



CHU\_2310  
 CHU\_2077  
 CHU\_3541  
 CHU\_3540  
 CHU\_1987  
 CHU\_1131  
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 CHU\_0211  
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 CHU\_0363  
 CHU\_2895  
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 CHU\_3468  
 CHU\_1222  
 CHU\_0223  
 CHU\_1092  
 CHU\_1637  
 CHU\_0675  
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 CHU\_2081  
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 CHU\_0106  
 CHU\_1316  
 CHU\_2197  
 CHU\_3046  
 CHU\_1663  
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 CHU\_1215  
 CHU\_1067  
 CHU\_1237  
 CHU\_3546  
 CHU\_1901  
 CHU\_0150  
 CHU\_3347  
 CHU\_2084

**Cluster**

- Orphan
- Pair
- Triad
- Tetrad
- Pentad+

**Family**

**Domains**

Cluster	Family	Domains
Orphan	Classic	1 GAF,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 Response_reg,1 PAS_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	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	2 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS,1 HisKA,1 HATPase_c
Orphan	Unorthodox	1 CHASE3,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Tetrad	Hybrid	1 CHASE3,1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
Orphan	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Unorthodox	1 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	3 PAS_4,1 PAS,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Classic	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 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Pair	Classic	2 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HAMP,1 PAS,1 HisKA,1 HATPase_c
Triad	Classic	1 GAF,2 PAS_4,1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Tetrad	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS,1 HisKA_3,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA_3,1 HATPase_c
Pair	Classic	1 PAS_3,1 HisKA_3,1 HATPase_c
Orphan	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS_4,1 HisKA,1 HATPase_c
Orphan	Classic	6 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_3,1 PAS,1 HisKA,1 HATPase_c
Orphan	Classic	1 CheB_methylest,1 MeTrc,2 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 CHASE3,1 PAS_3,1 HisKA,1 HATPase_c
Pair	Classic	1 PAS_4,3 PAS_3,1 HisKA,1 HATPase_c
Orphan	Classic	1 PAS_2,1 GAF,1 PHY,1 HisKA,1 HATPase_c
Orphan	Classic	3 PAS_4,2 PAS_3,1 HisKA,1 HATPase_c
Tetrad	Classic	1 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c