

| Gene Number | Gene Name |
|-------------|---------------------|
| 1 | aceBAK |
| 2 | acnA |
| 3 | acrAB |
| 4 | acrR |
| 5 | acs |
| 6 | ada_alkB |
| 7 | adhE |
| 8 | adiA |
| 9 | adiA_adiY |
| 10 | ahpCF |
| 11 | aidB |
| 12 | alaWX |
| 13 | aldB |
| 14 | alkA |
| 15 | alpA |
| 16 | ansB |
| 17 | appCBA |
| 18 | appY |
| 19 | araBAD |
| 20 | araC |
| 21 | araE |
| 22 | araFG_araH_1H_2 |
| 23 | araJ |
| 24 | arcA |
| 25 | argCBH |
| 26 | argD |
| 27 | argE |
| 28 | argF |
| 29 | argI |
| 30 | argR |
| 31 | argU |
| 32 | argW |
| 33 | argX_hisR_leuT_proM |
| 34 | aroF_tyrA |
| 35 | aroG |
| 36 | aroH |
| 37 | aroL_yaiA_aroM |
| 38 | aroP |
| 39 | arsEFG |
| 40 | arsR |
| 41 | aslB |
| 42 | asnA |
| 43 | asnC |
| 44 | aspA |
| 45 | aspV |

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|----|----------------|
| 46 | atoC |
| 47 | atoDAB |
| 48 | atoDAE |
| 49 | betIBA |
| 50 | betT |
| 51 | bioA |
| 52 | bioBFCD |
| 53 | birA_murA |
| 54 | cadBA |
| 55 | cadC |
| 56 | caiF |
| 57 | caiTABCDE |
| 58 | carAB |
| 59 | cbl |
| 60 | cirA |
| 61 | clpP |
| 62 | codBA |
| 63 | cpdB |
| 64 | cpxAR |
| 65 | cpxP |
| 66 | crp |
| 67 | csgBA |
| 68 | csgDEFG |
| 69 | cspA |
| 70 | cutC |
| 71 | cvpA_purF_ubiX |
| 72 | cyaA |
| 73 | cydAB |
| 74 | cynR |
| 75 | cynTSX |
| 76 | cyoABCDE |
| 77 | cysB |
| 78 | cysDNC |
| 79 | cysJIH |
| 80 | cysK |
| 81 | cysPUWAM |
| 82 | cytR |
| 83 | dadAX |
| 84 | dapA_nlpB_purA |
| 85 | dctA |
| 86 | dcuB_fumB |
| 87 | deoCABD |
| 88 | deoR |
| 89 | dmsABC |
| 90 | dnaA |
| 91 | dnaKJ |

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|-----|---------------|
| 92 | dps |
| 93 | dsbA |
| 94 | dsdC |
| 95 | dsdXA |
| 96 | ebgAC |
| 97 | ebgR |
| 98 | ecfABC |
| 99 | ecfD |
| 100 | ecfF |
| 101 | ecfG |
| 102 | ecfH |
| 103 | ecfI |
| 104 | ecfJ |
| 105 | ecfK |
| 106 | ecfLM |
| 107 | ecpD_htrE |
| 108 | edd_eda |
| 109 | emrRAB |
| 110 | entCEBA |
| 111 | envY_ompT |
| 112 | epd_pgk |
| 113 | evgA |
| 114 | exuR |
| 115 | exuT |
| 116 | fabA |
| 117 | fadBA |
| 118 | fadL |
| 119 | fadR |
| 120 | fdhF |
| 121 | fdnGHI |
| 122 | fecABCDE |
| 123 | fecIR |
| 124 | fepA_entD |
| 125 | fepB |
| 126 | fepDGC |
| 127 | fhlA |
| 128 | fhuACDB |
| 129 | fixABCX |
| 130 | fkpA |
| 131 | flgAMN |
| 132 | flgBCDEFGHIJK |
| 133 | flgKL |
| 134 | flgMN |
| 135 | flhBAE |
| 136 | flhDC |
| 137 | fliAZY |

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|-----|--------------|
| 138 | fliC |
| 139 | fliDST |
| 140 | fliE |
| 141 | fliFGHIJK |
| 142 | fliLMNOPQR |
| 143 | fnr |
| 144 | focA_pflB |
| 145 | fpr |
| 146 | frdABCD |
| 147 | fruBKA |
| 148 | FruR |
| 149 | ftsQAZ |
| 150 | fucAO |
| 151 | fucPIKUR |
| 152 | fumA |
| 153 | fumC |
| 154 | fur |
| 155 | galETKM |
| 156 | GalR |
| 157 | galS |
| 158 | gatR_1 |
| 159 | gatYZABCDR_2 |
| 160 | gcvA |
| 161 | gcvR |
| 162 | gcvTHP |
| 163 | gdhA |
| 164 | glcC |
| 165 | glcDEFGB |
| 166 | glgCAP |
| 167 | glgS |
| 168 | glmUS |
| 169 | glnALG |
| 170 | glnB |
| 171 | glnHPQ |
| 172 | glpACB |
| 173 | glpD |
| 174 | glpFK |
| 175 | glpR |
| 176 | glpTQ |
| 177 | gltA |
| 178 | gltBDF |
| 179 | glyA |
| 180 | gntKU |
| 181 | gntR |
| 182 | gntT |
| 183 | gorA |

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|-----|-----------------|
| 184 | grpE |
| 185 | guaBA |
| 186 | gyrA |
| 187 | hcaA1A2CBD_yphA |
| 188 | hcaR |
| 189 | hflB |
| 190 | himA |
| 191 | himD |
| 192 | hipBA |
| 193 | hns |
| 194 | htpG |
| 195 | htpY |
| 196 | htrA |
| 197 | hycABCDEFGH |
| 198 | hydHG |
| 199 | hypA |
| 200 | hypABCDE |
| 201 | ibpAB |
| 202 | icdA |
| 203 | iclMR |
| 204 | idnDOTR |
| 205 | ilvC |
| 206 | ilvIH |
| 207 | ilvY |
| 208 | inaA |
| 209 | ivbL_ilvBN |
| 210 | katG |
| 211 | kbl_tdh |
| 212 | kdpABC |
| 213 | kdpDE |
| 214 | ksgA_epaG_epaH |
| 215 | lacI |
| 216 | lacZYA |
| 217 | lctPRD |
| 218 | leuLABCD |
| 219 | leuO |
| 220 | leuQPV |
| 221 | leuX |
| 222 | lexA_dinF |
| 223 | livJ |
| 224 | livKHMGF |
| 225 | lon |
| 226 | lpxDA_fabZ |
| 227 | lrp |
| 228 | lysA |
| 229 | lysR |

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|-----|----------------------------|
| 230 | lysT_valT_lysW |
| 231 | lysU |
| 232 | malEFG |
| 233 | malI |
| 234 | malK_lamB_malM |
| 235 | malPQ |
| 236 | malS |
| 237 | malT |
| 238 | malXY |
| 239 | malZ |
| 240 | manXYZ |
| 241 | marRAB |
| 242 | mdh |
| 243 | mdlA |
| 244 | mdoGH |
| 245 | melAB |
| 246 | melR |
| 247 | metA |
| 248 | metC |
| 249 | metF |
| 250 | metH |
| 251 | metJ |
| 252 | metR |
| 253 | metT_leuW_glnUW_metU_glnVX |
| 254 | metY_yhbC_nusA_infB |
| 255 | mglBAC |
| 256 | mhpABCDE |
| 257 | mhpR |
| 258 | mlc |
| 259 | moaABCDE |
| 260 | modABC |
| 261 | modE |
| 262 | mopA |
| 263 | mopB |
| 264 | motABcheAW |
| 265 | mtlADR |
| 266 | mtr |
| 267 | nac |
| 268 | nadB |
| 269 | nadR |
| 270 | nagBACD |
| 271 | nagE |
| 272 | narGHJI |
| 273 | narK |
| 274 | narL |
| 275 | narZYWV |

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|-----|---------------------------|
| 276 | ndh |
| 277 | nfo |
| 278 | nhaA |
| 279 | nhaR |
| 280 | nirBDC_cysG |
| 281 | nlpB_purA |
| 282 | nlpD_rpoS |
| 283 | nrdAB |
| 284 | nrfABCDEFG |
| 285 | nuoABCEFGHIJKLMN |
| 286 | nupC |
| 287 | nupG |
| 288 | nycA |
| 289 | ompA |
| 290 | ompC |
| 291 | ompF |
| 292 | ompR_envZ |
| 293 | oppABCDF |
| 294 | osmC |
| 295 | osmE |
| 296 | osmY |
| 297 | ostA_surA_pdxA |
| 298 | oxyR |
| 299 | pdhR_aceEF_lpdA |
| 300 | pheU |
| 301 | pheV |
| 302 | phnCDE_f73_phnFGHIJKLMNOP |
| 303 | phoA |
| 304 | phoBR |
| 305 | phoE |
| 306 | pncB |
| 307 | polB |
| 308 | ppiA |
| 309 | ppsA |
| 310 | proK |
| 311 | proL |
| 312 | proP |
| 313 | prsA |
| 314 | pspABCDE |
| 315 | pspF |
| 316 | pstSCAB_phoU |
| 317 | ptsG |
| 318 | ptsHI_crr |
| 319 | purC |
| 320 | purEK |
| 321 | purHD |

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|-----|------------------------|
| 322 | purL |
| 323 | purMN |
| 324 | purR |
| 325 | putAP |
| 326 | pykF |
| 327 | pyrC |
| 328 | pyrD |
| 329 | rbsDACBK |
| 330 | rbsR |
| 331 | rcsA |
| 332 | rcsAB |
| 333 | recA |
| 334 | recN |
| 335 | rfaDFCL |
| 336 | rhaBAD |
| 337 | rhaSR |
| 338 | rhaT |
| 339 | rob |
| 340 | rotA |
| 341 | rpiB |
| 342 | rpiR_alsBACEK |
| 343 | rpoD |
| 344 | rpoE_rseABC |
| 345 | rpoH |
| 346 | rpoN |
| 347 | rpsU_dnaG_rpoD |
| 348 | rtcAB |
| 349 | rtcR |
| 350 | sdaA |
| 351 | sdhCDAB_b0725_sucABCD |
| 352 | serA |
| 353 | serT |
| 354 | serX |
| 355 | skp_lpxDA_fabZ |
| 356 | slp |
| 357 | sodA |
| 358 | soxR |
| 359 | soxS |
| 360 | speA |
| 361 | speC |
| 362 | srlAEBD_gutM_srlR_gutQ |
| 363 | ssb |
| 364 | ssuEADCB |
| 365 | stpA |
| 366 | sulA |
| 367 | tarTapcheRBYZ |

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|-----|-------------------------|
| 368 | tauABCD |
| 369 | tdcABCDEFG |
| 370 | tdcAR |
| 371 | thrU_tyrU_glyT_thrT |
| 372 | thrW |
| 373 | tnaLAB |
| 374 | tonB |
| 375 | torCAD |
| 376 | torR |
| 377 | treBC |
| 378 | treR |
| 379 | trpLEDCBA |
| 380 | trpR |
| 381 | tsr |
| 382 | tsx |
| 383 | tyrB |
| 384 | tyrP |
| 385 | tyrR |
| 386 | tyrTV |
| 387 | ubiG |
| 388 | udp |
| 389 | uhpA |
| 390 | uhpT |
| 391 | uidR |
| 392 | uidRABC |
| 393 | umuDC |
| 394 | uppS_cdsA_ecfE |
| 395 | uspA |
| 396 | uvrA |
| 397 | uvrB |
| 398 | uvrC |
| 399 | uvrD |
| 400 | uxaCA |
| 401 | uxuABR |
| 402 | valUXY_lysV |
| 403 | wza_wzb_b2060_wcaA_wcaB |
| 404 | xapAB |
| 405 | xapR |
| 406 | xprB_dsbC_recJ |
| 407 | xylAB |
| 408 | xylFGHR |
| 409 | ybaO |
| 410 | ybiS |
| 411 | ycfC_purB |
| 412 | yfhD |
| 413 | yhdG_fis |

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|-----|--------------|
| 414 | yhfA |
| 415 | viaJ |
| 416 | viaKLMNOPQRS |
| 417 | yjbK |
| 418 | yjdHG |
| 419 | zntA |
| 420 | zntR |
| 421 | znuABC |
| 422 | zraP |
| 423 | zwf |