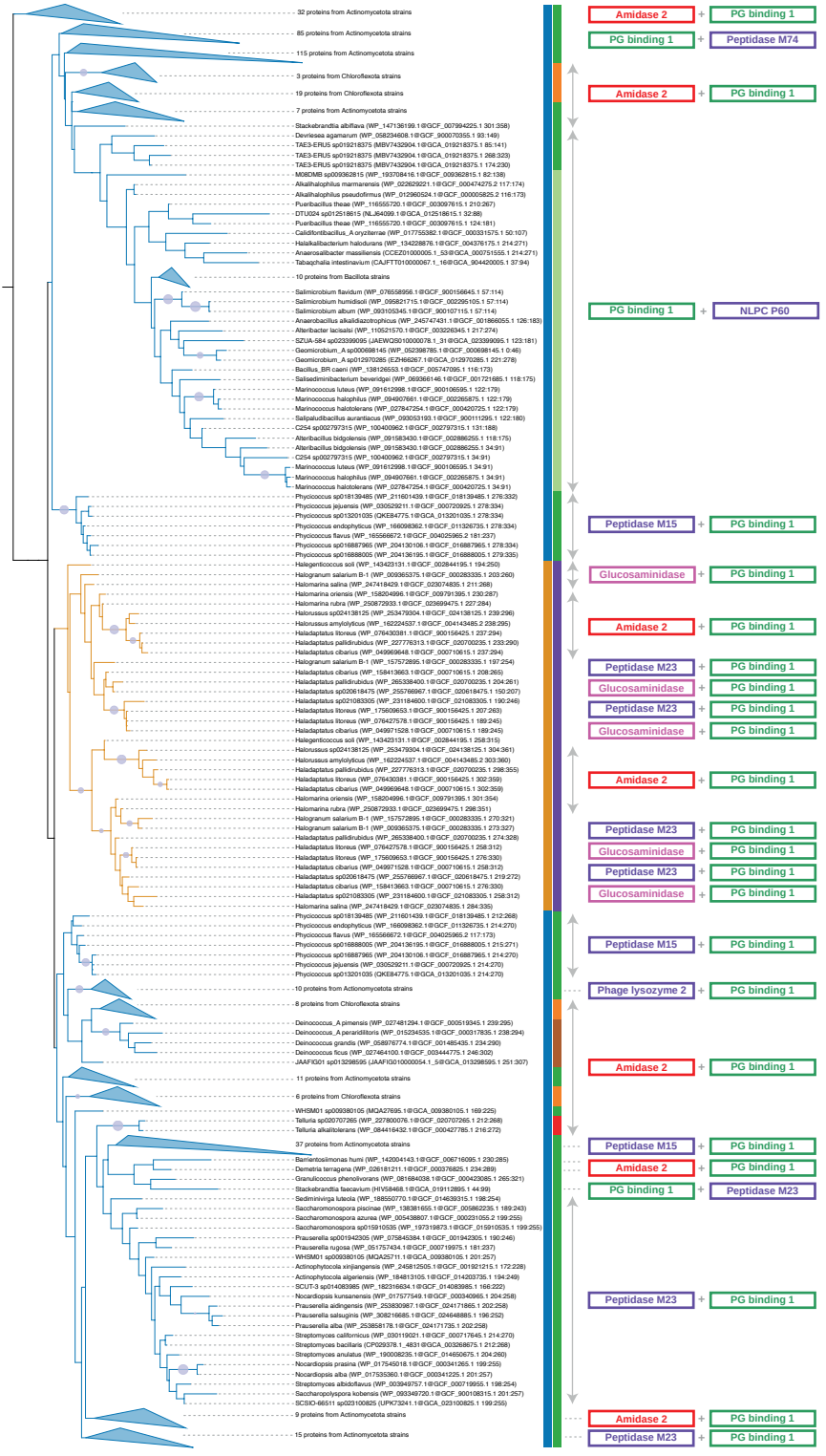
32 proteins from Actinomycetota strains
85 proteins from Actinomycetota strains
115 proteins from Actinomycetota strains
3 proteins from Chloroflexota strains
19 proteins from Chloroflexota strains
7 proteins from Actinomycetota strains
Stackebrandtia albiflava (WP_147136199.1@GCF_007994225.1 301:358)
Devriesea agamarum (WP_058234608.1@GCF_900070355.1 93:149)
TAE3-ERUS sp019218375 (MBV7432904.1@GCA_019218375.1 85:141)
TAE3-ERUS sp019218375 (MBV7432904.1@GCA_019218375.1 268:323)
TAE3-ERUS sp019218375 (MBV7432904.1@GCA_019218375.1 174:230)
MO8DMB sp009362815 (WP_193708416.1@GCF_009362815.1 82:138)
Alkalihalophilus marmarensis (WP_022629221.1@GCF_000474275.2 117:174)
Alkalihalophilus pseudofirmus (WP_012960524.1@GCF_000005825.2 116:173)
Pueribacillus theae (WP_116555720.1@GCF_003097615.1 210:267)
DTU024 sp012518615 (NL84099.1@GCA_012518615.1 32:88)
Pueribacillus theae (WP_116555720.1@GCF_003097615.1 124:181)
Calidifontibacillus_A oryzitenae (WP_017753382.1@GCF_000331575.1 50:107)
Halalkalibacterium halodurans (WP_134228876.1@GCF_004376175.1 214:271)
Anaerosalbacter massiliensis (CCEZ01000005.1_53@GCA_000751555.1 214:271)
Tabaqchala intestinavium (CAJFTT01000067.1_16@GCA_904420005.1 37:94)
10 proteins from Bacillota strains
Salimicrobium flavidum (WP_076558956.1@GCF_900156645.1 57:114)
Salimicrobium humidiaoli (WP_095821715.1@GCF_002295105.1 57:114)
Salimicrobium album (WP_093105345.1@GCF_900107115.1 57:114)
Anaerobacillus alkalidiazotrophicus (WP_245747431.1@GCF_001866055.1 126:183)
Ateribacter lacisalsi (WP_110521570.1@GCF_003226345.1 217:274)
SZUA-584 sp023399095 (JAEWJ2501000008.1_31@GCA_023399095.1 123:181)
Geomicrobium_A sp000688145 (WP_052398785.1@GCF_000688145.1 0:46)
Geomicrobium_A sp012970285 (EZH66267.1@GCA_012970285.1 221:278)
Bacillus_BR caeni (WP_138126553.1@GCF_005747095.1 116:173)
Salisediminibacterium beveridgei (WP_069366146.1@GCF_001721685.1 118:175)
Marinococcus luteus (WP_091612998.1@GCF_900106595.1 122:179)
Marinococcus halophilus (WP_094907661.1@GCF_002265875.1 122:179)
Marinococcus halotolerans (WP_027847254.1@GCF_000420725.1 122:179)
Salipaludibacillus aurantiacus (WP_093053193.1@GCF_900111295.1 122:180)
C254 sp002797315 (WP_100400962.1@GCF_002797315.1 131:188)
