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| A0A4D6A067 | 3197 ['Ami_5', 'CW_7', 'GLUCO'] |
| A0A4D5ZZT7 | 3198 ['Ami_5', 'CW_7', 'GLUCO'] |
| A0A4D6AQV3 | 3199 ['Ami_5', 'CW_7', 'GLUCO'] |
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| A0A4D6AMV4 | 3202 ['Ami_5', 'CW_7', 'CW_7', 'GLUCO'] |
| A0A4D6AJE4 | 3203 ['Ami_5', 'CW_7', 'CW_7', 'GLUCO'] |
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| A0A222YZS4 | 3207 ['Ami_2', 'LysM', 'SLT_related'] |
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| A0A0A0RQG1 | 3214 ['Ami_2', 'LysM', 'SLT_related'] |
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| A0A385DV03 | 3223 ['Ami_2', 'LysM'] |
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| A0A345M8H2 | 3228 ['Ami_2', 'LysM'] |
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| A0A291LHU5 | 3236 ['Ami_2', 'PG_1'] |
| A0A345MI49 | 3237 ['Ami_2', 'PG_1'] |
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| A0A059PAL4 | 3285 ['Ami_2', 'ZoocinA_TRD'] |
| A0A0D3MKG1 | 3286 ['Ami_2', 'ZoocinA_TRD'] |
| A0A4D6A680 | 3287 ['Ami_2', 'ZoocinA_TRD'] |
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| A0A024B030 | 3313 ['GH25', 'Ami02_C'] |
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| A0A223LD43 | 3317 ['GH25', 'LysM', 'LysM', 'LysM'] |
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| J9PQX3 | 3324 ['GH25', 'SH3'] |
| A0A0E3D9B5 | 3325 ['GH25', 'SH3'] |

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| A0A3T0IJ07 | 3342 ['GH25', 'Ami02_C'] |
| A0A3T0IJ27 | 3343 ['GH25', 'Ami02_C'] |
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| D7RWK6 | 3351 ['Ami_2', 'SH3'] |
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| A0A499SJP3 | 3363 ['PET_M23', 'Ami_2', 'SH3'] |
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| A0A291LA05 | 3383 ['PROKAR_LIPOPROTEIN', 'SLT_related'] |
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| A0A4D6A394 | 3386 ['Ami_3', 'LysM', 'CHAP'] |
| A0A1X9I678 | 3387 ['Ami_3', 'LysM', 'CHAP'] |
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| A0A4D6ALE7 | 3394 ['Ami_3', 'LysM', 'CHAP'] |
| A0A4D5ZY97 | 3395 ['Ami_3', 'LysM', 'CHAP'] |
| A0A4D6A4W3 | 3396 ['Ami_3', 'LysM', 'CHAP'] |
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| A0A2Z5H4J3 | 3406 ['PET_M23', 'PG_1'] |
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| A0A3B8DKH0 | 3411 ['PET_M23', 'PG_1'] |
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| A0A2H4JAS1 | 3430 ['Ami_2', 'SH3', 'SH3'] |
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| U5PW24 | 3432 ['Ami_3', 'LysM', 'LysM'] |
| U5PTK7 | 3433 ['Ami_3', 'LysM', 'LysM'] |
| M1IEI0 | 3434 ['Ami_3', 'LysM', 'LysM'] |
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| F7V9F0 | 3815 ['GH25', 'SH3'] |
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| A0A3Q8I7V4 | 3820 Unknown |
| A0A0A7DMK9 | 3821 ['GH25', 'LysM', 'SH3'] |
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| E3W8H6 | 3823 ['GH25'] |
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| Q71JA9 | 3831 ['GH25'] |

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| Q6SEB5 | 3834 ['GH25', 'SH3'] |
| Q38317 | 3835 ['GH25', 'SH3'] |
| Q65YV6 | 3836 ['GH25', 'SH3'] |
| X2CXX8 | 3837 ['GH25', 'SH3'] |
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| A0A1W6JNM6 | 3839 ['Ami_2', 'CHAP'] |
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| I3PV70 | 3903 ['Ami_2', 'SH3'] |
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| A0A455ZIK7 | 3908 ['Ami_2'] |
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| A0A345MKE4 | 3914 ['Ami_2', 'CW_1', 'CW_1', 'CW_1', 'CW_1', 'CW_1', 'CW_1'] |
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| A0A1B1SDV2 | 3917 ['Ami_2', 'ZoocinA_TRD'] |
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| X4YGT6 | 3994 ['Ami_2', 'SH3'] |
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| S5M4J3 | 4079 ['Ami_2', 'SH3', 'SH3'] |
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| A0A0B5D123 | 4088 ['Ami_2', 'PSA_CBD', 'PSA_CBD'] |
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| A0A059T5J4 | 4166 ['PET_M15', 'PSA_CBD', 'PSA_CBD'] |
| A0A127AWA8 | 4167 ['PET_M15', 'PG_1', 'PG_1'] |
| A0A3S9X9Y9 | 4168 ['PET_M15', 'PG_1'] |
| A0A217EQM4 | 4169 ['PET_M15', 'PG_1', 'PG_1'] |
| A0A2H4J4U2 | 4170 ['PET_M15', 'PG_1'] |
| C8CHK7 | 4171 ['PET_M15'] |
| A0A088C4T8 | 4172 ['PET_M15'] |
| A0A0A7HAX7 | 4173 ['PET_M15'] |
| A0A2D0Z549 | 4174 ['PET_M15'] |
| A0A2D0YYE9 | 4175 ['PET_M15'] |
| R9ZXQ6 | 4176 ['Ami_3'] |
| R9ZZI3 | 4177 ['Ami_3'] |
| S0A0K5 | 4178 ['Ami_3'] |
| A0A0E3XA78 | 4179 ['DUF1906'] |
| A0A0E3T822 | 4180 ['DUF1906'] |
| A0A0K0NKU4 | 4181 ['DUF1906'] |
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| C4NTF2 | 4183 ['Ami_2'] |
| C4NT73 | 4184 ['Ami_2'] |
| A0A345AYL4 | 4185 ['Ami_2'] |
| A0A191VYM4 | 4186 ['Ami_2'] |
| A0A2Z4QHJ1 | 4187 ['Ami_2'] |
| A0A3T0IK12 | 4188 ['Ami_2'] |
| A0A3Q9R8T9 | 4189 ['Ami_2'] |
| Q8W6M2 | 4190 ['Ami_2'] |
| A0A068CC96 | 4191 ['Ami_2'] |
| A0A2H4PGK4 | 4192 ['SLT_related'] |
| A0A0K1YAG1 | 4193 ['SLT_related'] |
| A0A0K1YA75 | 4194 ['SLT_related'] |
| K4PAU3 | 4195 ['SLT_related'] |
| A0A1J0GQA6 | 4196 ['SLT_related'] |
| A0A2L1IVL5 | 4197 ['SLT_related'] |
| A0A345MG85 | 4198 Unknown |
| A0A345M8G7 | 4199 Unknown |

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| A0A0A0RLZ4 | 4201 ['SLT_related'] |
| A0A221SAT8 | 4202 Unknown |
| A0A0M3MYZ4 | 4203 ['CHAP'] |
| A0A3Q8L7S6 | 4204 ['CHAP'] |
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| A0A140G6T8 | 4206 ['PET_M23'] |
| A0A222ZJJ6 | 4207 ['PET_M23'] |
| A0A222Z8D1 | 4208 ['PET_M23'] |
| A0A4D6B2Q1 | 4209 ['GLUCO'] |
| A0A4D6A666 | 4210 ['GLUCO'] |
| S5MAF1 | 4211 ['GLUCO'] |
| U5P0V3 | 4212 ['GLUCO'] |
| S5M9Y4 | 4213 ['GLUCO', 'Ami_3'] |
| A0A0A7RUN1 | 4214 ['GLUCO'] |
| A0A1P8VWC2 | 4215 ['GLUCO'] |
| A0A2K9V347 | 4216 ['GLUCO'] |
| G3MB92 | 4217 ['Ami_3', 'LysM', 'GLUCO'] |
| G3MB93 | 4218 ['Ami_3', 'LysM'] |
| D6QWP2 | 4219 ['Ami_3', 'SPOR'] |
| D6QWP3 | 4220 ['Ami_3', 'SPOR'] |
| D6QWM8 | 4221 ['Ami_3', 'SPOR'] |
| A0A0U4JE28 | 4222 ['Ami_3'] |
| D6QWM9 | 4223 ['Ami_3', 'SPOR'] |
| D6QWNO | 4224 ['Ami_3', 'SPOR'] |
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| A0A2H4JCM7 | 4226 ['Ami_3', 'GLUCO'] |
| A0A3G3BWR1 | 4227 ['Ami_3', 'SH3'] |
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| A0A2P1JU23 | 4229 ['Ami_3'] |
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| A0A0N9SGH1 | 4231 ['Ami_3'] |
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| A0A0K1LMD7 | 4240 ['Ami_3', 'SH3'] |
| D6QWM7 | 4241 ['Ami_3', 'SPOR'] |
| E5DV68 | 4242 ['Ami_3', 'SPOR'] |
| A0A290GJY1 | 4243 ['Ami_3', 'SPOR'] |
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| A0A0N6W8I1 | 4245 ['Ami_3', 'LysM', 'LysM'] |

