 | 4 | 113 | 4 | 10 | ERS3396073 (SAMEA5591858) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00135 | 113 | 4 | 113 | 4 | 10 | ERS3396074 (SAMEA5591859) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00137 | 103 | 2 | 103 | 2 | 17 | ERS3396075 (SAMEA5591860) | + | + | stx1a | - | - | - | + | + | SXT; |
| 16-00141 | 113 | 4 | 113 | 4 | 10 | ERS3396076 (SAMEA5591861) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00143 | 76 | 19 | 76 | 19 | 675 | ERS3396077 (SAMEA5591862) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00144 | 128 | 2 | 128 | 2 | 25 | ERS3396078 (SAMEA5591863) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00259 | 145 | nm | 145 | 28 | 32 | ERS3396079 (SAMEA5591864) | - | - | - | + | + | stx2a | + | + | AMP; CTM; CTX; GEN; MEZ; STR; |
| 16-00328 | nt | 2 | 43 | 2 | 937 | ERS3396080 (SAMEA5591865) | + | + | stx1c | - | - | - | - | - | CMP; NAL; |
| 16-00550 | 183 | 18 | 183 | 18 | 657 | ERS3396081 (SAMEA5591866) | + | + | stx1a | + | + | stx2a | - | - | susceptible |
| 16-00581 | rauh | 2 | 128 | 2 | 25 | ERS3396082 (SAMEA5591867) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-00596 | 104 | 7 | 104 | 7 | 1817 | ERS3396083 (SAMEA5591868) | + | + | stx1c | - | - | - | - | - | AMP; CMP; |
| 16-00635 | 178 | 7 | 153/178 | 7 | 278 | ERS3396084 (SAMEA5591869) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-00636 | 130 | 11 | 130 | 11 | 297 | ERS3396085 (SAMEA5591870) | + | + | stx1a | + | + | stx2a | - | - | AMP; CMP; CTM; CTX; MEZ; MSU; |

| | | | | | | | | | | | | | | | |
|----------|------|----|----------|----|------|---------------------------|---|---|-------|---|---|-------|---|---|---|
| 16-00704 | nt | nm | 9 | 4 | 46 | ERS3396086 (SAMEA5591871) | - | - | - | + | + | stx2e | - | - | susceptible |
| 16-00707 | nt | 19 | 8 | 19 | 360 | ERS3396087 (SAMEA5591872) | - | - | - | + | + | stx2e | - | - | CMP; |
| 16-00712 | 23 | 31 | 23 | 31 | 101 | ERS3396088 (SAMEA5591873) | + | + | stx1a | - | - | - | - | - | AMP; KAN; MEZ; OTE; STR; |
| 16-00714 | 76 | 19 | 76 | 19 | 675 | ERS3396089 (SAMEA5591874) | + | + | stx1c | - | - | - | - | - | CMP; |
| 16-00717 | 82 | nm | 82 | 4 | 10 | ERS3396090 (SAMEA5591875) | - | - | - | + | + | stx2d | - | - | susceptible |
| 16-00718 | 128 | 2 | 128 | 2 | 25 | ERS3396091 (SAMEA5591876) | - | - | - | + | + | stx2b | - | - | AMP; CMP; MEZ; OTE; |
| 16-00910 | 182 | nm | 182 | 25 | 300 | ERS3396092 (SAMEA5591877) | + | + | stx1a | - | - | - | + | + | CMP; |
| 16-00980 | 63 | 6 | 63 | 6 | 583 | ERS3396093 (SAMEA5591878) | - | - | - | + | + | stx2f | + | + | susceptible |
| 16-01162 | nt | 21 | OX18 | 21 | 40 | ERS3396094 (SAMEA5591879) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-01173 | 183 | 18 | 183 | 18 | 657 | ERS3396095 (SAMEA5591880) | + | + | stx1a | - | - | - | - | - | susceptible |
| 16-01174 | nt | 49 | OgN-RK11 | 49 | ? | ERS3396096 (SAMEA5591881) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-01175 | nt | 30 | 27 | 30 | 753 | ERS3396097 (SAMEA5591882) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-01215 | 8 | 19 | 8 | 19 | 88 | ERS3396098 (SAMEA5591883) | - | - | - | + | + | stx2e | - | - | CMP; |
| 16-01258 | nt | 32 | OgN12 | 32 | 10 | ERS3396099 (SAMEA5591884) | + | + | stx1a | - | - | - | - | - | NAL; |
| 16-01365 | 8 | 19 | 8 | 19 | 201 | ERS3396100 (SAMEA5591885) | - | - | - | + | + | stx2e | - | - | susceptible |
| 16-01492 | 181 | nm | 181 | 16 | 6274 | ERS3396101 (SAMEA5591886) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-01499 | 181 | 49 | 181 | 49 | 173 | ERS3396102 (SAMEA5591887) | + | + | stx1a | + | + | stx2c | - | - | susceptible |
| 16-01506 | 91 | 19 | 91 | 14 | 33 | ERS3396103 (SAMEA5591888) | + | + | stx1a | - | - | - | - | - | susceptible |
| 16-01573 | nt | 8 | OgN1 | 8 | 26 | ERS3396104 (SAMEA5591889) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-01717 | 57 | 8 | OgN1 | 8 | 26 | ERS3396105 (SAMEA5591890) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-01791 | 43 | 2 | 43 | 2 | 937 | ERS3396106 (SAMEA5591891) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-01865 | 57 | 6 | 2 | 6 | 141 | ERS3396107 (SAMEA5591892) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-01921 | nt | nm | 100 | 30 | 993 | ERS3396108 (SAMEA5591893) | - | - | - | + | + | stx2e | - | - | AMP; MEZ; OTE; SXT; STR; |
| 16-02258 | nt | nm | OgN-RK12 | 16 | 336 | ERS3396109 (SAMEA5591894) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-02291 | nt | nm | 100 | 20 | 2514 | ERS3396110 (SAMEA5591895) | - | - | - | + | + | stx2e | - | - | susceptible |
| 16-02352 | 127 | nt | 127 | 40 | 10 | ERS3396111 (SAMEA5591896) | + | + | stx1a | - | - | - | + | + | AMP; CMP; CTM; CTX; GEN; KAN; MEZ; MSU; OTE; SXT; STR; NAL; |
| 16-02355 | 84 | nm | 84 | 2 | 306 | ERS3396112 (SAMEA5591897) | + | + | stx1a | - | - | - | + | + | susceptible |
| 16-02409 | 157 | nm | 157 | 7 | 11 | ERS3396113 (SAMEA5591898) | - | - | - | + | + | stx2a | + | + | susceptible |
| 16-02727 | nt | nm | 100 | 20 | 2514 | ERS3396114 (SAMEA5591899) | - | - | - | + | + | stx2e | - | - | susceptible |
| 16-02921 | nt | nt | 8 | 9 | 767 | ERS3396115 (SAMEA5591900) | - | - | - | + | + | stx2e | - | - | AMP; CMP; MEZ; OTE; SXT; |
| 16-02972 | 132 | 34 | 132 | 34 | 582 | ERS3396116 (SAMEA5591901) | - | - | - | + | + | stx2f | + | + | susceptible |
| 16-02991 | 110 | 31 | 110 | 31 | 812 | ERS3396117 (SAMEA5591902) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-03025 | 80 | 2 | 80 | 2 | 301 | ERS3396118 (SAMEA5591903) | - | - | - | + | + | stx2a | + | + | AMP; CMP; KAN; MEZ; MSU; OTE; SXT; STR; NAL; |
| 16-03031 | nt | nm | 100 | 20 | 2514 | ERS3396119 (SAMEA5591904) | - | - | - | + | + | stx2e | - | - | susceptible |
| 16-03103 | rauh | 7 | 153/178 | 7 | 278 | ERS3396120 (SAMEA5591905) | + | + | stx1c | + | + | stx2b | - | - | AMP; |
| 16-03160 | 132 | 34 | 132 | 34 | 582 | ERS3396121 (SAMEA5591906) | - | - | - | + | + | stx2f | + | + | susceptible |
| 16-03326 | 80 | 2 | 80 | 2 | 301 | ERS3396122 (SAMEA5591907) | - | - | - | + | + | stx2a | + | + | AMP; CMP; GEN; KAN; OTE; SXT; STR; NAL; |
| 16-03329 | nt | 45 | 12 | 45 | ? | ERS3396123 (SAMEA5591908) | + | + | stx1d | - | - | - | - | - | AMP; |
| 16-03344 | 80 | 2 | 80 | 2 | 301 | ERS3396124 (SAMEA5591909) | - | - | - | + | + | stx2a | + | + | AMP; CMP; CTM; CTX; GEN; KAN; MEZ; MSU; OTE; SXT; STR; NAL; |
| 16-03345 | 8 | 9 | 8 | 9 | 23 | ERS3396125 (SAMEA5591910) | - | - | - | + | + | stx2e | - | - | AMP; CMP; |
| 16-03404 | 145 | nm | 145 | 28 | 32 | ERS3396126 (SAMEA5591911) | - | - | - | + | + | stx2a | + | + | susceptible |
| 16-03481 | 43 | 2 | 43 | 2 | 937 | ERS3396127 (SAMEA5591912) | + | + | stx1c | - | - | - | - | - | AMP; NAL; |
| 16-03485 | nt | nm | 8 | 19 | 88 | ERS3396128 (SAMEA5591913) | - | - | - | + | + | stx2e | - | - | AMP; MEZ; SXT; STR; |
| 16-03565 | 26 | 11 | 26 | 11 | 21 | ERS3396129 (SAMEA5591914) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 16-03669 | nt | nm | 27 | 30 | 753 | ERS3396130 (SAMEA5591915) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-03680 | 8 | 28 | 8 | 28 | 4496 | ERS3396131 (SAMEA5591916) | - | - | - | + | + | stx2a | - | - | susceptible |
| 16-03686 | 55 | 7 | 55 | 9 | 301 | ERS3396132 (SAMEA5591917) | - | - | - | + | + | stx2d | + | + | AMP; CMP; GEN; KAN; MEZ; OTE; SXT; STR; NAL; |
| 16-03690 | 80 | 2 | 80 | 2 | 301 | ERS3396133 (SAMEA5591918) | - | - | - | + | + | stx2a | + | + | CMP; GEN; KAN; OTE; SXT; STR; NAL; |
