wang1genome wang9genome

wang1genome 1.0 1.0

wang9genome 1.0 1.0

Citrobacter\_cronae GCA\_020683225 GCA\_020809005 Citrobacter\_farmeri GCA\_023276795 Citrobacter\_gillenii GCA\_023330605 Citrobacter\_europaeus wang1\_hy wang9\_hy Citrobacter\_koseri Citrobacter\_amalonaticus Citrobacter\_murliniae Citrobacter\_pasteurii Citrobacter\_portucalensis Citrobacter\_rodentium GCA\_019795045 Citrobacter\_sedlakii Citrobacter\_freundii Citrobacter\_braakii Citrobacter\_telavivensis GCA\_020639355 Citrobacter\_werkmanii Citrobacter\_youngae GCA\_001273815 GCA\_001306025 GCA\_001411885 GCA\_001922445 GCA\_002189125 GCA\_002215385 GCA\_002252025 GCA\_002252065 GCA\_002252125 GCA\_002738435 GCA\_004103775 GCA\_009856695 GCA\_009857035 GCA\_011077325 GCA\_011077955 GCA\_013371705 GCA\_014218795 GCA\_015731115 GCA\_015893905 GCA\_015894005 GCA\_016076075 GCA\_017151445 GCA\_017151595 GCA\_019659905 GCA\_019660135 GCA\_019660345 GCA\_019660505 GCA\_019660585 GCA\_019660945 GCA\_019731005 GCA\_021417245 GCA\_021417265 GCA\_022343635 GCA\_022430505 GCA\_022585175 GCA\_022646275

Citrobacter\_cronae 1.0 0.9087827480719795 0.9066866743002545 0.8217013910993219 0.9064295453364509 0.8646954734286485 0.9061582447792758 0.9094518848957024 0.9062601163391932 0.9062624534643228 0.8361854175588865 0.8261400842105263 0.8639166339602072 0.8861385868976719 0.9082876326103998 0.821221089420655 0.9083701422291184 0.8206109923664121 0.9061549092303759 0.9090744966442952 0.8253879680915113 0.9066903384223919 0.992337929921623 0.8874048255051168 0.9081881685363945 0.9065121380731581 0.9064477634630251 0.9097040802422406 0.9060025045184612 0.9061913261554623 0.9063004268292683 0.9057778893008476 0.9061338277511961 0.9053764817708334 0.9060396718790054 0.9076451836195508 0.9063618461538461 0.7732771765175719 0.7732984378745504 0.9062075395795485 0.9063385186136073 0.9065745718654435 0.9075627578001058 0.907799080520861 0.9059453276353275 0.9059812412542109 0.9071523746081505 0.9064715859030839 0.9067256902356903 0.9066237614913176 0.906630599642766 0.906264299847793 0.906633976026524 0.9061271681643133 0.9066164008394545 0.9069781526836893 0.9057808718080991 0.906657595169336 0.9061995860118284 0.90632071117933

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Citrobacter\_gillenii 0.8644284434852979 0.8657339361423713 0.8647566984379137 0.82173212012012 0.8642834603174603 1.0 0.8644297539875642 0.8634661466942148 0.8624610832680764 0.862710494246862 0.8341826399510555 0.8235979204892967 0.8674761938469915 0.8648155495397942 0.8637205955463491 0.8201211740375438 0.8644283758043758 0.8183227485380117 0.8648293382546797 0.8656614121114684 0.8233554747774483 0.8647788724192694 0.8626671572527183 0.864027064171123 0.864824941718623 0.8647046509158482 0.8647079102496018 0.8632196987795377 0.8645011522086216 0.8642420172367358 0.8646473471008738 0.8643123940620783 0.8646209962904082 0.864193025682183 0.8635604464751958 0.8638514470557169 0.8642409008769599 0.7699937265093963 0.7700346541383448 0.8649997411701267 0.8651891597979261 0.8644645093396476 0.8648364893895729 0.8649833042328042 0.8653494880000001 0.8650487697245253 0.8632154663940711 0.8646485820499205 0.8655544114470842 0.8652764384288747 0.8653551569984035 0.864202399372713 0.8653709385801649 0.8638027669133193 0.8641497369833603 0.8649822056473094 0.8639013638757241 0.8636659705093834 0.8646383363946472 0.8651814771519659

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Citrobacter\_europaeus 0.9089912455874938 0.927567736215691 0.92485181906852 0.8208723437949899 0.923390282000981 0.8628670083030616 0.9242424911302586 1.0 0.9230926773006136 0.9230926773006136 0.8339526572187778 0.8233860151471016 0.8630905080771235 0.8930570457482553 0.9272014229053049 0.8174982443690219 0.9268301804251112 0.8176778447761194 0.9237734371957157 0.934680880121396 0.8227085767682575 0.9248519970738844 0.9080566756756758 0.8952817861732203 0.9336394332909785 0.9240137530742746 0.9238663157894739 0.9913290811044004 0.923797703396042 0.9243938256048386 0.9234129376257546 0.9243743517816527 0.9233543011835811 0.9238963169587757 0.9244261418853256 0.9274791390067383 0.9232523937198068 0.7714137186742118 0.7714250808407438 0.9248127411793733 0.9243326178901313 0.923958505859375 0.9276167659681899 0.9278932090680102 0.9252019456790123 0.9247188970768851 0.9285690225750435 0.9239345599803344 0.9249173344904538 0.9248238108042043 0.9249211967694566 0.9234002642424243 0.9249491703377387 0.9247009637076999 0.9241154604280738 0.9246032644422311 0.9237786810492769 0.924173824412206 0.9236557952334632 0.9242179476617398

wang1\_hy 0.9067104554812148 0.9423061660470881 0.9854830089306161 0.8205388190587549 0.989173220338983 0.8628925692108668 0.987033472381389 0.9237321010248902 1.0 0.9999360819486404 0.8347909332934491 0.824948148255814 0.8639190952130459 0.9003881650435677 0.9401094046740468 0.8194564155107189 0.9421283106939986 0.8208360130718955 0.9880738108047524 0.923089948992604 0.8260814694224234 0.9854832356308678 0.905284306315266 0.9059660449835734 0.9240271558059775 0.9838937692656391 0.9838323129251701 0.9245313662006378 0.9880422902547323 0.9872343511450382 0.9969515758754863 0.9875640877073392 0.9969247058823532 0.9854261474075796 0.9864360018111841 0.9409184678217821 0.985819194063927 0.7751453464947623 0.7750896451612904 0.9854800745573158 0.9879294316328907 0.989123542402827 0.9432643155510819 0.9415270849080372 0.9838421250291578 0.9873860438024231 0.9431856477832513 0.9851596116061228 0.9848148722157092 0.9848150616438356 0.9854715473441108 0.9869460135282566 0.9839608295036766 0.9868206953488371 0.9843235008103727 0.9837196548529071 0.9869958643617021 0.9834188542621449 0.9907133422818792 0.9878134414831982

wang9\_hy 0.9067445419454453 0.9423098644652538 0.9852911136363637 0.8205315434083602 0.9890789332748025 0.8628155354371444 0.9870366811627375 0.9236964308367895 0.9996711194873729 1.0 0.8347404096889952 0.8252108159117304 0.8640519680293502 0.9003047309072271 0.9401279138991389 0.8194252442483455 0.9420812052358609 0.821829209672663 0.9881743148688047 0.9230497654258032 0.8262264326160815 0.9852913386363636 0.9052058868767056 0.905872927506946 0.9241320395701026 0.9840343950056754 0.984022697547684 0.9244758141245708 0.9877226959758084 0.9869731491836278 0.9967582638590459 0.9872539142273656 0.9967379273274566 0.9855460798338718 0.9862740530814216 0.9408487638512683 0.9856597299137541 0.7764436958266451 0.7762975090397751 0.9852488347260909 0.9877325447778554 0.9888870852610707 0.9432504272863568 0.94151034942182 0.9836576315789474 0.9873983782527881 0.9427767035942886 0.9851787517053207 0.9843806083916082 0.9845754865048764 0.9852073405231758 0.9866324880382774 0.9837410342465753 0.9865337368789363 0.9843853777061263 0.9838134790654638 0.98680011517165 0.983362034090909 0.990565227120161 0.9876178356481482

