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PPE\_04714  
PPE\_00515  
PPE\_02994  
PPE\_02331  
PPE\_01651  
PPE\_00237  
PPE\_03532  
PPE\_00444\_2



Orphan  
Pair  
Triad  
Tetrad  
Pentad+

**Cluster**

**Family**

**Domains**

Cluster	Family	Domains
Orphan	Classic	1 HAMP,1 PAS_4,1 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
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	Hybrid	1 HisKA,2 HATPase_c,1 Response_reg,1 His_kinase
Pair	Classic	1 HisKA,1 HATPase_c
Pair	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Pair	Classic	1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 PAS_4,1 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	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	Classic	3 PAS_3,2 PAS,1 HisKA,1 HATPase_c
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,2 Response_reg
Pair	Hybrid	1 HAMP,1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 PAS_3,1 HisKA_3,1 HATPase_c
Pair	Classic	1 HisKA_3,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 Cache_1,1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Triad	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c
Pair	Classic	1 GAF,1 His_kinase,1 HATPase_c
Pair	Hybrid	1 HisKA,2 HATPase_c,1 Response_reg,1 His_kinase