Ateribacillus bidgoleensis (WP_091583430.1@GCF_002886255.1 118:175)
Ateribacillus bidgoleensis (WP_091583430.1@GCF_002886255.1 34:91)
C254 sp002797315 (WP_100400962.1@GCF_002797315.1 34:91)
Marinococcus luteus (WP_091612998.1@GCF_900106595.1 34:91)
Marinococcus halophilus (WP_094907661.1@GCF_002265875.1 34:91)
Marinococcus halotolerans (WP_027847254.1@GCF_000420725.1 34:91)
Phycicoccus sp018139485 (WP_211601439.1@GCF_018139485.1 276:332)
Phycicoccus jejuensis (WP_030529211.1@GCF_000720925.1 278:334)
Phycicoccus sp013201035 (QKE84775.1@GCA_013201035.1 278:334)
Phycicoccus endophyticus (WP_166098362.1@GCF_011326735.1 278:334)
Phycicoccus flavus (WP_165566672.1@GCF_004025965.2 181:237)
Phycicoccus sp016887965 (WP_204130106.1@GCF_016887965.1 278:334)
Phycicoccus sp016888005 (WP_204136195.1@GCF_016888005.1 279:335)
Halagereticoccus soli (WP_143423131.1@GCF_002844195.1 194:250)
Halogranum salarium B-1 (WP_009965375.1@GCF_000283335.1 203:260)
Halomarina salina (WP_247418429.1@GCF_023074835.1 211:268)
Halomarina oriensis (WP_158204996.1@GCF_009791395.1 230:287)
Halomarina rubra (WP_250872933.1@GCF_023699475.1 227:284)
Halorussus sp024138125 (WP_253479304.1@GCF_024138125.1 239:296)
Halorussus amylolyticus (WP_162224537.1@GCF_004143485.2 238:295)
Haladaptatus litoreus (WP_076430381.1@GCF_900156425.1 237:294)
Haladaptatus paucihalophilus (WP_227776313.1@GCF_002070235.1 233:290)
Haladaptatus cibarius (WP_049969648.1@GCF_000710615.1 237:294)
Halogranum salarium B-1 (WP_157572895.1@GCF_000283335.1 197:254)
Haladaptatus cibarius (WP_158413663.1@GCF_000710615.1 208:265)
Haladaptatus paucihalophilus (WP_265338400.1@GCF_002070235.1 204:261)
Haladaptatus sp020618475 (WP_255766967.1@GCF_020618475.1 150:207)
Haladaptatus sp021083305 (WP_231184600.1@GCF_021083305.1 190:246)
Haladaptatus litoreus (WP_175609653.1@GCF_900156425.1 207:263)
Haladaptatus litoreus (WP_076427578.1@GCF_900156425.1 189:245)
Haladaptatus cibarius (WP_049971528.1@GCF_000710615.1 189:245)
Haloferacaceae soil (WP_143423131.1@GCF_002844195.1 258:315)
Halorussus sp024138125 (WP_253479304.1@GCF_024138125.1 304:361)
Halorussus amylolyticus (WP_162224537.1@GCF_004143485.2 303:360)
Haladaptatus paucihalophilus (WP_227776313.1@GCF_002070235.1 298:355)
Haladaptatus litoreus (WP_076430381.1@GCF_900156425.1 302:359)