Citrobacter\_koseri 0.8368686146788992 0.8356076696969695 0.8350488210652305 0.8331528284944626 0.8349496639418709 0.8356920928088506 0.8345981587684879 0.835415061983471 0.835049318455971 0.835066209288299 1.0 0.8362243405775529 0.8322950754830918 0.8348107130017975 0.8363678974358975 0.8344413356598984 0.8340035760171306 0.8313832453509298 0.8350016831091182 0.8369115980629539 0.8353523241317897 0.8350900179586951 0.8371102535899786 0.8350691153381642 0.8362237178702572 0.8347754205327746 0.8346514589574596 0.8364190890207714 0.8343192692422882 0.834607868753763 0.8338184538274607 0.8336975319148937 0.8337539768926725 0.8333244652567976 0.8344239453357102 0.8356546032707449 0.8344434939402896 0.7786746934632562 0.7786922168087699 0.8346939539060162 0.8346486734693876 0.8341126205450735 0.8342106594761171 0.8346936439370564 0.8337624544349939 0.834448484026522 0.8350089759759759 0.8345055518796993 0.8349910057733212 0.834744971445747 0.8347253663663665 0.8344599608551642 0.8348311895464104 0.8344817390002993 0.8378093457667258 0.8351058862876255 0.8340688187556358 0.8351736240193119 0.8342731257485032 0.8349083976083708

Citrobacter\_amalonaticus 0.8259374962473733 0.8253895301418439 0.8284147200689062 0.9124813300492612 0.8241010983847283 0.8253103601953602 0.8275353066037736 0.8245004970930232 0.8258520152986172 0.8259886660777385 0.8361996456223943 1.0 0.8211867954345917 0.8238624926079244 0.8258204193932182 0.8467425835322197 0.8262735202398802 0.8472872940534643 0.8257067859237538 0.8255059848705267 0.9187143768400392 0.8284168733850129 0.8260811144042681 0.8248079657007688 0.8257805774896878 0.8250169258054981 0.824873522626442 0.8255364485981307 0.824899318985849 0.8262676467153284 0.8253081384388807 0.8252752856301533 0.825048202479339 0.8256467597765362 0.8251467981165391 0.8247511884144523 0.8250190397447055 0.77869624430956 0.7766421612284069 0.8261790521047985 0.8242800089445439 0.8235220443786984 0.8260555995167624 0.826135848603184 0.825221931884909 0.8261090802577623 0.8256589493933116 0.8256099941673958 0.8276919242068155 0.8272308781051416 0.8275109204052098 0.8262744385964912 0.8275746699478864 0.8254243610366399 0.8268033795749705 0.826242747510252 0.8244240307328606 0.8283929030390739 0.8243645695561513 0.8244298989898989

Citrobacter\_murliniae 0.8630839797869435 0.8636498293067228 0.8628590954248365 0.8184053415061295 0.8629953333333334 0.8670407084910763 0.863265173878418 0.862639474909467 0.8628168560905026 0.8628106421052631 0.8311788192987715 0.8195008676599476 1.0 0.8640889668769716 0.863527622322137 0.8133663186813186 0.8627364223569736 0.8134048077514612 0.8621817563291141 0.8641155925925926 0.8198273099078341 0.8628583843137255 0.8619449449368789 0.8651905735528413 0.8656773112098248 0.8627158170280277 0.8626192936507937 0.8620769792207792 0.8623308496732025 0.8641429569327732 0.8634321682590235 0.8639497601476015 0.8633899601699416 0.8624834222107172 0.8622024434624384 0.8639022643008474 0.8624166285714285 0.7687362343938784 0.7687318445428916 0.8636323987538941 0.8627613970007894 0.863273998940678 0.8636996795550848 0.8641719353128313 0.8631235417761429 0.8621558980392157 0.8638177502606884 0.8630633412572637 0.8634004962845012 0.8629025065342394 0.8628763581699346 0.862293118251251 0.8629554272275936 0.8624876323413222 0.8626515895953756 0.8635818979645784 0.8621761688140941 0.8630321197668256 0.8624425883603509 0.8627873443656422

