



TREPR\_1249  
 TREPR\_1985  
 TREPR\_1986  
 TREPR\_1710  
 TREPR\_2068  
 TREPR\_1258  
 TREPR\_2069  
 TREPR\_1250  
 TREPR\_1254  
 TREPR\_1255  
 TREPR\_1256  
 TREPR\_1251  
 TREPR\_1260  
 TREPR\_3151  
 TREPR\_3504  
 TREPR\_0078  
 TREPR\_2301  
 TREPR\_2903  
 TREPR\_3057  
 TREPR\_0616  
 TREPR\_0698  
 TREPR\_1633  
 TREPR\_0183  
 TREPR\_1586  
 TREPR\_2916  
 TREPR\_0280  
 TREPR\_0917  
 TREPR\_0855  
 TREPR\_3194  
 TREPR\_0969  
 TREPR\_1054  
 TREPR\_2451  
 TREPR\_1879  
 TREPR\_0685  
 TREPR\_0161  
 TREPR\_2972  
 TREPR\_0581  
 TREPR\_2705  
 TREPR\_3348  
 TREPR\_3523  
 TREPR\_1861  
 TREPR\_3165  
 TREPR\_2228  
 TREPR\_3005

Orphan  
 Pair  
 Triad  
 Tetrad  
 Pentad+

**Cluster**

**Family**

**Domains**

Cluster	Family	Domains
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Triad	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pentad+	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Triad	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pentad+	Unorthodox	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pentad+	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pentad+	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 Cache_1,1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
Pair	Unorthodox	2 Response_reg,1 HisKA,1 HATPase_c,1 Hpt
Orphan	Unorthodox	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 PAS_4,1 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
Orphan	Hybrid	1 HAMP,2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 SBP_bac_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 SBP_bac_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 GAF,1 HisKA,1 HATPase_c,2 Response_reg,1 Hemerythrin
Orphan	Hybrid	1 HisKA,1 HATPase_c,2 Response_reg
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg
Orphan	Hybrid	1 GAF,1 HisKA,1 HATPase_c,2 Response_reg
Orphan	Hybrid	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HisKA,1 HATPase_c
Orphan	CheA	1 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 HisKA,1 HATPase_c
Pair	Classic	1 GAF,1 HisKA,3,1 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 PAS_4,1 HisKA,1 HATPase_c
Pair	Classic	1 HAMP,1 His_kinase,1 HATPase_c