



H045_21505
H045_16335
H045_14955
H045_06745
H045_16750
H045_02550
H045_13125
H045_12990
H045_08280
H045_19165
H045_22300
H045_02570
H045_15635
H045_12120
H045_01520
H045_00105
H045_18235
H045_12935
H045_07675
H045_15520
H045_15760
H045_03910
H045_20555
H045_12315_1
H045_04795
H045_14675
H045_10105
H045_21150
H045_10820
H045_14660
H045_00945
H045_06705
H045_06545
H045_09360
H045_06580
H045_13280
H045_08585
H045_15350
H045_08160
H045_12855
H045_22595
H045_18540
H045_15670
H045_05445
H045_22185
H045_12315_2
H045_07435
H045_10875
H045_07845
H045_08620
H045_04015
H045_10285
H045_23835
H045_11095
H045_08570
H045_17380
H045_09120
H045_05390
H045_05040
H045_08120
H045_07665
H045_04020
H045_06395
H045_05055



Orphan
Pair
Triad
Tetrad
Pentad+

Cluster

Family

Domains

Classic

1 HAMP,1 PAS_4,1 HisKA,1 HATPase_c

Classic

1 PAS_2,1 GAF,1 PHY,1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Classic

1 PAS,1 HisKA,1 HATPase_c

Classic

1 PAS,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

CheA

1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW

CheA

1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW

CheA

6 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg

Classic

1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 SBP_bac_3,1 PAS_4,1 HisKA_3,1 HATPase_c

Classic

1 HisKA_3,1 HATPase_c

Classic

1 HAMP,1 PAS,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 2CSK_N,1 HAMP,1 HisKA,1 HATPase_c

Classic

1 PAS,1 HisKA,1 HATPase_c

Hybrid

2 HisKA,2 HATPase_c,2 Response_reg,1 PAC

Classic

1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HisKA,1 HATPase_c

Hybrid

1 CheB_methylest,1 MeTrc,2 PAS,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 PAS,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 Response_reg,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 PAS,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Classic

1 HAMP,1 HisKA,1 HATPase_c

Hybrid

2 HisKA,2 HATPase_c,2 Response_reg,1 PAC

Hybrid

1 PAS_4,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 PAS,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c

Hybrid

2 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 MASE1,1 HisKA,1 HATPase_c,2 Response_reg

Unorthodox

1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt

Hybrid

1 CHASE3,1 GAF,1 HisKA,1 HATPase_c,3 Response_reg

Hybrid

1 HisKA,1 HATPase_c,1 Response_reg

Unorthodox

2 PBPb,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt

Hybrid

1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg

Hybrid

1 HisKA,1 HATPase_c,1 Response_reg

Classic

1 PAS,1 HisKA,1 HATPase_c

Hybrid

1 CHASE3,1 HAMP,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg

Classic

1 HisKA,1 HATPase_c

Unorthodox

2 PBPb,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt

Unorthodox

1 PBPb,1 SBP_bac_3,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt