



PA1S_gp3291
 PA1S_gp2280
 PA1S_gp0913
 PA1S_gp1924
 PA1S_gp3418
 PA1S_gp1865
 PA1S_gp5216
 PA1S_gp2450
 PA1S_gp4710
 PA1S_gp3974
 PA1S_gp3051
 PA1S_gp5421
 PA1S_gp4769
 PA1S_gp1993
 PA1S_gp2693
 PA1S_gp0276
 PA1S_gp4249
 PA1S_gp4790
 PA1S_gp0457
 PA1S_gp2394
 PA1S_gp2808
 PA1S_gp0631
 PA1S_gp0318
 PA1S_gp5644
 PA1S_gp1106
 PA1S_gp5660
 PA1S_gp4987
 PA1S_gp3132
 PA1S_gp1022
 PA1S_gp1037
 PA1S_gp2008
 PA1S_gp4456
 PA1S_gp0495
 PA1S_gp5647
 PA1S_gp4111
 PA1S_gp1768
 PA1S_gp5040
 PA1S_gp3692
 PA1S_gp3924
 PA1S_gp2298
 PA1S_gp2641
 PA1S_gp2190
 PA1S_gp4944
 PA1S_gp3096
 PA1S_gp3446
 PA1S_gp2088
 PA1S_gp5842
 PA1S_gp4849
 PA1S_gp2777
 PA1S_gp0655
 PA1S_gp5192
 PA1S_gp1303
 PA1S_gp4454
 PA1S_gp2003
 PA1S_gp2905
 PA1S_gp1836
 PA1S_gp0879
 PA1S_gp0381



Cluster	Family	Domains
Orphan	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 CHASE2,1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Hybrid	2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Pair	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_2,1 GAF,1 PHY,1 HisKA,1 HATPase_c
Triad	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 SBP_bac_3,1 PAS_4,1 PAS_3,1 HisKA_3,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA_3,1 HATPase_c
Pair	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Pair	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Pair	CheA	7 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg
Orphan	Classic	1 HAMP,1 PAS,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 PAS_3,1 PAS,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 PAS_4,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 PAS_4,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,2 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Triad	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 CHASE,2 PAS,1 PAS_3,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Triad	Unorthodox	1 PBpb,1 SBP_bac_3,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 PBpb,1 SBP_bac_3,1 HisKA,1 HATPase_c,1 Response_reg