| Category | Strain | NCBI accession number | Sequence type | Clonal complex | Sero-type | Host species | Source | Country |
|----------|--------|-----------------------|---------------|----------------|-----------|--------------|--------|---------|
| PRGBS    | 20161102 | SAMN06032651 | 22 | 22 | II | human | (invasive) | United States |
|          | 2013226301 | SAMN06032015 | 1316 | 19 | III | human | (invasive) | United States |
|          | 8607-03 | SAMN06032042 | 19 | 19 | III | human | (elderly) | blood | United States |
|          | 2014202921 | SAMN06335547 | 1 | 1 | V | human | sterile site | China |
|          | CUHK GBS 6A 15 | SAMN14145430 | 651 | 103 | Ia | human | (elderly) | infection on left foot | Japan |
|          | SU12 | SAMN26811719 | 1 | 1 | III | human | (elderly) | transtracheal aspirates | Japan |
|          | SU67 | SAMN26811721 | 1 | 1 | III | human | (elderly) | transtracheal aspirates | Japan |
|          | AC-13238-1 | SAMEA5842699 | 23 | 23 | Ia | human | (elderly) | drainage fluid (abscess in the right upper leg) | Germany |
|          | AC-13238-2 | SAMEA5842700 | 23 | 23 | Ia | human | (elderly) | transtracheal aspirates | Japan |
| CTBPSGBS | SU66 | SAMN26811720 | 1 | 1 | Iib | human | (elderly) | transtracheal aspirates | Japan |
| PSGBS    | 2603V/R | NC_004116.1 | 110 | 19 | V | human | (invasive) | United States |
|          | A909 | NC_007432.1 | 7 | 7 | Ia | human | (neonate) | blood | United States |
|          | BM110 | NZ_LT14196.1 | 17 | 17 | III | human | (neonate) | blood | United States |
|          | COH1 | NZ_HC939456.1 | 17 | 17 | III | human | (neonate) | blood | United States |
|          | NEM316 | NC_004368.1 | 23 | 23 | III | human | (neonate) | blood | United States |
|          | CU_GBS 08 | NC_CP010874 | 283 | 283 | III | human | blood | China |
|          | CU_GBS 98 | NC_CP010875 | 283 | 283 | III | human | cerebrospinal fluid | China |
|          | SG-M1 | NC_CP12419.2 | 283 | 283 | III | human | blood | Singapore |
|          | SG-M158 | NC_CP21864.1 | 283 | 283 | III | human | blood | Singapore |
|          | SG-M25 | NC_CP21867.1 | 19 | 19 | III | human | blood | Singapore |
|          | SG-M4 | NC_CP21870.1 | 23 | 23 | III | human | blood | Singapore |
|          | 32790-3A | NC_CP29561/ | 17 | 17 | III | human | (neonate) | blood | China |
|          | 874391 | NC_CP22537.1 | 17 | 17 | III | human | vagina | Japan |
|          | SGEHI2015-25 | NC_CP25029 | 283 | 283 | III | human | (bighed carp) | muscle | Singapore |
|          | SGEHI2015-113 | NC_CP25026 | 283 | 283 | III | human | (tilapia) | muscle | Singapore |
|          | SGEHI2015-107 | NC_CP25027 | 283 | 283 | III | human | (snakehead) | muscle (fresh fish) | Singapore |
|          | SGEHI2015-95 | NC_CP25028 | 283 | 283 | III | human | (silver carp) | muscle (fresh fish) | Singapore |
|          | NGBS128 | NC_CP12480 | 17 | 17 | III | human | (neonate) | blood | Canada |
|          | NGBS061 | NC_CP07631.1 | 459 | 1 | IV | human | blood | Canada |
|          | NGBS572 | NC_CP07632.1 | 452 | 23 | IV | human | Synovial fluid | Canada |
|          | HU-GSS523 | NC_AP181935 | 335 | 19 | III | human | blood | Japan |
|          | SS1 | NC_CP10867.1 | 1 | 1 | V | human | blood | United States |
|          | GBS30 | NC_CP42002 | 1 | 1 | V | human | blood | United States |
|          | GBS28 | NC_CP42001 | 1 | 1 | V | human | blood | United States |
|          | GBS20 | SAMN12355373 | 1 | 1 | V | human | blood | United States |
|          | GBS19 | NC_CP42000 | 1 | 1 | V | human | blood | United States |
|          | GBS11 | NC_CP41199 | 1 | 1 | V | human | blood | United States |
|          | GBS7 | NC_CP41199 | 1 | 1 | V | human | blood | United States |
|          | CB111 | NC_CP063198.2 | 1 | 1 | V | human | (neonate) | blood | United States |
|          | GBS85147 | NC_CP01039 | 103 | 103 | Ia | human | oropharynx | Brazil |
|          | C001 | NC_CP008813 | 103 | 103 | III | cow | milk | China |
