



A2cp1\_1973  
 A2cp1\_1044  
 A2cp1\_1259  
 A2cp1\_1239  
 A2cp1\_2775  
 A2cp1\_2150  
 A2cp1\_0278  
 A2cp1\_2483  
 A2cp1\_3135  
 A2cp1\_0806  
 A2cp1\_2759  
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 A2cp1\_3996  
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 A2cp1\_3137  
 A2cp1\_3107  
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 A2cp1\_0638  
 A2cp1\_0659  
 A2cp1\_0532  
 A2cp1\_0672  
 A2cp1\_0323  
 A2cp1\_4405  
 A2cp1\_3869  
 A2cp1\_2344  
 A2cp1\_3624  
 A2cp1\_0319  
 A2cp1\_4382  
 A2cp1\_1970  
 A2cp1\_4402  
 A2cp1\_2399  
 A2cp1\_0604  
 A2cp1\_0976  
 A2cp1\_0447  
 A2cp1\_2626  
 A2cp1\_2057  
 A2cp1\_2498  
 A2cp1\_1707  
 A2cp1\_3303  
 A2cp1\_0884  
 A2cp1\_4150  
 A2cp1\_0943  
 A2cp1\_0439  
 A2cp1\_2815  
 A2cp1\_4476  
 A2cp1\_4276  
 A2cp1\_3864  
 A2cp1\_0195  
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 A2cp1\_2991  
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 A2cp1\_4275  
 A2cp1\_3377  
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 A2cp1\_3376  
 A2cp1\_2484  
 A2cp1\_1756  
 A2cp1\_3151  
 A2cp1\_1737  
 A2cp1\_4378  
 A2cp1\_0125  
 A2cp1\_4467  
 A2cp1\_2628  
 A2cp1\_4373  
 A2cp1\_1747  
 A2cp1\_3530  
 A2cp1\_1952  
 A2cp1\_3487  
 A2cp1\_1199  
 A2cp1\_2474  
 A2cp1\_2278  
 A2cp1\_3169  
 A2cp1\_2920  
 A2cp1\_2583  
 A2cp1\_0628  
 A2cp1\_4471  
 A2cp1\_2171  
 A2cp1\_1965  
 A2cp1\_0108  
 A2cp1\_0036  
 A2cp1\_4381  
 A2cp1\_1854  
 A2cp1\_1802  
 A2cp1\_2175

Cluster	Family	Domains
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 Cache_1,1 HAMP,2 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	2 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	2 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 CHASE,1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	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	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	2 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 CHASE,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	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	Classic	1 PAS_4,1 HisKA
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 HAMP,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 AAA_5,1 HTH_8
Orphan	Classic	1 PAS,1 CHASE4,6 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Hybrid	12 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Classic	1 PAS_4,1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,1 PAS_3,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 CheB_methylest,1 MeTrc,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Hybrid	2 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 PAS_3,1 GAF,1 HisKA,1 HATPase_c,1 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	2 Response_reg,1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 GAF,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 Cache_1,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 CHASE4,1 HAMP,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 His_kinase,1 HATPase_c
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Orphan	Classic	1 HAMP,1 HisKA_3,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA_3,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 SBP_bac_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 SBP_bac_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 SBP_bac_3,1 HisKA,1 HATPase_c

- Orphan
- Pair
- Triad
- Tetrad
- Pentad+