| 16-03709 | 157 | 7 | 157 | 7 | 11 | ERS3396134 (SAMEA5591919) | - | - | - | + | + | stx2a | + | + | susceptible |
| 16-03758 | 145 | nm | 145 | 28 | 32 | ERS3396135 (SAMEA5591920) | - | - | - | + | + | stx2a | + | + | susceptible |
| 16-03919 | 157 | 7 | 157 | 7 | 11 | ERS3396136 (SAMEA5591921) | - | - | - | + | + | stx2a | + | + | susceptible |

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|------------|------|----|----------|-------|------|---------------------------|---|---|-------|---|---|-------|---|---|---|
| 16-03986 | 182 | 25 | 182 | 25 | 300 | ERS3396137 (SAMEA5591922) | + | + | stx1a | - | - | - | + | + | susceptible |
| 16-04050 | 125 | 6 | 125 | 6 | 583 | ERS3396138 (SAMEA5591923) | - | - | - | + | + | stx2f | + | + | susceptible |
| 16-04102 | 43 | 2 | 43 | 2 | 937 | ERS3396139 (SAMEA5591924) | + | + | stx1c | + | + | stx2b | - | - | NAL; |
| 16-04112 | 106 | 18 | 106 | 18 | 663 | ERS3396140 (SAMEA5591925) | - | - | - | + | + | stx2d | - | - | susceptible |
| 16-04141 | nt | 6 | 2 | 6 | 141 | ERS3396141 (SAMEA5591926) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-04147 | rauh | nm | 153/178 | 7 | 4975 | ERS3396142 (SAMEA5591927) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-04148 | 169 | 21 | 81 | 21 | 737 | ERS3396143 (SAMEA5591928) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 16-04178 | 54 | 21 | OgN-RKI3 | 21 | 155 | ERS3396144 (SAMEA5591929) | - | - | - | + | + | stx2a | - | - | OTE; STR; |
| 16-04225 | 38 | 26 | 38 | 26 | 10 | ERS3396145 (SAMEA5591930) | + | + | stx1c | + | + | stx2b | - | - | OTE; STR; |
| 16-04226 | 38 | 26 | 38 | 26 | 10 | ERS3396146 (SAMEA5591931) | + | + | stx1c | + | + | stx2b | - | - | OTE; STR; |
| 16-04233 | 166 | 28 | 166 | 28 | 1819 | ERS3396147 (SAMEA5591932) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-04280 | 2 | 6 | 2 | 6 | 141 | ERS3396148 (SAMEA5591933) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-04388 | 109 | 21 | 109 | 21 | 40 | ERS3396149 (SAMEA5591934) | - | - | - | + | + | stx2f | + | + | susceptible |
| 16-04414 | rauh | nm | 166 | 28 | 1819 | ERS3396150 (SAMEA5591935) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-04417 | 183 | 18 | 183 | 18 | 657 | ERS3396151 (SAMEA5591936) | + | + | stx1a | + | + | stx2d | - | - | susceptible |
| 16-04503 | 80 | 2 | 80 | 2 | 301 | ERS3396152 (SAMEA5591937) | - | - | - | + | + | stx2d | + | + | AMP; CMP; KAN; MEZ; OTE; SXT; STR; NAL; |
| 16-04698 | nt | 2 | 112 | 2 | 388 | ERS3396153 (SAMEA5591938) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-04798 | nt | 40 | 168 | 8, 40 | 718 | ERS3396154 (SAMEA5591939) | - | - | - | + | + | stx2a | - | - | OTE; STR; |
| 16-04840 | nt | 40 | OgN1 | 8, 40 | 26 | ERS3396155 (SAMEA5591940) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-04846 | nt | nt | OgN-RKI1 | 20 | 6060 | ERS3396156 (SAMEA5591941) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-04847 | 80 | 2 | 80 | 2 | 301 | ERS3396157 (SAMEA5591942) | - | - | - | + | + | stx2a | + | + | AMP; CMP; KAN; MEZ; OTE; SXT; STR; NAL; |
| 16-04865 | nt | nt | 27 | 30 | 753 | ERS3396158 (SAMEA5591943) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-04944 | rauh | nm | 3 | 12 | 329 | ERS3396159 (SAMEA5591944) | + | + | stx1a | - | - | - | - | - | susceptible |
| 16-04982 | 165 | nm | 165 | 25 | 119 | ERS3396160 (SAMEA5591945) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 16-05089 | rauh | 2 | 43 | 2 | 937 | ERS3396161 (SAMEA5591946) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-05108 | nt | 31 | 110 | 31 | 812 | ERS3396162 (SAMEA5591947) | - | - | - | + | + | stx2b | - | - | susceptible |
| 16-05138 | nt | nm | 183 | 18 | 657 | ERS3396163 (SAMEA5591948) | + | + | stx1a | + | + | stx2a | - | - | susceptible |