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| S5M842 | 4246 ['Ami_3', 'Ami02_C'] |
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| A0A1D6X870 | 4248 ['Ami_3'] |
| A0A3Q9R7T7 | 4249 ['Ami_3', 'Ami02_C'] |
| A0A2I7QIN4 | 4250 ['Ami_3'] |
| A0A346FK38 | 4251 ['Ami_3'] |
| P89923 | 4252 ['Ami_3'] |
| I1TLF9 | 4253 ['Ami_3'] |
| Q5ILA1 | 4254 ['Ami_3', 'SPOR'] |
| B6RT63 | 4255 ['Ami_3', 'Ami02_C'] |
| A0A0A8WIP6 | 4256 ['Ami_3'] |
| A0A2R2ZGL3 | 4257 ['Ami_3'] |
| A0A2H4J8A3 | 4258 ['Ami_3', 'SH3'] |
| Q24LG3 | 4259 ['Ami_3'] |
| I1TJX3 | 4260 ['Ami_3'] |
| A0A1L2BYB1 | 4261 ['Ami_3'] |
| A0A2D0WXW5 | 4262 ['Ami_3'] |
| F8UBI4 | 4263 ['Ami_3', 'SPOR'] |
| F8UBD2 | 4264 ['Ami_3'] |
| A0A385ISV1 | 4265 ['Ami_3'] |
| Q8SBN4 | 4266 ['Ami_3'] |
| A0A0A7RUJ1 | 4267 ['Ami_3', 'SPOR'] |
| R9R4A9 | 4268 ['Ami_3'] |
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| A0A2I7R243 | 4271 ['Ami_3'] |
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| A0A516KTN2 | 4282 ['PET_M15', 'Ami_2'] |
| A0A4D6T6X9 | 4283 ['PET_M15'] |
| A0A2R4A103 | 4284 ['PET_M15'] |
| A0A514DIJ5 | 4285 ['PET_M15'] |
| A0A3G2KD16 | 4286 ['PET_M15', 'PG_1'] |
| A0A3G2KA78 | 4287 ['PET_M15', 'PG_1'] |
| A0A3G2KDB4 | 4288 ['PET_M15', 'PG_1'] |
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| A0A2U8ULA9 | 4295 ['SLT_related'] |
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| I3ULH9 | 4297 ['PET_C39'] |
| I3ULY1 | 4298 ['PET_C70', 'GLUCO'] |
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| C7F4E4 | 4300 ['GLUCO', 'PET_C70'] |
| G8CLC4 | 4301 ['GLUCO', 'PET_C70'] |
| A0A0C4K626 | 4302 ['GLUCO', 'PET_C70'] |
| A0A1L5C2A4 | 4303 ['Pesticin_C'] |
| A0A2H5BFZ4 | 4304 ['Pesticin_C'] |
| M4PYB4 | 4305 ['Pesticin_C'] |
| A0A2I7RBM4 | 4306 ['Pesticin_C'] |
| A0A2P0VGB4 | 4307 ['Ami_5'] |
| A0A3G6JGJ4 | 4308 ['GH25'] |
| A0A514TXN1 | 4309 ['PET_M23'] |
| A0A514TX97 | 4310 ['PET_M23'] |
| A0A3Q9RAN6 | 4311 ['PET_M23', 'PG_1'] |
| A0A4Y6EB99 | 4312 ['PET_M23', 'PG_1'] |
| A0A386KPJ2 | 4313 ['PET_M23', 'PG_1'] |
| A0A4D6T9C0 | 4314 ['PET_M23'] |
| A0A4Y6EE89 | 4315 ['PET_M23'] |
| A0A2U8UQJ7 | 4316 ['Ami_2', 'CW_7', 'CW_7'] |
| A0A2U8UQU9 | 4317 ['Ami_2', 'CW_7', 'CW_7'] |
| A0A4D6B3C2 | 4318 ['Ami_2', 'CW_7', 'CW_7', 'CW_7'] |
| A0A4D6AP61 | 4319 ['Ami_2', 'CW_7', 'CW_7'] |
| A0A4D6A2G5 | 4320 ['Ami_2', 'CW_7', 'CW_7'] |
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| H7BW58 | 4322 ['Ami_2'] |
| D6QWN4 | 4323 ['Ami_2', 'SPOR'] |
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| D6QWN2 | 4326 ['Ami_2', 'LysM'] |
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| A0A1D8EUA5 | 4328 ['Ami_2', 'PG_1'] |
| A0A1D8ETE4 | 4329 ['Ami_2', 'PG_1'] |
| A0A1D8ET80 | 4330 ['Ami_2', 'PG_1'] |
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| A0A3S9UC96 | 4335 ['DUF1906', 'Ami_2', 'PET_M23', 'DUF4185'] |
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| A0A2K5B2A3 | 4337 ['GH25', 'CW_7', 'CW_7'] |

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| Q20DB2 | 4339 ['GH25'] |
| Q9AZ81 | 4340 ['GH25', 'SH3'] |
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| A0A1D8ETQ2 | 4342 ['GH25'] |
| A0A1D8ETP4 | 4343 ['GH25'] |
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| A0A2P1CIJ7 | 4345 ['GH25', 'CW_7', 'LysM'] |
| I3VYU7 | 4346 ['GH25', 'PG_1'] |
| A0A4D6AST6 | 4347 ['GH25', 'LysM', 'LysM'] |
| A0A141HSE6 | 4348 ['GH25', 'LysM', 'LysM', 'LysM'] |
| Q0SPG7 | 4349 ['GH25', 'SH3', 'SH3'] |
| I2E8W9 | 4350 ['GH25', 'SH3', 'SH3'] |
| A0A2Z2UC06 | 4351 ['GH25'] |
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| A0A2P0ZLG2 | 4357 ['GH25'] |
| A0A2K9V3I9 | 4358 ['GH25'] |
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| D0R7H8 | 4360 ['GH25'] |
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| B6D7J9 | 4362 ['GH25', 'SH3', 'LysM'] |
| A0A345MZG2 | 4363 ['GH25', 'CW_7'] |
| A0A4P8W8G2 | 4364 ['GH25'] |
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| A0A514DI35 | 4366 ['PET_M23'] |
| A0A2Z4Q731 | 4367 ['PET_M23'] |
| A0A514DDD7 | 4368 ['PET_M23'] |
| A0A386KMI0 | 4369 ['PET_M23'] |
| A0A2Z4Q5M5 | 4370 ['PET_M23', 'PG_1', 'PG_1'] |
| A0A2Z4QAM1 | 4371 ['PET_M23', 'PG_1', 'PG_1'] |
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| A0A3G3LY09 | 4373 ['PET_M23'] |
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| A0A3G3M3K7 | 4375 ['PET_M23'] |
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| L0LC03 | 4377 ['PET_M23'] |
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| A0A1B0XUH3 | 4379 ['PET_M23'] |
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| A0A3G2KJ81 | 4383 ['PET_M23', 'LysM'] |

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| A0A3G2KEZ6 | 4386 ['PET_M23'] |
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| A0A3G2KFM1 | 4388 ['PET_M23', 'Ami_2'] |
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| A0A3G2KJH4 | 4390 ['PET_M23'] |
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| V5R999 | 4392 ['PET_M23'] |
| A0A3G2KHR7 | 4393 ['PET_M23'] |
| A0A386KQ61 | 4394 ['PET_M23', 'PG_1'] |
| W8P064 | 4395 ['PET_M23'] |
| A0A3G3LYQ8 | 4396 ['NLPC_P60', 'PET_M23'] |
| A0A292GAV4 | 4397 ['PET_M23'] |
| Q859T2 | 4398 ['PET_M23'] |
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| L7TJA9 | 4408 ['GH24'] |
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| R4IFH0 | 4410 ['SLT_related'] |
| A0A1B2ICU1 | 4411 ['SLT_related'] |
| A0A1B2IEY6 | 4412 ['SLT_related'] |
| A0A482IHN6 | 4413 ['SLT_related'] |
| A0A2H5BHL8 | 4414 ['SLT_related'] |
| A0A1S6L1V1 | 4415 ['SLT_related'] |
| W8CZD4 | 4416 ['SLT_related'] |
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| A0A3T0IDD9 | 4421 ['Ami_2', 'PG_1'] |
| A0A142F1N7 | 4422 ['Ami_2', 'PG_1', 'PG_1'] |
| A0A3G3BWD6 | 4423 ['Ami_2', 'LysM', 'LysM', 'PG_1'] |
| A0A0S2SXM5 | 4424 ['Ami_2', 'LysM', 'PG_1'] |
| A0A3G3BWP3 | 4425 ['Ami_2', 'LysM', 'LysM', 'SH3'] |
| A0A1B0T6L3 | 4426 ['Ami_2'] |
| A0A1W6DX33 | 4427 ['Ami_2', 'SH3'] |
| A0A1B0UZW5 | 4428 ['Ami_2', 'SH3'] |
| A0A2Z4QGE6 | 4429 ['Ami_2', 'SH3'] |

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| F4YXS2 | 4431 ['PG_1', 'PET_M15'] |
| A0A0K0PVI5 | 4432 ['PG_1', 'PET_M15'] |
| A0A2I7RPW4 | 4433 ['NLPC_P60'] |
| A0A2I7QVY1 | 4434 ['NLPC_P60'] |
| M4Q149 | 4435 ['NLPC_P60'] |
| A0A3Q9R5V9 | 4436 ['NLPC_P60'] |
| A0A220YL75 | 4437 ['GH24'] |
| A0A2I7RY31 | 4438 ['GH24'] |
| D7R9U1 | 4439 ['PET_U40'] |
| A0A1B0WKU4 | 4440 ['GH108', 'PG_3'] |
| Q9MC03 | 4441 ['GH108'] |
| A0A4E0W528 | 4442 ['GH108'] |
| A0A3G2KA11 | 4443 ['Ami_2'] |
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| A0A0U4B3G8 | 4445 Unknown |
| A0A249XLH4 | 4446 Unknown |
| A0A3G3BY37 | 4447 ['Ami_2', 'LysM', 'PG_1'] |
| A0A2Z3EAE0 | 4448 ['Ami_2', 'SH3', 'SH3'] |
| D6QWN1 | 4449 ['Ami_2'] |
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| A0A3G2KAD5 | 4451 ['CHAP', 'LysM'] |
| H7BV84 | 4452 ['GLUCO', 'CHAP', 'CW_7', 'CW_7'] |
| A0A509ER44 | 4453 ['CHAP'] |
| G8EY10 | 4454 ['NLPC_P60'] |
| M4SNU1 | 4455 ['NLPC_P60'] |
| M4QR76 | 4456 ['SLT_related'] |
| A0A345M6Y7 | 4457 ['SLT_related'] |
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| A0A514D4K4 | 4464 ['MUR'] |
| F5B3Y2 | 4465 ['YkuD'] |
| H2BCV4 | 4466 ['GLUCO', 'YkuD'] |
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| A0A3G3BXK0 | 4468 Unknown |
| I6R1D5 | 4469 ['Ami_3'] |
| D1LV09 | 4470 ['GH24'] |
| F4YCR3 | 4471 ['GH24'] |
| A0A482IE72 | 4472 ['GH24'] |
| R9TQ04 | 4473 ['Ami_2', 'Cu_amine_oxidN1'] |
| A0A249XNN9 | 4474 ['Ami_2'] |
| Q24LH4 | 4475 ['3D', 'NLPC_P60'] |

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| Q9FZT9 | 4479 ['SLT_related'] |
| A0A1U9AK71 | 4480 ['PG_3', 'SLT_related'] |
| U5PT78 | 4481 ['PET_M15'] |
| V5Q8V7 | 4482 ['PROKAR_LIPOPROTEIN', 'pesticin_lyz_like2', 'GH24'] |
| Q94ML5 | 4483 ['SLT_related', 'AA_TRNA_LIGASE_II_GLYAB'] |
| C0KIU7 | 4484 ['GLUCO'] |
| A0A2P1CIB7 | 4485 ['CHAP'] |
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| G4KKR9 | 4487 ['SLT_related'] |
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| C8CHM9 | 4489 ['SLT_related'] |
| Q7Y4B2 | 4490 ['SLT_related'] |
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| A0A0A8J856 | 4492 ['SLT_related'] |
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| A0A1B0XTZ1 | 4494 ['SLT_related'] |
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| G4W937 | 4497 ['SLT_related'] |
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| A0A3Q8HD45 | 4499 ['Ami_2', 'LysM', 'LysM'] |
| J9PUD3 | 4500 ['GLUCO'] |
| A0A2Z4QA43 | 4501 ['Ami_2', 'SH3'] |
| A0A2K9VH44 | 4502 ['Ami_2', 'GLUCO'] |
| H7BVK7 | 4503 ['Ami_2', 'GLUCO'] |
| H7BUY1 | 4504 ['SLT_related', 'Ami_2', 'SLH'] |
| A0A345BPY8 | 4505 ['SLT_related', 'Ami_2', 'SH3'] |
| A0A2K9V2U2 | 4506 ['SLT_related', 'Ami_2', 'SPOR'] |
| H7BUU5 | 4507 ['SLT_related'] |
| H7BV73 | 4508 ['PROKAR_LIPOPROTEIN', 'SLT_related', 'PG_1'] |
| Q9FZW2 | 4509 ['SLT_related'] |
| A0A2Z4GUC1 | 4510 ['Ami_5', 'SLT_related'] |
| A0A1P8VV77 | 4511 ['GH25'] |
| A0A0U4JCL8 | 4512 ['CHAP'] |
| F0PILO | 4513 ['SLT_related'] |
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| A0A4D6DSD5 | 4515 ['CHAP'] |

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| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Alphaproteobacteria | Caulobacterales |
| Proteobacteria | Alphaproteobacteria | Caulobacterales |
| Proteobacteria | Alphaproteobacteria | Sphingomonadales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Oceanospirillales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |

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| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Chroococcales |
| Cyanobacteria | Cyanophyceae | Chroococcales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Sphingomonadales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
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| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |

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| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
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| Firmicutes | Bacilli | Lactobacillales |
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| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Lactobacillales |
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| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |

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[illegible]

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| Proteobacteria | Alphaproteobacteria | Caulobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Cyanobacteria | Cyanophyceae | Nostocales |
| Cyanobacteria | Cyanophyceae | Nostocales |
| Cyanobacteria | Cyanophyceae | Nostocales |
| Proteobacteria | Acidithiobacillia | Acidithiobacillales |

| | | |
|----------------|---------------------|------------------|
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |

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| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
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| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Unknown |
| Unknown | Unknown | Unknown |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |

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| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
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| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
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| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |

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| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
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| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Unknown | Unknown | Unknown |

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| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
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| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
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| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
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| Firmicutes | Bacilli | Bacillales |

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| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Unknown | Unknown | Unknown |
| Bacteroidetes | Bacteroidia | Bacteroidales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Firmicutes | Bacilli | Bacillales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Actinobacteria | Coriobacteriia | Eggerthellales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |

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|----------------|---------------------|------------------|
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
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| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |

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| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Pelagibacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Epsilonproteobacteria | Unknown |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Cyanobacteria | Cyanophyceae | Oscillatoriales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Aeromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Proteobacteria | Gammaproteobacteria | Oceanospirillales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |

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| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Bacteroidetes | Bacteroidia | Bacteroidales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Alphaproteobacteria | Caulobacterales |
| Proteobacteria | Alphaproteobacteria | Pelagibacterales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Cyanobacteria | Cyanophyceae | Chroococcales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Cyanobacteria | Cyanophyceae | Chroococcales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Lactobacillales |

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| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Deinococcus-Thermus | Deinococci | Thermales |

[illegible]

[illegible]

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| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Clostridia | Clostridiales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |

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| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Clostridia | Clostridiales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Candidatus Saccharibacteria | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Proteobacteria | Gammaproteobacteria | Pasteurellales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Erysipelotrichia | Erysipelotrichales |

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| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Propionibacteriales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Clostridia | Thermoanaerobacterales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Clostridia | Clostridiales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Cyanobacteria | Cyanophyceae | Chroococcales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Oscillatoriales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Corynebacteriales |
| Actinobacteria | Actinobacteria | Micrococcales |

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| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Alphaproteobacteria | Rhizobiales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Streptosporangiales |
| Actinobacteria | Actinobacteria | Streptosporangiales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Sphingomonadales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |

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| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Alteromonadales |
| Proteobacteria | Gammaproteobacteria | Vibrionales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Bacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Actinobacteria | Actinobacteria | Streptomycetales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Unknown | Unknown | Unknown |
| Bacteroidetes | Flavobacteriia | Flavobacteriales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Cyanobacteria | Cyanophyceae | Synechococcales |
| Firmicutes | Bacilli | Bacillales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Clostridia | Clostridiales |

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| Actinobacteria | Actinobacteria | Streptomycetales |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Proteobacteria | Gammaproteobacteria | Pseudomonadales |
| Actinobacteria | Actinobacteria | Actinomycetales |
| Actinobacteria | Actinobacteria | Bifidobacteriales |
| Proteobacteria | Gammaproteobacteria | Enterobacterales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Deinococcus-Thermus | Deinococci | Thermales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Proteobacteria | Betaproteobacteria | Burkholderiales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Proteobacteria | Gammaproteobacteria | Xanthomonadales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Proteobacteria | Alphaproteobacteria | Sphingomonadales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Firmicutes | Clostridia | Clostridiales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Clostridia | Clostridiales |
| Unknown | Unknown | Unknown |
| Unknown | Unknown | Unknown |
| Firmicutes | Bacilli | Bacillales |
| Unknown | Unknown | Unknown |
| Actinobacteria | Actinobacteria | Micrococcales |
| Actinobacteria | Actinobacteria | Micrococcales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |
| Firmicutes | Bacilli | Lactobacillales |

Mycobacteriaceae
Mycobacteriaceae
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Mycobacteriaceae
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Mycobacteriaceae
Mycobacteriaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Unknown
Gordoniaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae
Tsukamurellaceae
Gordoniaceae
Gordoniaceae
Gordoniaceae

Mycolicibacterium
 Mycolicibacterium
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 Mycolicibacterium
 Mycolicibacterium
 Mycolicibacterium
 Mycobacterium
 Mycolicibacterium
 Gordonia
 Gordonia
 Gordonia
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 Gordonia
 Unknown
 Gordonia
 Gordonia
 Gordonia
 Gordonia
 Gordonia
 Gordonia
 Tsukamurella
 Gordonia
 Gordonia
 Gordonia

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| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycobacterium |
| Mycobacteriaceae | Mycobacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Gordoniaceae | Gordonia |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Unknown | Unknown |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycobacterium |
| Mycobacteriaceae | Mycobacterium |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |

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|--------------------|----------------|
| Xanthomonadaceae | Xanthomonas |
| Xanthomonadaceae | Xanthomonas |
| Aeromonadaceae | Aeromonas |
| Erwiniaceae | Pantoea |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Salmonella |
| Morganellaceae | Proteus |
| Enterobacteriaceae | Raoultella |
| Enterobacteriaceae | Cronobacter |
| Enterobacteriaceae | Escherichia |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Microcystaceae | Microcystis |
| Microcystaceae | Microcystis |
| Brucellaceae | Ochrobactrum |
| Sphingomonadaceae | Sphingomonas |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Flavobacteriaceae | Flavobacterium |
| Alcaligenaceae | Achromobacter |
| Enterobacteriaceae | Enterobacter |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Cronobacter |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Escherichia |
| Aeromonadaceae | Aeromonas |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Salmonella |
| Erwiniaceae | Pantoea |
| Unknown | Unknown |
| Enterobacteriaceae | Escherichia |

| | |
|--------------------|-------------------|
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Mycobacteriaceae | Mycolicibacterium |
| Unknown | Unknown |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Listeriaceae | Listeria |
| Unknown | Unknown |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |

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|------------------|---------------|
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
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| Enterococcaceae | Enterococcus |
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| Enterococcaceae | Enterococcus |
| Unknown | Unknown |
| Unknown | Unknown |
| Enterococcaceae | Enterococcus |
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| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Streptococcaceae | Streptococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |

| | |
|------------------------|-------------------------|
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
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| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Enterobacteriaceae | Escherichia |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pelagibacteraceae | Candidatus Pelagibacter |
| Pelagibacteraceae | Candidatus Pelagibacter |
| Pelagibacteraceae | Candidatus Pelagibacter |
| Pseudoalteromonadaceae | Pseudoalteromonas |
| Alteromonadaceae | Marinobacter |
| Pseudoalteromonadaceae | Pseudoalteromonas |
| Pseudoalteromonadaceae | Pseudoalteromonas |
| Pelagibacteraceae | Candidatus Pelagibacter |

Pelagibacteraceae
 Enterobacteriaceae
 Erwiniaceae
 Colwelliaceae
 Unknown
 Unknown
 Unknown
 Xanthomonadaceae
 Aeromonadaceae
 Aeromonadaceae
 Aeromonadaceae
 Vibrionaceae
 Vibrionaceae
 Gordoniaceae
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 Unknown
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 Bacillaceae
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[illegible][illegible]

Streptomycetaceae
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Enterococcaceae
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Streptomyces
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Enterococcus
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Unknown
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Enterococcus
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Enterococcus
Enterococcus
Unknown
Enterococcus
Unknown
Enterococcus
Enterococcus

| | |
|------------------|---------------|
| Enterococcaceae | Enterococcus |
| Unknown | Unknown |
| Streptococcaceae | Lactococcus |
| Leuconostocaceae | Leuconostoc |
| Leuconostocaceae | Leuconostoc |
| Leuconostocaceae | Leuconostoc |
| Leuconostocaceae | Leuconostoc |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
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| Lactobacillaceae | Lactobacillus |
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| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Virgibacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |

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| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Listeriaceae | Brochothrix |
| Listeriaceae | Brochothrix |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Streptococcaceae | Streptococcus |
| Listeriaceae | Brochothrix |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Alcaligenaceae | Bordetella |
| Alcaligenaceae | Bordetella |
| Alcaligenaceae | Bordetella |

Alcaligenaceae
Alcaligenaceae
Pseudomonadaceae
Pseudomonadaceae
Pseudomonadaceae
Pseudomonadaceae
Pseudomonadaceae
Pseudomonadaceae
Pseudomonadaceae
Unknown
Yersiniaceae
Alcaligenaceae
Streptococcaceae
Streptococcaceae
Streptococcaceae
Streptococcaceae
Streptococcaceae
Streptococcaceae
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Microbacteriaceae
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Microbacteriaceae
Microbacteriaceae
Microbacteriaceae
Micrococcaceae
Micrococcaceae
Micrococcaceae
Micrococcaceae
Micrococcaceae
Micrococcaceae

Bordetella
Bordetella
Pseudomonas
Pseudomonas
Pseudomonas
Pseudomonas
Pseudomonas
Pseudomonas
Pseudomonas
Unknown
Yersinia
Bordetella
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
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Streptococcus
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Streptococcus
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Streptococcus
Streptococcus
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Streptococcus
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Microbacterium
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter

[illegible]

| | |
|----------------------|-------------------|
| Caulobacteraceae | Caulobacter |
| Pectobacteriaceae | Pectobacterium |
| Pectobacteriaceae | Pectobacterium |
| Enterobacteriaceae | Cronobacter |
| Enterobacteriaceae | Cronobacter |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Enterobacteriaceae | Salmonella |
| Yersiniaceae | Yersinia |
| Yersiniaceae | Yersinia |
| Yersiniaceae | Yersinia |
| Yersiniaceae | Yersinia |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Pectobacteriaceae | Dickeya |
| Enterobacteriaceae | Cronobacter |
| Pasteurellaceae | Pasteurella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Enterobacter |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Salmonella |
| Unknown | Unknown |
| Enterobacteriaceae | Salmonella |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Unknown |
| Enterobacteriaceae | Escherichia |
| Pasteurellaceae | Haemophilus |
| Pasteurellaceae | Haemophilus |
| Pasteurellaceae | Pasteurella |
| Pasteurellaceae | Mannheimia |
| Pasteurellaceae | Mannheimia |
| Pasteurellaceae | Mannheimia |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Aphanizomenonaceae | Nodularia |
| Aphanizomenonaceae | Nodularia |
| Aphanizomenonaceae | Nodularia |
| Acidithiobacillaceae | Acidithiobacillus |

| | |
|--------------------|----------------|
| Unknown | Unknown |
| Synechococcaceae | Synechococcus |
| Erwiniaceae | Erwinia |
| Erwiniaceae | Erwinia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Unknown | Unknown |
| Unknown | Unknown |
| Rhizobiaceae | Rhizobium |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Xanthomonadaceae | Xanthomonas |
| Burkholderiaceae | Burkholderia |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Unknown | Unknown |
| Rhodobacteraceae | Rhodobacter |
| Rhodobacteraceae | Rhodovulum |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Alcaligenaceae | Achromobacter |
| Alcaligenaceae | Achromobacter |
| Alcaligenaceae | Achromobacter |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |

| | |
|-------------------|----------------|
| Staphylococcaceae | Staphylococcus |
| Unknown | Unknown |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Streptomyetaceae | Streptomyces |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |

| | |
|-----------------------|------------------|
| Listeriaceae | Listeria |
| Unknown | Unknown |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Peptostreptococcaceae | Clostridioides |
| Clostridiaceae | Clostridium |
| Peptostreptococcaceae | Clostridioides |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Peptostreptococcaceae | Clostridioides |
| Peptostreptococcaceae | Clostridioides |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Peptostreptococcaceae | Clostridioides |
| Clostridiaceae | Clostridium |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Erwiniaceae | Pantoea |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Klebsiella |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Cronobacter |
| Xanthomonadaceae | Stenotrophomonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Enterobacteriaceae | Escherichia |

| | |
|--------------------|---------------|
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Shigella |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Cronobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Unknown | Unknown |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Rhizobiaceae | Sinorhizobium |
| Rhizobiaceae | Sinorhizobium |
| Rhizobiaceae | Rhizobium |
| Rhizobiaceae | Sinorhizobium |
| Acaryochloridaceae | Acaryochloris |
| Acaryochloridaceae | Acaryochloris |
| Rhodobacteraceae | Ruegeria |
| Rhodobacteraceae | Ruegeria |
| Rhizobiaceae | Rhizobium |
| Unknown | Unknown |
| Unknown | Unknown |
| Rhizobiaceae | Agrobacterium |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |

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|-------------------|--------------|
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
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| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |

| | |
|--------------------|-------------------|
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Unknown | Unknown |
| Burkholderiaceae | Burkholderia |
| Burkholderiaceae | Burkholderia |
| Unknown | Unknown |
| Alteromonadaceae | Unknown |
| Burkholderiaceae | Burkholderia |
| Burkholderiaceae | Ralstonia |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Mycobacteriaceae | Mycolicibacterium |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Tsukamurellaceae | Tsukamurella |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Nocardia |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Corynebacteriaceae | Corynebacterium |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Corynebacteriaceae | Corynebacterium |
| Nocardiaceae | Rhodococcus |

Gordoniaceae
Corynebacteriaceae
Corynebacteriaceae
Corynebacteriaceae
Nocardiaceae
Corynebacteriaceae
Vibrionaceae
Vibrionaceae
Vibrionaceae
Vibrionaceae
Vibrionaceae
Vibrionaceae
Vibrionaceae
Streptococcaceae
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Streptococcaceae
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Streptococcaceae
Streptococcaceae
Micrococcaceae
Micrococcaceae
Micrococcaceae
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Micrococcaceae
Micrococcaceae
Lactobacillaceae
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Lactobacillaceae
Lactobacillaceae
Lactobacillaceae
Leuconostocaceae
Lactobacillaceae
Lactobacillaceae
Lactobacillaceae
Lactobacillaceae
Lactobacillaceae
Lactobacillaceae
Unknown

Gordonia
Corynebacterium
Corynebacterium
Corynebacterium
Rhodococcus
Corynebacterium
Vibrio
Vibrio
Vibrio
Vibrio
Vibrio
Vibrio
Vibrio
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Streptococcus
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter
Arthrobacter
Lactobacillus
Lactobacillus
Lactobacillus
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Lactobacillus
Lactobacillus
Leuconostoc
Lactobacillus
Lactobacillus
Lactobacillus
Lactobacillus
Lactobacillus
Lactobacillus
Unknown

| | |
|-------------------|----------------|
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Unknown | Unknown |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Unknown | Unknown |
| Unknown | Unknown |
| Staphylococcaceae | Staphylococcus |
| Unknown | Unknown |
| Unknown | Unknown |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |

| | |
|-------------------|----------------|
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Staphylococcaceae | Staphylococcus |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Flavobacteriaceae | Flavobacterium |
| Flavobacteriaceae | Flavobacterium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Unknown | Unknown |
| Bacteroidaceae | Bacteroides |
| Flavobacteriaceae | Croceibacter |
| Bacillaceae | Bacillus |
| Thermaceae | Thermus |
| Thermaceae | Thermus |
| Thermaceae | Thermus |
| Eggerthellaceae | Eggerthella |
| Leuconostocaceae | Weissella |
| Leuconostocaceae | Leuconostoc |
| Leuconostocaceae | Weissella |
| Leuconostocaceae | Weissella |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |

| | |
|--------------------|----------------|
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Synechococcaceae | Synechococcus |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Enterobacteriaceae | Cronobacter |
| Unknown | Unknown |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Pasteurellaceae | Mannheimia |
| Unknown | Unknown |
| Alcaligenaceae | Bordetella |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Brucellaceae | Brucella |

| | |
|--------------------|-------------------------|
| Brucellaceae | Brucella |
| Brucellaceae | Brucella |
| Erwiniaceae | Pantoea |
| Enterobacteriaceae | Escherichia |
| Enterobacteriaceae | Escherichia |
| Rhizobiaceae | Agrobacterium |
| Rhizobiaceae | Agrobacterium |
| Pelagibacteraceae | Candidatus Pelagibacter |
| Rhodobacteraceae | Dinoroseobacter |
| Rhodobacteraceae | Sulfitobacter |
| Rhodobacteraceae | Epibacterium |
| Unknown | Unknown |
| Unknown | Nitratiruptor |
| Unknown | Unknown |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Microcoleaceae | Planktothrix |
| Unknown | Unknown |
| Rhizobiaceae | Sinorhizobium |
| Brucellaceae | Ochrobactrum |
| Rhizobiaceae | Agrobacterium |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Lactococcus |
| Unknown | Unknown |
| Ruminococcaceae | Faecalibacterium |
| Ruminococcaceae | Faecalibacterium |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Aeromonadaceae | Aeromonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Ruminococcaceae | Faecalibacterium |
| Ruminococcaceae | Faecalibacterium |
| Flavobacteriaceae | Nonlabens |
| Oceanospirillaceae | Marinomonas |
| Alcaligenaceae | Achromobacter |
| Alcaligenaceae | Achromobacter |
| Alcaligenaceae | Achromobacter |

| | |
|------------------------|-------------------------|
| Alcaligenaceae | Achromobacter |
| Pseudomonadaceae | Pseudomonas |
| Burkholderiaceae | Burkholderia |
| Burkholderiaceae | Burkholderia |
| Unknown | Unknown |
| Unknown | Unknown |
| Bacteroidaceae | Bacteroides |
| Unknown | Unknown |
| Comamonadaceae | Curvibacter |
| Caulobacteraceae | Caulobacter |
| Pelagibacteraceae | Candidatus Pelagibacter |
| Unknown | Unknown |
| Rhodobacteraceae | Rhodobacter |
| Rhodobacteraceae | Rhodobacter |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Pseudoalteromonadaceae | Pseudoalteromonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Salinivibrio |
| Vibrionaceae | Vibrio |
| Alteromonadaceae | Alteromonas |
| Microcystaceae | Microcystis |
| Vibrionaceae | Vibrio |
| Shewanellaceae | Shewanella |
| Shewanellaceae | Shewanella |
| Microcystaceae | Microcystis |
| Flavobacteriaceae | Nonlabens |
| Unknown | Unknown |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Unknown | Unknown |
| Unknown | Unknown |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Staphylococcaceae | Staphylococcus |
| Streptococcaceae | Streptococcus |

| | |
|------------------|---------------|
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Lactococcus |
| Streptococcaceae | Streptococcus |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Streptococcaceae | Streptococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Enterococcaceae | Enterococcus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Geobacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Listeriaceae | Listeria |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Alcaligenaceae | Achromobacter |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Pseudomonadaceae | Pseudomonas |
| Erwiniaceae | Erwinia |
| Erwiniaceae | Erwinia |
| Thermaceae | Thermus |

[illegible]

| | |
|-------------------|------------------|
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Xanthomonadaceae | Stenotrophomonas |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Paenibacillaceae | Brevibacillus |
| Paenibacillaceae | Brevibacillus |
| Paenibacillaceae | Brevibacillus |
| Clostridiaceae | Clostridium |
| Flavobacteriaceae | Flavobacterium |
| Ruminococcaceae | Faecalibacterium |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Bacillaceae | Exiguobacterium |
| Unknown | Unknown |
| Unknown | Unknown |
| Listeriaceae | Listeria |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Flavobacteriaceae | Cellulophaga |
| Bacillaceae | Anoxybacillus |
| Paenibacillaceae | Paenibacillus |
| Paenibacillaceae | Paenibacillus |
| Paenibacillaceae | Paenibacillus |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Bacillaceae | Exiguobacterium |
| Bacillaceae | Exiguobacterium |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Geobacillus |
| Bacillaceae | Caldibacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |

| | |
|-----------------------|----------------|
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Clostridiaceae | Clostridium |
| Peptostreptococcaceae | Clostridioides |
| Unknown | Unknown |
| Peptostreptococcaceae | Clostridioides |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Shewanellaceae | Shewanella |
| Flavobacteriaceae | Riemerella |
| Halomonadaceae | Halomonas |
| Unknown | Unknown |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Moraxellaceae | Acinetobacter |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Streptomycetaceae | Streptomyces |

| | |
|------------------------|-------------------|
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Nocardiaceae | Rhodococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Prochloraceae | Prochlorococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Pseudoalteromonadaceae | Pseudoalteromonas |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Streptococcaceae | Streptococcus |
| Lactobacillaceae | Lactobacillus |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Streptococcaceae | Streptococcus |
| Ruminococcaceae | Faecalibacterium |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Micrococcaceae | Arthrobacter |
| Propionibacteriaceae | Propionibacterium |
| Propionibacteriaceae | Propionibacterium |
| Propionibacteriaceae | Propionibacterium |
| Corynebacteriaceae | Corynebacterium |
| Pasteurellaceae | Pasteurella |
| Nocardiaceae | Rhodococcus |
| Gordoniaceae | Gordonia |
| Gordoniaceae | Gordonia |
| Streptococcaceae | Streptococcus |
| Erysipelotrichaceae | Erysipelothrix |

| | |
|---|-----------------------|
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Propionibacteriaceae | Propionibacterium |
| Propionibacteriaceae | Propionibacterium |
| Propionibacteriaceae | Propionibacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Thermoanaerobacterales Family III. Incertae Sedis | Thermoanaerobacterium |
| Streptococcaceae | Streptococcus |
| Bacillaceae | Bacillus |
| Clostridiaceae | Clostridium |
| Clostridiaceae | Clostridium |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Micrococcaceae | Arthrobacter |
| Enterococcaceae | Enterococcus |
| Lactobacillaceae | Lactobacillus |
| Ruminococcaceae | Faecalibacterium |
| Clostridiaceae | Clostridium |
| Paenibacillaceae | Paenibacillus |
| Bacillaceae | Geobacillus |
| Listeriaceae | Listeria |
| Unknown | Unknown |
| Unknown | Unknown |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Microcystaceae | Microcystis |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Microcoleaceae | Planktothrix |
| Microbacteriaceae | Pontimonas |
| Nocardiaceae | Rhodococcus |
| Micrococcaceae | Paeniglutamicibacter |

| | |
|--------------------|----------------------|
| Micrococcaceae | Paeniglutamicibacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Sinomonas |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Microbacteriaceae | Microbacterium |
| Microbacteriaceae | Microbacterium |
| Brevibacteriaceae | Brevibacterium |
| Xanthomonadaceae | Xanthomonas |
| Thermaceae | Thermus |
| Thermaceae | Meiothermus |
| Thermaceae | Thermus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Lactobacillaceae | Lactobacillus |
| Leuconostocaceae | Weissella |
| Lactobacillaceae | Lactobacillus |
| Rhizobiaceae | Rhizobium |
| Rhizobiaceae | Rhizobium |
| Erwiniaceae | Erwinia |
| Enterobacteriaceae | Cronobacter |
| Erwiniaceae | Erwinia |
| Erwiniaceae | Erwinia |
| Erwiniaceae | Erwinia |
| Erwiniaceae | Erwinia |
| Vibrionaceae | Vibrio |
| Erwiniaceae | Erwinia |
| Yersiniaceae | Serratia |
| Yersiniaceae | Serratia |
| Microbacteriaceae | Microbacterium |
| Nocardiopsaceae | Thermobifida |
| Nocardiopsaceae | Thermobifida |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Bacillaceae | Exiguobacterium |
| Rhodobacteraceae | Pelagibaca |
| Sphingomonadaceae | Sphingobium |
| Rhodobacteraceae | Ruegeria |
| Rhodobacteraceae | Ruegeria |

| | |
|-----------------------|-----------------|
| Rhodobacteraceae | Paracoccus |
| Rhodobacteraceae | Roseobacter |
| Rhodobacteraceae | Roseobacter |
| Vibrionaceae | Vibrio |
| Shewanellaceae | Shewanella |
| Vibrionaceae | Vibrio |
| Vibrionaceae | Vibrio |
| Alteromonadaceae | Alteromonas |
| Vibrionaceae | Vibrio |
| Pseudomonadaceae | Pseudomonas |
| Flavobacteriaceae | Flavobacterium |
| Pseudomonadaceae | Pseudomonas |
| Unknown | Unknown |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Micrococcaceae | Arthrobacter |
| Bacillaceae | Bacillus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Paenibacillaceae | Brevibacillus |
| Micrococcaceae | Arthrobacter |
| Unknown | Unknown |
| Unknown | Unknown |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Unknown | Unknown |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Streptomycetaceae | Streptomyces |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Streptococcaceae | Lactococcus |
| Unknown | Unknown |
| Flavobacteriaceae | Croceibacter |
| Prochloraceae | Prochlorococcus |
| Synechococcaceae | Synechococcus |
| Synechococcaceae | Synechococcus |
| Paenibacillaceae | Paenibacillus |
| Brevibacteriaceae | Brevibacterium |
| Peptostreptococcaceae | Clostridioides |

| | |
|--------------------|------------------|
| Streptomycetaceae | Streptomyces |
| Rhodobacteraceae | Dinoroseobacter |
| Unknown | Unknown |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Microbacteriaceae | Clavibacter |
| Xanthomonadaceae | Xylella |
| Pseudomonadaceae | Pseudomonas |
| Pseudomonadaceae | Pseudomonas |
| Actinomycetaceae | Actinomyces |
| Bifidobacteriaceae | Bifidobacterium |
| Yersiniaceae | Yersinia |
| Thermaceae | Thermus |
| Thermaceae | Thermus |
| Lactobacillaceae | Lactobacillus |
| Staphylococcaceae | Staphylococcus |
| Burkholderiaceae | Ralstonia |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Xanthomonadaceae | Xanthomonas |
| Intrasporangiaceae | Tetrasphaera |
| Sphingomonadaceae | Citromicrobium |
| Aerococcaceae | Aerococcus |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Ruminococcaceae | Faecalibacterium |
| Unknown | Unknown |
| Unknown | Unknown |
| Unknown | Unknown |
| Ruminococcaceae | Faecalibacterium |
| Unknown | Unknown |
| Unknown | Unknown |
| Bacillaceae | Bacillus |
| Unknown | Unknown |
| Microbacteriaceae | Rathayibacter |
| Micrococcaceae | Arthrobacter |
| Enterococcaceae | Enterococcus |
| Streptococcaceae | Streptococcus |
| Enterococcaceae | Enterococcus |

Host species

Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
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Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Unknown
Mycolicibacterium smegmatis
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Unknown
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia westfalica
Gordonia terrae
Tsukamurella paurometabola
Gordonia terrae
Gordonia terrae
Gordonia terrae

Mycolicibacterium smegmatis

Mycolicibacterium smegmatis
Mycobacterium tuberculosis
Unknown
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
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Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Arthrobacter sp. ATCC 21022
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Gordonia malaquae
Rhodococcus erythropolis
Gordonia terrae
Gordonia terrae
Gordonia neofelifaecis
Unknown
Rhodococcus hoagii
Rhodococcus hoagii
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Unknown
Unknown
Gordonia sp.
Gordonia sp.
Gordonia malaquae

Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Nocardia asteroides
Tsukamurella inchoensis
Tsukamurella inchoensis
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia rubripertincta
Gordonia terrae
Gordonia terrae
Acidovorax citrulli
Pseudomonas aeruginosa
Achromobacter anemicus
Unknown
Vibrio coralliilyticus
Caulobacter vibrioides
Caulobacter vibrioides
Erythrobacter litoralis
Unknown
Nitrincola sp.
Pseudomonas sp.
Sinorhizobium meliloti
Sinorhizobium sp. LM21
Sinorhizobium sp. LM21
Pseudomonas fluorescens
Aeromonas hydrophila
Synechococcus sp. WH 7803
Synechococcus sp.
Unknown
Synechococcus sp.
Synechococcus sp.
Synechococcus sp.
Xanthomonas euvesicatoria
Xanthomonas oryzae
Xanthomonas oryzae
Unknown

Xanthomonas oryzae
Xanthomonas oryzae
Unknown
Pantoea sp.
Salmonella enterica
Salmonella enterica
Proteus mirabilis
Raoultella ornithinolytica
Cronobacter sakazakii
Escherichia coli
Pseudomonas fluorescens
Pseudomonas sp.
Pseudomonas fluorescens
Unknown
Pseudomonas syringae
Unknown
Unknown
Microcystis aeruginosa
Ochrobactrum anthropi
Sphingomonas paucimobilis
Unknown
Unknown
Unknown
Flavobacterium sp.
Achromobacter xylosoxidans
Enterobacter sp. CT7
Escherichia coli
Escherichia coli
Escherichia coli
Salmonella enterica
Salmonella enterica
Cronobacter sakazakii
Escherichia coli
Klebsiella pneumoniae
Klebsiella pneumoniae
Klebsiella pneumoniae
Klebsiella pneumoniae
Klebsiella pneumoniae
Klebsiella pneumoniae
Escherichia coli
Aeromonas salmonicida
Salmonella enterica
Salmonella enterica
Pantoea sp.
Unknown
Escherichia coli

[illegible]

Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia rubripertincta
Gordonia terrae
Mycolicibacterium smegmatis
Unknown
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Corynebacterium vitaeruminis
Corynebacterium vitaeruminis
Corynebacterium vitaeruminis
Corynebacterium vitaeruminis
Corynebacterium vitaeruminis
Corynebacterium vitaeruminis
Corynebacterium glutamicum
Corynebacterium xerosis
Corynebacterium xerosis
Corynebacterium glutamicum
Corynebacterium glutamicum
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Rhodococcus erythropolis
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Listeria monocytogenes
Unknown
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Lactobacillus casei
Lactobacillus casei

Lactobacillus paracasei
Lactobacillus paracasei
Lactobacillus paracasei
Lactobacillus paracasei
Lactobacillus paracasei
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
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Enterococcus faecalis
Unknown
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Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecium
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Streptococcus pneumoniae
Enterococcus faecalis
Enterococcus faecalis

Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Aeromonas salmonicida
Aeromonas sp.
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas hydrophila
Aeromonas salmonicida
Aeromonas hydrophila
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas salmonicida
Aeromonas hydrophila
Aeromonas hydrophila
Aeromonas salmonicida
Aeromonas salmonicida
Vibrio pelagius
Vibrio sp. YD38
Vibrio alginolyticus
Vibrio sagamiensis
Vibrio cyclitrophicus
Vibrio cyclitrophicus
Vibrio cyclitrophicus
Vibrio lentus
Vibrio sp. 12G05
Vibrio sp. F12
Escherichia coli
Pseudomonas fluorescens
Pseudomonas tolaasii
Pseudomonas sp.
Pseudomonas putida
Pseudomonas fluorescens
Candidatus Pelagibacter sp. FZCC0015
Candidatus Pelagibacter ubique
Candidatus Pelagibacter ubique
Pseudoalteromonas sp. Bq0
Marinobacter sp.
Pseudoalteromonas marina
Pseudoalteromonas marina
Candidatus Pelagibacter sp. HTCC7211

Candidatus Pelagibacter sp. FZCC0015

Unknown

Pantoea agglomerans

Colwellia psychrerythraea

Unknown

Candidatus Puniceispirillum marinum

Unknown

Xanthomonas arboricola

Aeromonas hydrophila

Aeromonas hydrophila

Aeromonas hydrophila

Vibrio cholerae

Enterovibrio norvegicus

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia sputi

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Gordonia terrae

Unknown

Unknown

Bacillus cereus

Bacillus thuringiensis

Bacillus cereus

Bacillus cereus

Bacillus cereus

Bacillus cereus

Bacillus cereus

Bacillus cereus
Streptococcus equi
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus pyogenes
Streptococcus dysgalactiae
Streptococcus dysgalactiae
Streptococcus dysgalactiae
Unknown
Streptococcus suis
Streptococcus suis
Streptococcus suis
Unknown
Streptomyces griseofuscus
Streptomyces griseus
Streptomyces lividans
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces lividans
Streptomyces griseus
Streptomyces griseus
Streptomyces platensis
Streptomyces lividans
Streptomyces lividans
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseofuscus
Streptomyces viridochromogenes
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces scabiei
Streptomyces scabiei
Streptomyces toxytricini

Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces griseofuscus
Streptomyces lividans
Streptomyces sp. ZL12
Streptomyces lividans
Streptomyces venezuelae
Streptomyces toxytricini
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces avermitilis
Streptomyces mirabilis
Streptomyces flavovirens
Streptomyces griseus
Streptomyces griseus
Enterococcus faecium
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Unknown
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecalis
Enterococcus faecium
Enterococcus faecium
Enterococcus faecalis
Enterococcus faecalis
Unknown
Enterococcus faecalis
Unknown
Enterococcus faecalis
Enterococcus faecalis

Enterococcus faecalis
Unknown
Lactococcus lactis
Leuconostoc mesenteroides
Leuconostoc mesenteroides
Leuconostoc mesenteroides
Leuconostoc mesenteroides
Streptococcus henryi
Streptococcus iniae
Lactobacillus pentosus
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus brevis
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus brevis
Lactobacillus brevis
Unknown
Lactobacillus brevis
Lactobacillus brevis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Virgibacillus halotolerans
Bacillus amyloliquefaciens
Bacillus subtilis
Bacillus subtilis
Bacillus thuringiensis
Bacillus cereus
Unknown
Bacillus thuringiensis
Bacillus cereus
Unknown
Bacillus cereus
Bacillus cereus

Bacillus cereus
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus cereus
Unknown
Unknown
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis
Unknown
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus cereus
Bacillus cereus
Bacillus cereus
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Enterococcus faecium
Enterococcus faecalis
Brochothrix thermosphacta
Brochothrix thermosphacta
Enterococcus faecalis
Enterococcus faecium
Enterococcus faecium
Streptococcus ictaluri
Brochothrix thermosphacta
Enterococcus faecium
Enterococcus faecium
Staphylococcus pseudintermedius
Staphylococcus pseudintermedius
Staphylococcus aureus
Staphylococcus pseudintermedius
Staphylococcus pseudintermedius
Staphylococcus sciuri
Staphylococcus sciuri
Staphylococcus epidermidis
Staphylococcus epidermidis
Staphylococcus epidermidis
Bordetella bronchiseptica
Bordetella bronchiseptica
Bordetella bronchiseptica

Bordetella bronchiseptica
Bordetella bronchiseptica
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Unknown
Yersinia enterocolitica
Bordetella bronchiseptica
Streptococcus anginosus
Streptococcus pyogenes
Streptococcus dysgalactiae
Streptococcus suis
Streptococcus suis
Streptococcus suis
Streptococcus suis
Streptococcus orisratti
Streptococcus suis
Streptococcus equi
Streptococcus urinalis
Streptococcus constellatus
Streptococcus agalactiae
Streptococcus anginosus
Streptococcus porcinus
Streptococcus agalactiae
Streptococcus urinalis
Streptococcus agalactiae
Streptococcus agalactiae
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022