Haladaptatus cibarius (WP_049969648.1@GCF_000710615.1 302:359)
Halomarina oriensis (WP_158204996.1@GCF_009791395.1 301:354)
Halomarina rubra (WP_250872933.1@GCF_023699475.1 298:351)
Halogranum salarium B-1 (WP_157572895.1@GCF_000283335.1 270:321)
Halogranum salarium B-1 (WP_009965375.1@GCF_000283335.1 273:327)
Haladaptatus paucihalophilus (WP_265338400.1@GCF_002070235.1 274:328)
Haladaptatus litoreus (WP_076427578.1@GCF_900156425.1 258:312)
Haladaptatus litoreus (WP_175609653.1@GCF_900156425.1 276:330)
Haladaptatus cibarius (WP_049971528.1@GCF_000710615.1 258:312)
Haladaptatus sp020618475 (WP_255766967.1@GCF_020618475.1 219:272)
Haladaptatus cibarius (WP_158413663.1@GCF_000710615.1 276:330)
Haladaptatus sp021083305 (WP_231184600.1@GCF_021083305.1 258:312)
Halomarina salina (WP_247418429.1@GCF_023074835.1 284:335)
Phycicoccus sp018139485 (WP_211601439.1@GCF_018139485.1 212:268)
Phycicoccus endophyticus (WP_166098362.1@GCF_011326735.1 214:270)
Phycicoccus flavus (WP_165566672.1@GCF_004025965.2 117:173)
Phycicoccus sp016888005 (WP_204136195.1@GCF_016888005.1 215:271)
Phycicoccus sp016887965 (WP_204130106.1@GCF_016887965.1 214:270)
Phycicoccus jejuensis (WP_030529211.1@GCF_000720925.1 214:270)
Phycicoccus sp013201035 (QKE84775.1@GCA_013201035.1 214:270)
10 proteins from Actinomycetota strains
8 proteins from Chloroflexota strains
Deinococcus_A pimensis (WP_027481294.1@GCF_000519345.1 239:295)
Deinococcus_A peraridilitoris (WP_015234535.1@GCF_000317835.1 238:294)
Deinococcus grandis (WP_058976774.1@GCF_001485435.1 234:290)
Deinococcus ficus (WP_027464100.1@GCF_003444775.1 246:302)
JAAFI301 sp013298595 (JAAFIG010000054.1_5@GCA_013298595.1 251:307)
11 proteins from Actinomycetota strains
6 proteins from Chloroflexota strains
WHSM01 sp009380105 (MQA27695.1@GCA_009380105.1 169:225)
Telluria sp020707265 (WP_227800076.1@GCF_020707265.1 212:268)
Telluria alkaltolerans (WP_084416432.1@GCF_000427785.1 216:272)
37 proteins from Actinomycetota strains
Barrientosimonas humi (WP_142004143.1@GCF_006716095.1 230:285)
Demetria terragena (WP_026181211.1@GCF_000376825.1 234:289)
Granulicoccus phenoliverorans (WP_081684038.1@GCF_000423085.1 265:321)
Stackebrandtia faecavium (HIV58468.1@GCA_019112895.1 44:99)
Sediminivirga luteola (WP_188550770.1@GCF_014639315.1 198:254)
