



Sma_1205
 Sma_0447
 Sma_2166
 Sma_3839
 Sma_0823
 Sma_3143
 Sma_0918
 Sma_0471
 Sma_0288
 Sma_1948
 Sma_3435
 Sma_1740
 Sma_2119
 Sma_1791
 Sma_3978
 Sma_3355
 Sma_2060
 Sma_1523
 Sma_0472
 Sma_0122
 Sma_3358
 Sma_2173
 Sma_1189
 Sma_2464
 Sma_1394
 Sma_0230
 Sma_3619
 Sma_1300
 Sma_2991
 Sma_0619
 Sma_0653
 Sma_3180
 Sma_3085
 Sma_1859
 Sma_1852
 Sma_1098
 Sma_0257
 Sma_1913
 Sma_2339
 Sma_3165
 Sma_2138
 Sma_1736
 Sma_1031
 Sma_3433
 Sma_2343
 Sma_0616
 Sma_0420
 Sma_3706
 Sma_1829
 Sma_1737
 Sma_0156
 Sma_0062
 Sma_0738
 Sma_0736
 Sma_3042
 Sma_3041



Orphan
 Pair
 Triad
 Tetrad
 Pentad+

Cluster Family

Domains

Cluster	Family	Domains
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 PAS_3,1 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
Pair	Classic	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 HisKA,1 HATPase_c
Pair	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Triad	Classic	1 CHASE3,1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,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	1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 2CSK_N,1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 2CSK_N,1 HisKA,1 HATPase_c
Pair	Classic	1 2CSK_N,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	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 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	CheA	4 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg
Orphan	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	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	2 PAS,1 PAS_4,1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Triad	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Triad	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Pair	Classic	1 His_kinase,1 HATPase_c
Pair	Classic	1 His_kinase,1 HATPase_c
Pair	Classic	1 His_kinase,1 HATPase_c
Pair	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Triad	Hybrid	1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
Pair	Unorthodox	2 SBP_bac_3,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Tetrad	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Tetrad	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg