|  |  |
| --- | --- |
| **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 |
| **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 |
| **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 |
| **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 |
| **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 |
| **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** | mhpABCDFE |
| **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 |
| **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 |
| **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 |
| **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 |
| **414** | yhfA |
| **415** | yiaJ |
| **416** | yiaKLMNOPQRS |
| **417** | yjbK |
| **418** | yjdHG |
| **419** | zntA |
| **420** | zntR |
| **421** | znuABC |
| **422** | zraP |
| **423** | zwf |