Saccharomonospora piscinae (WP_138381655.1@GCF_005862035.1 189:243)
Saccharomonospora azurea (WP_005438807.1@GCF_000231055.2 199:255)
Saccharomonospora sp015910535 (WP_197319873.1@GCF_015910535.1 199:255)
Prauserella sp001942305 (WP_075845384.1@GCF_001942305.1 190:246)
Prauserella rugosa (WP_051757434.1@GCF_000719975.1 181:237)
WHSM01 sp009380105 (MQA25711.1@GCA_009380105.1 201:257)
Actinophytocola xinjiangensis (WP_245812505.1@GCF_001921215.1 172:228)
Actinophytocola algeriensis (WP_184813105.1@GCF_014203735.1 194:249)
SCUT-3 sp014083985 (WP_182316634.1@GCF_014083985.1 166:222)
Nocardiopsis kunsanensis (WP_017577549.1@GCF_000340965.1 204:258)
Prauserella aidingensis (WP_253830987.1@GCF_024171865.1 202:258)
Prauserella salsuginis (WP_208216685.1@GCF_024648885.1 196:252)
Prauserella alba (WP_253858178.1@GCF_024171735.1 202:258)
Streptomyces californicus (WP_030119021.1@GCF_000717645.1 214:270)
Streptomyces bacillaris (CPI029378.1_4831@GCA_003268675.1 212:268)
Streptomyces anulatus (WP_190008235.1@GCF_014650675.1 204:260)
Nocardiopsis prasina (WP_017545018.1@GCF_000341265.1 199:255)
Nocardiopsis alba (WP_017535360.1@GCF_000341225.1 201:257)
Streptomyces albidoflavus (WP_003949757.1@GCF_000716955.1 198:254)
Saccharopolyspora lobansis (WP_093349720.1@GCF_900108315.1 201:257)
SCSIO-66511 sp023100825 (UPK73241.1@GCA_023100825.1 199:255)
9 proteins from Actinomycetota strains
15 proteins from Actinomycetota strains
Amidase 2 + PG binding 1
PG binding 1 + Peptidase M74
Amidase 2 + PG binding 1
PG binding 1 + NLPC P60
Peptidase M15 + PG binding 1
Glucosaminidase + PG binding 1
Amidase 2 + PG binding 1
Peptidase M23 + PG binding 1
Glucosaminidase + PG binding 1
Peptidase M23 + PG binding 1
Glucosaminidase + PG binding 1
Amidase 2 + PG binding 1
Peptidase M23 + PG binding 1
Glucosaminidase + PG binding 1
Peptidase M23 + PG binding 1
Glucosaminidase + PG binding 1
Peptidase M15 + PG binding 1
Phage lysozyme 2 + PG binding 1
Amidase 2 + PG binding 1
Peptidase M15 + PG binding 1
Amidase 2 + PG binding 1
PG binding 1 + Peptidase M23
Peptidase M23 + PG binding 1
Amidase 2 + PG binding 1
Peptidase M23 + PG binding 1
Domain
Archaea
Bacteria
Phylum
Actinomycetota
Bacillota
Chloroflexota
Deinococcota
Halobacteriota
Pseudomonata
Tree scale: 1
Bootstrap (UFBoot)
95+