| 16-05184 | nt | 20 | OgN10 | 20 | 691 | ERS3396164 (SAMEA5591949) | + | + | stx1a | - | - | - | - | - | susceptible |
| 16-05299 | nt | nm | 86 | 51 | 155 | ERS3396165 (SAMEA5591950) | + | + | stx1a | - | - | - | - | - | AMP; CIP; CMP; CTM; CTX; MEZ; MSU; OTE; STR; NAL; |
| 16-05329 | nt | 2 | 112 | 2 | 388 | ERS3396166 (SAMEA5591951) | + | + | stx1c | - | - | - | - | - | AMP; |
| 16-05332 | rauh | 16 | 181 | 16 | 6274 | ERS3396167 (SAMEA5591952) | + | + | stx1c | - | - | - | - | - | susceptible |
| 16-05416 | nt | nm | 100 | 20 | 2514 | ERS3396168 (SAMEA5591953) | - | - | - | + | + | stx2e | - | - | AMP; MEZ; OTE; STR; |
| 17-00140-1 | 157 | nm | 157 | 7 | 11 | ERS3396169 (SAMEA5591954) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-00242 | 36 | 19 | 36 | 19 | 10 | ERS3396170 (SAMEA5591955) | - | - | - | + | + | stx2e | - | - | susceptible |
| 17-00261 | 157 | 7 | 157 | 7 | 11 | ERS3396171 (SAMEA5591956) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 17-00285 | 26 | 11 | 26 | 11 | 29 | ERS3396172 (SAMEA5591957) | - | - | - | + | + | stx2a | + | + | AMP; MEZ; STR; |
| 17-00402 | 36 | 14 | 36 | 14 | 1176 | ERS3396173 (SAMEA5591958) | - | - | - | + | + | stx2e | - | - | susceptible |
| 17-00411 | 36 | nm | 36 | 14 | 1176 | ERS3396174 (SAMEA5591959) | - | - | - | + | + | stx2g | - | - | susceptible |
| 17-00416 | rauh | nm | 181 | 16 | 6274 | ERS3396175 (SAMEA5591960) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-00475 | 156 | 25 | 156 | 25 | 300 | ERS3396176 (SAMEA5591961) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-00641 | nt | 25 | 177 | 25 | 659 | ERS3396177 (SAMEA5591962) | - | - | - | + | + | stx2c | + | + | OTE; STR; |
| 17-00703 | 81 | 21 | 81 | 21 | 737 | ERS3396178 (SAMEA5591963) | + | + | stx1c | - | - | - | - | - | AMP; MEZ; STR; |
| 17-00772 | 157 | nm | 157 | 7 | 11 | ERS3396179 (SAMEA5591964) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-00778 | 91 | 14 | 91 | 14 | 33 | ERS3396180 (SAMEA5591965) | + | + | stx1a | + | + | stx2b | - | - | CMP; |
| 17-00844 | 186 | 10 | 123/186 | 10 | 3695 | ERS3396181 (SAMEA5591966) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-00847 | 104 | 21 | 104 | 21 | 672 | ERS3396182 (SAMEA5591967) | + | + | stx1a | + | + | stx2d | - | - | susceptible |
| 17-00856 | 157 | nm | 157 | 7 | 11 | ERS3396183 (SAMEA5591968) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 17-00882 | 157 | nm | 157 | 7 | 11 | ERS3396184 (SAMEA5591969) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-00884 | 157 | 7 | 157 | 7 | 11 | ERS3396185 (SAMEA5591970) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-00946 | 103 | 2 | 103 | 2 | 17 | ERS3396186 (SAMEA5591971) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-00991 | 103 | 2 | 103 | 2 | 17 | ERS3396187 (SAMEA5591972) | + | + | stx1a | - | - | - | + | + | susceptible |

| | | | | | | | | | | | | | | | |
|----------|------|----|-------|----|------|---------------------------|---|---|-------|---|---|-------|---|---|---|
| 17-00995 | 36 | 14 | 36 | 14 | 1176 | ERS3396188 (SAMEA5591973) | - | - | - | + | + | stx2g | - | - | susceptible |
| 17-00997 | 36 | 19 | 36 | 19 | 10 | ERS3396189 (SAMEA5591974) | - | - | - | + | + | stx2g | - | - | susceptible |
| 17-00998 | 36 | 14 | 36 | 14 | 1176 | ERS3396190 (SAMEA5591975) | - | - | - | + | + | stx2g | - | - | susceptible |
| 17-01000 | 36 | 14 | 36 | 14 | 1176 | ERS3396191 (SAMEA5591976) | - | - | - | + | + | stx2g | - | - | CMP; |
| 17-01045 | 157 | nm | 157 | 7 | 11 | ERS3396192 (SAMEA5591977) | + | + | stx1a | + | + | stx2c | + | + | AMP; MEZ; STR; |
| 17-01061 | 26 | 11 | 26 | 11 | 21 | ERS3396193 (SAMEA5591978) | - | - | - | + | + | stx2a | + | + | AMP; MEZ; |