Caulobacter vibrioides

Caulobacter vibrioides
Pectobacterium carotovorum
Pectobacterium carotovorum
Cronobacter sakazakii
Unknown
Aeromonas salmonicida
Aeromonas hydrophila
Aeromonas hydrophila
Aeromonas hydrophila
Salmonella enterica
Unknown
Yersinia enterocolitica
Unknown
Yersinia enterocolitica
Aeromonas hydrophila
Aeromonas hydrophila
Unknown
Vibrio diazotrophicus
Vibrio cyclitrophicus
Dickeya dadantii
Cronobacter sakazakii
Pasteurella multocida
Klebsiella pneumoniae
Klebsiella pneumoniae
Klebsiella pneumoniae
Enterobacter cloacae
Salmonella enterica
Salmonella enterica
Unknown
Salmonella enterica
Escherichia coli
Unknown
Escherichia sp.
Haemophilus influenzae
Haemophilus influenzae
Pasteurella multocida
Mannheimia haemolytica
Mannheimia haemolytica
Mannheimia haemolytica
Bacillus mycoides
Bacillus thuringiensis
Bacillus thuringiensis
Nodularia spumigena
Nodularia sp. (in: Bacteria)
Nodularia spumigena
Acidithiobacillus caldus

Unknown
Synechococcus sp. CB0204
Erwinia amylovora
Erwinia amylovora
Escherichia sp.
Escherichia coli
Unknown
Unknown
Rhizobium etli
Pseudomonas aeruginosa
Unknown
Xanthomonas citri
Burkholderia thailandensis
Synechococcus sp.
Synechococcus sp.
Unknown
Unknown
Unknown
Synechococcus sp. TCC793
Synechococcus sp. CB0202
Synechococcus sp.
Unknown
Synechococcus sp.
Synechococcus sp.
Synechococcus sp. CB0101
Achromobacter xylosoxidans
Achromobacter xylosoxidans
Achromobacter xylosoxidans
Pseudomonas syringae
Pseudomonas syringae
Pseudomonas syringae
Pseudomonas syringae
Pseudomonas syringae
Pseudomonas aeruginosa
Pseudomonas fluorescens
Synechococcus sp.
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus pseudintermedius
Staphylococcus pseudintermedius

Staphylococcus pseudintermedius
Unknown
Staphylococcus pseudintermedius
Staphylococcus pseudintermedius
Staphylococcus pseudintermedius
Staphylococcus aureus
Staphylococcus epidermidis
Staphylococcus epidermidis
Staphylococcus epidermidis
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus capitis
Streptomyces coelicolor
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces venezuelae
Unknown
Streptomyces griseus
Streptomyces xanthochromogenes
Streptomyces griseus
Streptomyces xanthochromogenes
Streptomyces lividans
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces viridochromogenes
Streptomyces coelicolor
Streptomyces sp.
Streptomyces platensis
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Bacillus thuringiensis
Bacillus cereus
Bacillus thuringiensis
Bacillus cereus
Bacillus thuringiensis
Listeria monocytogenes
Listeria monocytogenes
Listeria sp.

Escherichia coli

Escherichia coli
Escherichia coli
Escherichia coli
Escherichia coli
Shigella sonnei
Escherichia coli
Cronobacter malonaticus
Acinetobacter baumannii
Acinetobacter johnsonii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter johnsonii
Acinetobacter johnsonii
Unknown
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter johnsonii
Unknown
Acinetobacter baumannii
Acinetobacter baumannii
Unknown
Unknown
Acinetobacter baumannii
Acinetobacter baumannii
Sinorhizobium meliloti
Sinorhizobium meliloti
Rhizobium etli
Sinorhizobium sp. LM21
Acaryochloris marina
Acaryochloris marina
Ruegeria pomeroyi
Ruegeria pomeroyi
Unknown
Unknown
Unknown
Agrobacterium tumefaciens
Bacillus cereus
Bacillus thuringiensis
Bacillus thuringiensis
Unknown
Unknown
Bacillus thuringiensis

Bacillus thuringiensis
Unknown
Bacillus thuringiensis
Bacillus thuringiensis
Streptomyces platensis
Streptomyces platensis
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces xanthochromogenes
Streptomyces coelicolor
Streptomyces azureus
Streptomyces azureus
Streptomyces lividans
Streptomyces cattleya
Streptomyces platensis
Streptomyces mirabilis
Streptomyces griseus
Streptomyces xanthochromogenes
Streptomyces griseus
Streptomyces griseus
Streptomyces azureus
Streptomyces xanthochromogenes
Streptomyces lividans
Streptomyces lividans
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Pseudomonas aeruginosa
Unknown
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Unknown

Pseudomonas aeruginosa
Unknown
Pseudomonas aeruginosa
Unknown
Unknown
Burkholderia cenocepacia
Burkholderia thailandensis
Unknown
Unknown
Burkholderia cenocepacia
Ralstonia solanacearum
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Mycolicibacterium smegmatis
Gordonia terrae
Gordonia terrae
Gordonia terrae
Tsukamurella paurometabola
Rhodococcus erythropolis
Gordonia malaquae
Rhodococcus hoagii
Nocardia brasiliensis
Rhodococcus hoagii
Rhodococcus erythropolis
Rhodococcus erythropolis
Rhodococcus erythropolis
Gordonia neofelifaecis
[Brevibacterium] flavum
Rhodococcus hoagii
Rhodococcus hoagii
Gordonia malaquae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Corynebacterium xerosis
Corynebacterium xerosis
Corynebacterium xerosis
Corynebacterium xerosis
Corynebacterium xerosis
Rhodococcus erythropolis

[illegible]

Lactobacillus helveticus
Lactobacillus johnsonii
Lactobacillus johnsonii
Lactobacillus gasseri
Lactobacillus gasseri
Lactobacillus gasseri
Staphylococcus haemolyticus
Staphylococcus haemolyticus
Staphylococcus haemolyticus
Unknown
Staphylococcus epidermidis
Staphylococcus hominis
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus warneri
Staphylococcus pseudintermedius
Gordonia malaquae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Gordonia terrae
Staphylococcus hyicus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus sp.
Unknown
Unknown
Staphylococcus capitis
Unknown
Unknown
Staphylococcus epidermidis
Staphylococcus epidermidis
Staphylococcus epidermidis
Staphylococcus aureus

Unknown
Unknown
Unknown
Staphylococcus epidermidis
Staphylococcus aureus
Staphylococcus sp.
Staphylococcus aureus
Staphylococcus hyicus
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium natorense
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Flavobacterium psychrophilum
Flavobacterium psychrophilum
Clostridium perfringens
Clostridium perfringens
Clostridium perfringens
Unknown
Unknown
Unknown
Bacteroides dorei
Croceibacter atlanticus
Bacillus cereus
Thermus thermophilus
Thermus scotoductus
Thermus scotoductus
Eggerthella lenta
Weissella cibaria
Leuconostoc pseudomesenteroides
Weissella sp.
Weissella ceti
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Vibrio cyclitrophicus
Vibrio cyclitrophicus
Vibrio cyclitrophicus

Vibrio cyclitrophicus
Vibrio diazotrophicus
Synechococcus sp. CB0208
Pseudomonas aeruginosa
Unknown
Cronobacter sakazakii
Unknown
Streptomyces scabiei
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Microbacterium paraoxydans
Microbacterium paraoxydans
Microbacterium paraoxydans
Microbacterium paraoxydans
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces scabiei
Streptomyces scabiei
Streptomyces lividans
Streptomyces viridochromogenes
Streptomyces griseus
Streptomyces griseus
Streptomyces griseus
Streptomyces lividans
Streptomyces griseus
Streptomyces platensis
Mannheimia haemolytica
Unknown
Bordetella bronchiseptica
Pseudomonas putida
Pseudomonas lactis
Brucella abortus

Brucella sp.
Brucella canis
Pantoea agglomerans
Escherichia coli
Escherichia coli
Agrobacterium sp. H13-3
Agrobacterium tumefaciens
Candidatus Pelagibacter ubique
Dinoroseobacter shibae
Sulfitobacter sp. CB2047
Epibacterium mobile
Unknown
Nitratiruptor sp. SB155-2
Unknown
Vibrio sp.
Vibrio maritimus
Planktothrix agardhii
Unknown
Sinorhizobium meliloti
Ochrobactrum intermedium
Agrobacterium tumefaciens
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Lactococcus lactis
Unknown
Faecalibacterium prausnitzii
Faecalibacterium prausnitzii
Aeromonas hydrophila
Aeromonas salmonicida
Aeromonas hydrophila
Vibrio parahaemolyticus
Vibrio cyclitrophicus
Vibrio parahaemolyticus
Vibrio parahaemolyticus
Unknown
Unknown
Unknown
Faecalibacterium prausnitzii
Faecalibacterium prausnitzii
Unknown
Marinomonas sp.
Achromobacter xylosoxidans
Achromobacter xylosoxidans
Achromobacter xylosoxidans

Achromobacter xylosoxidans
Pseudomonas aeruginosa
Unknown
Burkholderia pseudomallei
Unknown
Unknown
Bacteroides fragilis
Unknown
Curvibacter sp.
Caulobacter vibrioides
Candidatus Pelagibacter ubique
Unknown
Rhodobacter capsulatus
Rhodobacter capsulatus
Vibrio splendidus
Vibrio splendidus
Vibrio lentus
Vibrio cyclitrophicus
Pseudoalteromonas sp. YD6
Vibrio splendidus
Vibrio splendidus
Salinivibrio sp.
Vibrio tasmaniensis
Alteromonas gracilis
Microcystis elabens
Vibrio parahaemolyticus
Shewanella putrefaciens
Shewanella putrefaciens
Unknown
Unknown
Unknown
Streptococcus thermophilus
Streptococcus thermophilus
Streptococcus thermophilus
Streptococcus thermophilus
Unknown
Unknown
Streptococcus gordonii
Streptococcus parasanguinis
Streptococcus thermophilus
Streptococcus thermophilus
Streptococcus dysgalactiae
Streptococcus pyogenes
Streptococcus pyogenes
Staphylococcus aureus
Streptococcus suis

Streptococcus azizii
Streptococcus pyogenes
Streptococcus dysgalactiae
Streptococcus dysgalactiae
Lactococcus lactis
Unknown
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Streptococcus thoraltensis
Enterococcus faecium
Enterococcus faecalis
Enterococcus faecalis
Bacillus cereus
Bacillus cereus
Bacillus cereus
Bacillus cohnii
Unknown
Bacillus halmapalus
Geobacillus kaustophilus
Bacillus pumilus
Bacillus subtilis
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Unknown
Unknown
Unknown
Unknown
Achromobacter xylosoxidans
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Unknown
Pseudomonas aeruginosa
Vibrio harveyi
Vibrio parahaemolyticus
Vibrio alginolyticus
Vibrio alginolyticus
Pseudomonas aeruginosa
Erwinia amylovora
Erwinia amylovora
Thermus sp. TC4

[illegible]

Unknown
Listeria monocytogenes
Listeria monocytogenes
Listeria monocytogenes
Bacillus anthracis
Unknown
Bacillus subtilis
Unknown
Bacillus megaterium
Bacillus megaterium
Bacillus megaterium
Listeria monocytogenes
Listeria monocytogenes
Bacillus paralicheniformis
Bacillus pseudocaliphilus
Bacillus subtilis
Unknown
Thermus thermophilus
Flavobacterium sp.
Vibrio cholerae
Vibrio cholerae
Vibrio cholerae
Cellulophaga baltica
Cellulophaga baltica
Cellulophaga baltica
Gordonia sp.
Gordonia sp.
Gordonia malaquae
Gordonia terrae
Sulfitobacter sp. EE-36
Ruegeria pomeroyi
Ruegeria pomeroyi
Roseobacter denitrificans
Ruegeria pomeroyi
Paracoccus thiocyanatus
Paracoccus kondratievae
Sinorhizobium meliloti
Unknown
Streptomyces azureus
Streptomyces venezuelae
Streptomyces venezuelae
Streptomyces coelicolor
Streptomyces coelicolor
Unknown
Streptomyces griseus
Streptomyces griseus

Streptomyces griseus
Streptomyces lividans
Streptomyces griseus
Stenotrophomonas maltophilia
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Streptococcus porcinus
Streptococcus agalactiae
Brevibacillus laterosporus
Brevibacillus laterosporus
Brevibacillus laterosporus
Unknown
Flavobacterium sp. B183
Faecalibacterium prausnitzii
Bacillus megaterium
Bacillus megaterium
Unknown
Unknown
Unknown
Exiguobacterium aurantiacum
Unknown
Unknown
Listeria weihenstephanensis
Unknown
Bacillus pseudocaliphilus
Unknown
Anoxybacillus caldiproteolyticus
Paenibacillus larvae
Paenibacillus larvae
Paenibacillus larvae
Vibrio cholerae
Vibrio cholerae
Unknown
Exiguobacterium alkaliphilum
Exiguobacterium aurantiacum
Bacillus subtilis
Bacillus subtilis
Bacillus megaterium
Unknown
Geobacillus sp. E263
Caldibacillus debilis
Bacillus sp. (in: Bacteria)
Bacillus alcalophilus

Bacillus cereus
Bacillus thuringiensis
Bacillus cereus
Bacillus cereus
Bacillus thuringiensis
Unknown
Bacillus cereus
Bacillus cereus
Bacillus thuringiensis
Bacillus anthracis
Unknown
Clostridioides difficile
Unknown
Clostridioides difficile
Clostridium sporogenes
Clostridium saccharoperbutylacetonicum
Clostridium perfringens
Clostridium perfringens
Clostridium perfringens
Clostridium perfringens
Clostridium perfringens
Unknown
Vibrio cholerae
Vibrio cholerae
Vibrio lentus
Vibrio splendidus
Vibrio metschnikovii
Shewanella inventionis
Riemerella anatipestifer
Halomonas ventosae
Unknown
Acinetobacter baumannii
Unknown
Acinetobacter johnsonii
Acinetobacter johnsonii
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium foliorum
Microbacterium paraoxydans
Microbacterium foliorum
Streptomyces sp.

Rhodococcus erythropolis
Rhodococcus erythropolis
Rhodococcus erythropolis
Rhodococcus erythropolis
Unknown
Synechococcus sp. CB0101
Synechococcus sp. CB0101
Synechococcus sp. CB0101
Prochlorococcus marinus
Synechococcus sp. CB0201
Synechococcus sp.
Pseudoalteromonas sp.
Vibrio alginolyticus
Vibrio parahaemolyticus
Vibrio sp.
Streptococcus thermophilus
Lactobacillus delbrueckii
Microbacterium paraoxydans
Microbacterium paraoxydans
Microbacterium foliorum
Microbacterium foliorum
Microbacterium paraoxydans
Microbacterium foliorum
Microbacterium foliorum
Streptomyces scabiei
Streptomyces scabiei
Streptococcus porci
Streptococcus constellatus
Streptococcus equi
Faecalibacterium prausnitzii
Unknown
Unknown
Unknown
Unknown
Unknown
Arthrobacter sp. ATCC 21022
Propionibacterium freudenreichii
Propionibacterium freudenreichii
Propionibacterium freudenreichii
Corynebacterium pseudotuberculosis
Pasteurella multocida
Rhodococcus erythropolis
Gordonia malaquae
Gordonia rubripertincta
Streptococcus uberis
Erysipelothrix rhusiopathiae

Lactobacillus fermentum
Lactobacillus gasseri
Lactobacillus johnsonii
Propionibacterium freudenreichii
Propionibacterium freudenreichii
Propionibacterium freudenreichii
Microbacterium foliorum
Microbacterium foliorum
Thermoanaerobacterium saccharolyticum
Streptococcus constellatus
Bacillus pumilus
Clostridium perfringens
Clostridium perfringens
Lactobacillus brevis
Lactobacillus brevis
Lactobacillus brevis
Lactobacillus jensenii
Arthrobacter globiformis
Enterococcus faecalis
Lactobacillus plantarum
Faecalibacterium prausnitzii
Clostridium tyrobutyricum
Paenibacillus polymyxa
Geobacillus stearothermophilus
Unknown
Unknown
Unknown
Microbacterium foliorum
Microbacterium foliorum
Microbacterium paraoxydans
Microbacterium foliorum
Microbacterium paraoxydans
Microbacterium foliorum
Microbacterium paraoxydans
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Microcystis aeruginosa
Bacillus pumilus
Bacillus thuringiensis
Unknown
Planktothrix agardhii
Pontimonas salivibrio
Rhodococcus hoagii
Paeniglutamicibacter sulfureus

Paeniglutamicibacter sulfureus
Arthrobacter sp. ATCC 21022
Arthrobacter globiformis
Arthrobacter globiformis
Sinomonas atrocyanea
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter sp.
Arthrobacter globiformis
Microbacterium paraoxydans
Microbacterium oxydans
Brevibacterium fuscum
Xanthomonas citri
Thermus thermophilus
Meiothermus sp.
Thermus thermophilus
Lactobacillus plantarum
Lactobacillus plantarum
Lactobacillus delbrueckii
Lactobacillus delbrueckii
Weissella ceti
Lactobacillus brevis
Rhizobium etli
Rhizobium etli
Erwinia amylovora
Cronobacter sakazakii
Erwinia amylovora
Erwinia amylovora
Erwinia amylovora
Erwinia amylovora
Vibrio alginolyticus
Erwinia amylovora
Serratia marcescens
Serratia marcescens
Microbacterium foliorum
Thermobifida fusca
Thermobifida fusca
Bacillus sp. (in: Bacteria)
Bacillus bogoriensis
Bacillus megaterium
Exiguobacterium alkaliphilum
Pelagibaca abyssi
Sphingobium sp. IP1
Ruegeria pomeroyi
Ruegeria pomeroyi

Paracoccus marcusii
Roseobacter denitrificans
Roseobacter denitrificans
Vibrio sp. F13
Unknown
Vibrio sp. YD21
Vibrio maritimus
Alteromonas sp.
Vibrio cyclitrophicus
Pseudomonas syringae
Flavobacterium psychrophilum
Pseudomonas syringae
Unknown
Arthrobacter globiformis
Arthrobacter globiformis
Arthrobacter sp. ATCC 21022
Arthrobacter sp. ATCC 21022
Bacillus pseudofirmus
Bacillus cereus
Unknown
Brevibacillus laterosporus
Arthrobacter globiformis
Unknown
Unknown
Synechococcus sp.
Synechococcus sp.
Unknown
Streptomyces lividans
Streptomyces lividans
Streptomyces sp.
Unknown
Unknown
Unknown
Unknown
Unknown
Synechococcus sp.
Synechococcus sp. CB0101
Lactococcus garvieae
Unknown
Croceibacter atlanticus
Prochlorococcus marinus
Synechococcus sp. CB0204
Synechococcus sp. WH 7803
Unknown
Brevibacterium iodinum
Clostridioides difficile

Streptomyces lividans
Dinoroseobacter shibae
Unknown
Pseudomonas syringae
Pseudomonas aeruginosa
Clavibacter michiganensis
Xylella fastidiosa
Pseudomonas syringae
Pseudomonas syringae
Unknown
Bifidobacterium thermophilum
Yersinia enterocolitica
Thermus thermophilus
Thermus thermophilus
Lactobacillus rhamnosus
Staphylococcus epidermidis
Unknown
Unknown
Unknown
Unknown
Xanthomonas euvesicatoria
Tetrasphaera jenkinsii
Citromicrobium sp. RCC1878
Aerococcus viridans
Bacillus cereus
Unknown
Faecalibacterium prausnitzii
Unknown
Unknown
Unknown
Faecalibacterium prausnitzii
Unknown
Unknown
Bacillus sp. (in: Bacteria)
Unknown
Rathayibacter toxicus
Arthrobacter sp. ATCC 21022
Enterococcus faecalis
Streptococcus sp. 'group C'
Enterococcus faecalis