|          | NJ1606 | NC_CP026084 | 103 | 103 | Ia | cow | milk | China |
|          | SA111 | NZ_LT545678.1 | 61 | 67 | II | bovine | milk | Portugal |
|          | FSL S3-026 | SAMN02428925 | 67 | 67 | III | bovine | milk | United States |
|          | GBS ST-1 | NC_CP13202 | 1 | 1 | V | dog | gumline | United States |
|          | 09mas018883 | NC_021485.1 | 1 | 1 | V | cow | milk | Sweden |
|          | FWL1402 | NC_CP16391 | 739 | 283 | III | frog | milk | China |
|          | ILR1005 | NC_021486.1 | 609 | 283 | III | camel | abscess | Kenya |
|          | ILR1112 | HF952106.1 | 617 | 283 | VI | camel | abscess | Kenya |

**TABLES1 List of 92 PSGBS/PRGBS reference genomes**
| Reference | Accession | Sample Type | Sample Description | Country |
|-----------|-----------|-------------|--------------------|---------|
| 01173     | NZ_CP053027.1 | 7 | fish (seabass) | tissue | Kuwait |
| TF0901    | NZ_CP034315.1 | 7 | fish (tilapia) | tissue | China |
| 0199-16-B-RAT | SAMN05762134 | 12 | 10 | lb | rat | nares | United States |
| 0201-16-B-RAT | SAMN05762136 | 12 | 10 | lb | rat | Fetus | United States |
| 196-16-B-RAT | SAMN05762127 | 12 | 10 | lb | rat | Cardiac lesion | United States |
| 197-16-B-RAT | SAMN05762129 | 12 | 10 | lb | rat | milk | United States |
| 3896VN    | SAMN09005654 | 7 | 7 | la | fish | tissue | Viet Nam |
| B105      | SAMN07178057 | 17 | 17 | III | human (neonate) | blood | China |
| B111      | SAMN07178058 | 1 | 1 | VI | human (neonate) | blood | China |
| CH11      | SAMN10055700 | 8 | 10 | lb | human | Vaginal-rectal | Kenya |
| CH17      | SAMN10055702 | 2 | 1 | II | human | Vaginal-rectal | Kenya |
| CH21-83   | SAMN10055703 | 12 | 10 | lb | human | Pus | Kenya |
| CH24      | SAMN10055704 | 103 | 103 | la | human | tissue | Kenya |
| CH35-134  | SAMN10055705 | 23 | 23 | III | human | urine | Kenya |
| CH63      | SAMN10055706 | 17 | 17 | III | human | Vaginal-rectal | Kenya |
| CH8-24    | SAMN10055699 | 2 | 1 | V | human | Vaginal-rectal | Kenya |
| CM142     | SAMN08517483 | 283 | 283 | III | fish | whole organism | Thailand |
| G9        | SAMN20953728 | 103 | 103 | la | bovine | - | China |
| ILR1025   | SAMN06707234 | 610 | VI | camel | milk | Kenya |
| ILR1030   | SAMN06707235 | 617 | VI | camel | milk | Kenya |
| ILR1037   | SAMN06707236 | 612 | la | camel | Gingivitis | Kenya |
| ILR1054   | SAMN06707237 | 615 | la | camel | Wound | Kenya |
| ILR1067   | SAMN06707238 | 614 | V | camel | swab | Kenya |
| ILR1120   | SAMN06707239 | 618 | la | camel | nasal | Kenya |
| ILR1127   | SAMN06707240 | 613 | la | camel | Pus | Kenya |
| M19       | SAMN03292190 | 103 | 103 | la | bovine | milk | China |
| MRI1Z1-200 | SAMN02436213 | 23 | 23 | la | seal | - | United States |
| MRI1Z1-201 | SAMN02436251 | 23 | 23 | la | seal | - | United States |
| MRI1Z1-202 | SAMN02436191 | 23 | 23 | la | seal | - | United States |
| MRI1Z1-203 | SAMN02436258 | 23 | 23 | la | seal | - | United States |
| MRI1Z1-204 | SAMN02436212 | 23 | 23 | la | dog | - | United States |
| MRI1Z1-205 | SAMN02436360 | 1 | 1 | V | dog | - | United States |
| MRI1Z1-206 | SAMN02436211 | 8 | 10 | lb | dog | - | United States |
| NGBS169   | SAMN04093987 | 17 | 17 | III | human (neonate) | blood, EOD | Canada |
| NGBS377   | SAMN04094015 | 17 | 17 | III | human (neonate) | blood, LOD | Canada |
| PPM4      | SAMN08517486 | 283 | 283 | III | fish | whole organism | Thailand |
| PR10      | SAMN08517489 | 283 | 283 | III | fish | whole organism | Thailand |
| SBVN      | SAMN09005652 | 7 | 7 | la | fish | tissue | Viet Nam |
| UBN6      | SAMN08517520 | 283 | 283 | III | fish | whole organism | Thailand |
| UTT114    | SAMN08517522 | 283 | 283 | III | fish | whole organism | Thailand |

PRGBS, group B streptococci with reduced penicillin susceptibility; CTBPSGBS, penicillin-susceptible GBS with reduced cephalosporin susceptibility; PSGBS, penicillin-susceptible GBS.