| 17-01142 | 157 | nm | 157 | 7 | 11 | ERS3396194 (SAMEA5591979) | + | + | stx1a | + | + | stx2c | + | + | STR; |
| 17-01185 | 177 | nm | 177 | 25 | 659 | ERS3396195 (SAMEA5591980) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-01359 | 157 | 7 | 157 | 7 | 11 | ERS3396196 (SAMEA5591981) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-01749 | 103 | 2 | 103 | 2 | 17 | ERS3396197 (SAMEA5591982) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-01774 | 104 | nm | 104 | 21 | 672 | ERS3396198 (SAMEA5591983) | + | + | stx1a | + | + | stx2a | - | - | susceptible |
| 17-01864 | 157 | 7 | 157 | 7 | 11 | ERS3396199 (SAMEA5591984) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-01972 | 157 | nm | 157 | 7 | 587 | ERS3396200 (SAMEA5591985) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-01975 | 145 | 28 | 145 | 28 | 32 | ERS3396201 (SAMEA5591986) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-02088 | 157 | nm | 157 | 7 | 1804 | ERS3396202 (SAMEA5591987) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-02233 | 157 | 7 | 157 | 7 | 11 | ERS3396203 (SAMEA5591988) | + | + | stx1a | + | + | stx2a | + | + | CMP; |
| 17-02566 | 157 | 7 | 157 | 7 | 11 | ERS3396204 (SAMEA5591989) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-02598 | 157 | nm | 157 | 7 | 11 | ERS3396205 (SAMEA5591990) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-02628 | 157 | 7 | 157 | 7 | 11 | ERS3396206 (SAMEA5591991) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-02676 | 157 | 7 | 157 | 7 | 11 | ERS3396207 (SAMEA5591992) | + | + | stx1a | + | + | stx2c | + | + | AMP; CMP; GEN; MEZ; OTE; SXT; STR; NAL; |
| 17-02726 | 157 | 7 | 157 | 7 | 11 | ERS3396208 (SAMEA5591993) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-02778 | 157 | 7 | 157 | 7 | 11 | ERS3396209 (SAMEA5591994) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-02862 | 157 | 7 | 157 | 7 | 11 | ERS3396210 (SAMEA5591995) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-02938 | 157 | 7 | 157 | 7 | 11 | ERS3396211 (SAMEA5591996) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-03030 | nt | 21 | 174 | 21 | 677 | ERS3396212 (SAMEA5591997) | - | - | - | + | + | stx2d | - | - | susceptible |
| 17-03136 | 55 | 7 | 55 | 7 | 335 | ERS3396213 (SAMEA5591998) | - | - | - | + | + | stx2a | + | + | SXT; STR; |
| 17-03548 | 103 | 2 | 103 | 2 | 17 | ERS3396214 (SAMEA5591999) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-03780 | 157 | 7 | 157 | 7 | 11 | ERS3396215 (SAMEA5592000) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-03836 | 157 | 7 | 157 | 7 | 11 | ERS3396216 (SAMEA5592001) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-03846 | 157 | 7 | 157 | 7 | 11 | ERS3396217 (SAMEA5592002) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 17-03961 | 157 | 7 | 157 | 7 | 11 | ERS3396218 (SAMEA5592003) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-03963 | 157 | 7 | 157 | 7 | 11 | ERS3396219 (SAMEA5592004) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 17-03964 | 157 | 7 | 157 | 7 | 11 | ERS3396220 (SAMEA5592005) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-04023 | 157 | 7 | 157 | 7 | 11 | ERS3396221 (SAMEA5592006) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-04111 | 157 | 7 | 157 | 7 | 11 | ERS3396222 (SAMEA5592007) | + | + | stx1a | - | + | stx2c | + | + | susceptible |
| 17-04143 | 157 | 7 | 157 | 7 | 11 | ERS3396223 (SAMEA5592008) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-04868 | 157 | 7 | 157 | 7 | 11 | ERS3396224 (SAMEA5592009) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-04959 | 157 | 7 | 157 | 7 | 11 | ERS3396225 (SAMEA5592010) | + | + | stx1a | + | + | stx2a | + | + | susceptible |