Citrobacter\_pasteurii 0.8866476892001077 0.8934772192936216 0.9011150881168177 0.8220043834808257 0.9001363478935126 0.8649231205298014 0.9010843244639628 0.8943083196300102 0.9011266692170365 0.901055778458397 0.8345231655315369 0.8238661409198115 0.8661653212216958 1.0 0.8925518983675619 0.8197225356679637 0.8921265225366877 0.8183878051029819 0.9030023957032225 0.8953066657894736 0.8243361103089807 0.9011114979859014 0.8874218552390908 0.9470866916203816 0.8952293946540881 0.9011123899210994 0.9009890193581254 0.894607922901344 0.9022815425264217 0.9005450442017682 0.900372135770235 0.9000071297268908 0.9002406462585033 0.9007684354595682 0.9016945910828025 0.894075703145308 0.901816718000505 0.7712905141700404 0.7712938841636292 0.9008371406844106 0.9016041067813764 0.9002974395632961 0.8926183644112946 0.8929387886048988 0.9000822970550576 0.9011255145929339 0.8928579738058552 0.901214784273679 0.9013291255144033 0.9009669135802468 0.9011830573087604 0.9005458387013655 0.9010451718039414 0.9022267938931298 0.9022851686533098 0.9013127897539945 0.9008058311888831 0.9010388541935485 0.9005154934725849 0.9017097731283086

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Citrobacter\_werkmanii 0.9917133922018349 0.9074290813779331 0.9050804015865147 0.8218952799535828 0.905457052737825 0.8631007063784923 0.905568452289588 0.9085529393049439 0.9055359641701916 0.9056779328358211 0.836479460355743 0.8261958045467965 0.8631512587038028 0.8869591192660551 0.9061937707808565 0.821339458372021 0.9069684887218046 0.8213352473763118 0.905291589089089 0.9082786452762923 0.825951467057101 0.9050963717472119 1.0 0.8872350193548387 0.9072821353228712 0.9054541116116116 0.9054114117647061 0.9094196403402188 0.9058274968490043 0.9049559841917391 0.9056384949832778 0.9044263297325101 0.9055598712667354 0.904576097806907 0.9055055839325564 0.9069941565349542 0.9079204773502191 0.7730183005507475 0.7729867453758362 0.9059734167298459 0.905554441919192 0.9056794761904763 0.9063495764225568 0.9063130656370656 0.9044588227911647 0.905442142316427 0.9053037693459811 0.9054538944723619 0.9051918851214574 0.9052029858173674 0.9050512397311427 0.9054484913151366 0.9048211868186323 0.9060645678092399 0.9055533569261881 0.9056312893477716 0.9049208013062046 0.9052868795758647 0.9054149336338593 0.9055602613065327

Citrobacter\_youngae 0.8881121874184286 0.8976023036785808 0.9079242305751767 0.8211448039215686 0.9069430572094227 0.8653245240641713 0.9083525375494071 0.8968835668626952 0.9071362726576462 0.9071357518509063 0.8349694041916169 0.8255097756126366 0.8670251220806795 0.948200496350365 0.8978091546018615 0.8188267901234568 0.8967953736006249 0.8188132008626002 0.9080073371104815 0.8977947077409162 0.8239923099587507 0.9079257467204843 0.8880421172217918 1.0 0.8972410727464418 0.9079493992395438 0.9078428466413182 0.8972306287878788 0.9080333531848784 0.9088263960447567 0.9073761264308012 0.9081923172014729 0.9073864147993745 0.9083288348271447 0.9076751327433629 0.8977494162105812 0.9083859835009024 0.7721851556813587 0.7721847634452084 0.907926454755191 0.9080587682832948 0.9077970266081115 0.8973436459430981 0.8972402274509804 0.9068836045314109 0.9083257860824743 0.8973529162410623 0.9085117740286299 0.9080342638672887 0.9075437591888468 0.9076654049923587 0.907563995869902 0.9076836389101095 0.9089740883697308 0.9095584805293969 0.9096764305804144 0.9079271121351766 0.9090220249936242 0.9078545324675326 0.9081799872090048

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