| 17-05089 | 157 | 7 | 157 | 7 | 11 | ERS3396226 (SAMEA5592011) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-05090 | 103 | 11 | 103 | 11 | 723 | ERS3396227 (SAMEA5592012) | + | + | stx1a | - | - | - | + | + | AMP; CTM; CTX; MEZ; MSU; OTE; SXT; STR; |
| 17-05135 | nt | 2 | OX18 | 2 | 4017 | ERS3396228 (SAMEA5592013) | + | + | stx1a | + | + | stx2a | - | - | susceptible |
| 17-05203 | rauh | 16 | 87 | 16 | 2101 | ERS3396229 (SAMEA5592014) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-05261 | nt | nm | 141 | 19 | 8237 | ERS3396230 (SAMEA5592015) | - | - | - | + | + | stx2e | - | - | susceptible |
| 17-05292 | nt | 36 | 7 | 31 | 446 | ERS3396231 (SAMEA5592016) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-05333 | 181 | 16 | 181 | 16 | 6274 | ERS3396232 (SAMEA5592017) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-05371 | 43 | 2 | 43 | 2 | 937 | ERS3396233 (SAMEA5592018) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-05374 | 157 | 7 | 157 | 7 | 11 | ERS3396234 (SAMEA5592019) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-05375 | nt | 49 | OgN31 | 49 | 2520 | ERS3396235 (SAMEA5592020) | - | - | - | + | + | stx2a | - | - | susceptible |
| 17-05381 | 113 | 21 | 113 | 21 | 223 | ERS3396236 (SAMEA5592021) | - | - | - | + | + | stx2a | - | - | susceptible |
| 17-05419 | 157 | 7 | 157 | 7 | 11 | ERS3396237 (SAMEA5592022) | + | + | stx1a | + | + | stx2c | + | + | susceptible |
| 17-05433 | 157 | 7 | 157 | 7 | 11 | ERS3396238 (SAMEA5592023) | + | + | stx1a | + | + | stx2c | + | + | susceptible |

| | | | | | | | | | | | | | | | |
|----------|------|----|----------|----|------|---------------------------|---|---|-------|---|---|-------|---|---|--|
| 17-05493 | nt | 30 | 27 | 30 | 753 | ERS3396239 (SAMEA5592024) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-05504 | nt | 52 | 187 | 52 | 642 | ERS3396240 (SAMEA5592025) | + | + | stx1c | - | - | - | - | - | AMP; COX; |
| 17-05507 | 109 | 25 | 182 | 25 | 300 | ERS3396241 (SAMEA5592026) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-05609 | nt | nm | 100 | 30 | 993 | ERS3396242 (SAMEA5592027) | - | - | - | + | + | stx2e | - | - | OTE; |
| 17-05662 | 63 | 6 | 63 | 6 | 583 | ERS3396243 (SAMEA5592028) | - | - | - | + | + | stx2f | + | + | susceptible |
| 17-05663 | nt | 30 | 27 | 30 | 753 | ERS3396244 (SAMEA5592029) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-05667 | nt | 2 | 80 | 2 | 301 | ERS3396245 (SAMEA5592030) | - | - | - | + | + | stx2a | + | + | AMP; CMP; GEN; KAN; MEZ; OTE; SXT; STR; NAL; |
| 17-05676 | nt | 29 | OgN-RK14 | 29 | 515 | ERS3396246 (SAMEA5592031) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-05752 | 157 | 7 | 157 | 7 | 11 | ERS3396247 (SAMEA5592032) | - | - | - | + | + | stx2c | + | + | susceptible |
| 17-05760 | 98 | nm | 98 | 21 | 306 | ERS3396248 (SAMEA5592033) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-05763 | 157 | 7 | 157 | 7 | 11 | ERS3396249 (SAMEA5592034) | - | - | - | + | + | stx2a | + | + | susceptible |
| 17-05810 | nt | 21 | OX18 | 21 | 40 | ERS3396250 (SAMEA5592035) | + | + | stx1c | - | - | - | - | - | CMP; NAL; |
| 17-05813 | 110 | 31 | 110 | 31 | 812 | ERS3396251 (SAMEA5592036) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-05826 | nt | 7 | 117 | 7 | 504 | ERS3396252 (SAMEA5592037) | + | + | stx1a | - | - | - | - | - | AMP; |
| 17-05857 | 63 | 6 | 63 | 6 | 583 | ERS3396253 (SAMEA5592038) | - | - | - | + | + | stx2f | + | + | susceptible |
| 17-05859 | rauh | 7 | 153/178 | 7 | 278 | ERS3396254 (SAMEA5592039) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-05861 | nt | 30 | 100 | 30 | 993 | ERS3396255 (SAMEA5592040) | - | - | - | + | + | stx2e | - | - | OTE; |
| 17-05863 | nt | 18 | 15 | 18 | 69 | ERS3396256 (SAMEA5592041) | + | + | stx1a | - | - | - | - | - | STR; |
| 17-05864 | rauh | 7 | 153/178 | 7 | 4975 | ERS3396257 (SAMEA5592042) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-05865 | nt | 8 | 179 | 8 | 297 | ERS3396258 (SAMEA5592043) | - | - | - | + | + | stx2a | - | - | susceptible |
| 17-05936 | nt | 16 | OgN-RK12 | 16 | 336 | ERS3396259 (SAMEA5592044) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06065 | 76 | 19 | 76 | 19 | 675 | ERS3396260 (SAMEA5592045) | + | + | stx1c | - | + | stx2b | - | - | CMP; |
| 17-06072 | nt | 4 | 78 | 4 | 3101 | ERS3396261 (SAMEA5592046) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06075 | nt | 8 | 174 | 8 | 13 | ERS3396262 (SAMEA5592047) | + | + | stx1c | + | + | stx2b | - | - | susceptible |
| 17-06108 | nt | 16 | OgN13 | 16 | 295 | ERS3396263 (SAMEA5592048) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06200 | nt | 4 | 78 | 4 | 3101 | ERS3396264 (SAMEA5592049) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06201 | nt | 30 | 27 | 30 | 753 | ERS3396265 (SAMEA5592050) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-06322 | nt | 21 | 174 | 21 | 677 | ERS3396266 (SAMEA5592051) | - | - | - | + | + | stx2d | - | - | susceptible |
| 17-06327 | 63 | 6 | 63 | 6 | 583 | ERS3396267 (SAMEA5592052) | - | - | - | + | + | stx2f | + | + | susceptible |
| 17-06334 | 156 | 25 | 156 | 25 | 4942 | ERS3396268 (SAMEA5592053) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-06335 | 111 | 8 | 111 | 8 | 16 | ERS3396269 (SAMEA5592054) | + | + | stx1a | + | + | stx2a | + | + | CMP; OTE; |
| 17-06351 | nt | 48 | OgN31 | 48 | 3519 | ERS3396270 (SAMEA5592055) | - | - | - | + | + | stx2a | - | - | susceptible |
| 17-06369 | 136 | nm | 136 | 20 | 398 | ERS3396271 (SAMEA5592056) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06460 | 7 | 4 | 7 | 4 | 93 | ERS3396272 (SAMEA5592057) | + | - | - | - | - | - | - | - | susceptible |
| 17-06523 | 43 | nt | 43 | 2 | 937 | ERS3396273 (SAMEA5592058) | + | + | stx1c | - | - | - | - | - | susceptible |
| 17-06526 | nt | 7 | 117 | 7 | 504 | ERS3396274 (SAMEA5592059) | + | + | stx1a | - | - | - | - | - | AMP; MEZ; OTE; SXT; STR; |
| 17-07220 | 8 | 14 | 8 | 14 | 136 | ERS3396275 (SAMEA5592060) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-07221 | 8 | 14 | 8 | 14 | 136 | ERS3396276 (SAMEA5592061) | - | - | - | + | + | stx2b | - | - | susceptible |
| 17-07255 | 103 | 2 | 103 | 2 | 17 | ERS3396277 (SAMEA5592062) | + | + | stx1a | - | - | - | + | + | susceptible |
| 17-07259 | 8 | 4 | 8 | 4 | ? | ERS3396278 (SAMEA5592063) | - | - | - | + | + | stx2e | - | - | susceptible |

Table S2: Reference sequences for O-AGCs downloaded from NCBI. (Lang et al., Whole genome-based public health surveillance of less common STEC serovars and untypable strains identifies four novel O genotypes)

| O-AGC/ virulence marker gene | GenBank No./ Accession No. |
|------------------------------|----------------------------|
| OgN1 | LC125927.1 |
| OgN8 | LC125928.1 |
| OgN9 | LC125929.1 |
| OgN10 | LC125930.1 |
| OgN12 | LC125931.1 |
| OgN31 | LC125932.1 |
| OgN2 | LC177546.1 |
| OgN3 | LC177547.1 |
| OgN4 | LC177548.1 |
| OgN5 | LC177549.1 |
| OgN13 | LC177550.1 |
| OgN14 | LC177551.1 |
| OgN15 | LC177552.1 |
| OgN16 | LC177553.1 |
| OgN17 | LC177554.1 |
| OX18 | KJ710507.1 |
| OX21 | KJ739596.2 |
| OX38 | KJ739599.3 |
| OX10 | KJ778792.1 |
| OX6 | KJ778794.1 |
| OX9 | KJ778795.1 |
| OX13 | KP710591.1 |
| OX25 | KP710594.1 |
| OX19 | KP868751.1 |
| OX28 | KT207929.1 |

Tab. S3: Homologues of the new O-AGCs found by NCBI nBLAST (Lang et al., Whole genome-based public health surveillance of less common STEC serovars and untypable strains identifies four novel O genotypes). n.d.=not defined.

| Homologues to new O-AGC OgN-RKI1 | | | | |
|---|-----------|------------------|-------------------------|-------------------|
| strain | Serotype | isolation source | nucleotide identity [%] | GenBank Accession |
| <i>S. boydii</i> BS984 | 19 | human feces | 98.27 | PUGO00000000.1 |
| <i>S. boydii</i> 83-578 | 19 | n.d. | 98.28 | CP026814.1 |
| STEC2841 | Ont:H20 | human feces | 97.93 | LOIQ01000034.1 |
| Homologues to new O-AGC OgN-RKI2 | | | | |
| strain | Serotype | isolation source | nucleotide identity [%] | GenBank Accession |
| <i>E. coli</i> MOD1-3827 | OXY24:H16 | cheese | 100 | NZ_NJRY01000017.1 |
| <i>E. coli</i> MOD1-3831 | OXY24:H17 | cheese | 100 | NZ_NJRW01000017.1 |
| <i>E. coli</i> UMEA 3176-1 | n.d. | n.d. | 99.99 | AWCA01000017.1 |
| <i>E. coli</i> MOD1-6444 | n.d. | deer | 99.96 | NZ_NOQO01000009.1 |

| <i>E. coli</i> MOD1-6465 | n.d. | pig serum | 99.97 | NZ_NNVR01000001.1 |
|---|----------|------------------|-------------------------|-------------------|
| <i>E. coli</i> 116 2DZ3 | n.d. | dog | 99.96 | MOJG01000001.1 |
| <i>E. coli</i> 495 BN4 | n.d. | fly | 99.96 | NZ_MOHI01000022.1 |
| <i>E. coli</i> B132 | n.d. | human feces | 99.98 | NZ_NRYW01000024.1 |
| <i>E. coli</i> P7a | O20:H- | n.d. | 99.98 | KJ778793.1 |
| <i>E. coli</i> MOD1-5481 | n.d. | water | 98.32 | NZ_NLOH01000004.1 |
| Homologues to new O-AGC OgN-RKI3 | | | | |
| strain | Serotype | isolation source | nucleotide identity [%] | GenBank Accession |
| <i>E. coli</i> 31-678 | n.d. | human urine | 99.98 | LENM01000002.1 |
| <i>E. coli</i> Lys36 c175 | n.d. | soil | 99.98 | PJRE01000168.1 |
| <i>E. coli</i> Lys45 c120 | n.d. | soil | 99.98 | PJRD01000116.1 |
| <i>E. coli</i> Lys53 c131 | n.d. | soil | 99.98 | PJRB01000125.1 |
| <i>E. coli</i> Lys24 c153 | n.d. | soil | 99.98 | PJRI01000151.1 |
| <i>E. coli</i> Lys28 c153 | n.d. | soil | 99.98 | PJRH01000152.1 |
| <i>E. coli</i> Lys34 c165 | n.d. | soil | 99.98 | PJRG01000163.1 |
| <i>E. coli</i> Lys35 c166 | n.d. | soil | 99.98 | PJRF01000150.1 |
| <i>E. coli</i> Lys52 c132 | n.d. | soil | 99.98 | PJRC01000131.1 |
| <i>E. coli</i> C019 | O59:H21 | human | 99.98 | NWBD01000002.1 |

| | | feces | | |
|--------------------------------------|----------|---------------------|----------------------------|----------------------|
| <i>E. coli</i> C322 | O59:H21 | human feces | 99.98 | NWAU01000002.1 |
| <i>E. coli</i> C323 | O59:H21 | human feces | 99.98 | NWAT01000002.1 |
| <i>E. coli</i> F426 | Ont:Hnt | human feces | 99.98 | NWAK01000017.1 |
| <i>E. coli</i> T168 | O59:H21 | human feces | 99.98 | NWAB01000006.1 |
| <i>E. coli</i> T297 | O59:H21 | human feces | 99.98 | NVZZ01000007.1 |
| Homologues new O-AGC OgN-RKI4 | | | | |
| strain | Serotype | isolation source | nucleotide identity [%] | GenBank Accession |
| <i>E. coli</i> N38833PS | n.d. | farm | 99.99 | JUBT01000041.1 |
| <i>E. coli</i> YH17162 | n.d. | chicken | 99.99 | PTMY01000002.1 |
| <i>E. coli</i> MOD1- 5029 | n.d. | beef | 99.97 | NLUJ01000004.1 |
| <i>E. coli</i> A185 | n.d. | human feces | 99.88 | NRZN01000085.1 |
| <i>E. coli</i> AVC113 | Ont:H21 | chicken | 99.87 | QOGQ01000002.1 |
| <i>E. coli</i> M856 | Ont:H6 | human feces | 99.15 | FBUQ01000014.1 |

| | | | | |
|----------------------------------|--------|----------------|-------|----------------|
| <i>E. coli</i> ERS085421SC | n.d. | human feces | 98.6 | CYDG01000036.1 |
| <i>E. coli</i> ERS085427SC | n.d. | human feces | 98.61 | CYDD01000037.1 |
| <i>E. coli</i> 303139 26 | n.d. | human feces | 98.51 | JHTB01000026.1 |
| <i>E. coli</i> O2-like O- AGC | O2:H49 | n.d. | 77.14 | KY115228.1 |