



Shewmri\_3232  
 Shewmri\_1175  
 Shewmri\_1887\_2  
 Shewmri\_3307\_1  
 Shewmri\_1880  
 Shewmri\_3547\_1  
 Shewmri\_3481\_2  
 Shewmri\_1367  
 Shewmri\_3548  
 Shewmri\_3307\_2  
 Shewmri\_3453\_2  
 Shewmri\_3549  
 Shewmri\_3231  
 Shewmri\_3306  
 Shewmri\_3547\_2  
 Shewmri\_1887\_1  
 Shewmri\_1114  
 Shewmri\_3485  
 Shewmri\_0877  
 Shewmri\_0426  
 Shewmri\_3486  
 Shewmri\_3458  
 Shewmri\_2753  
 Shewmri\_1424  
 Shewmri\_3764  
 Shewmri\_1222  
 Shewmri\_0322  
 Shewmri\_3365  
 Shewmri\_2299  
 Shewmri\_1614  
 Shewmri\_1663  
 Shewmri\_0664  
 Shewmri\_2502  
 Shewmri\_0055  
 Shewmri\_1886  
 Shewmri\_1370  
 Shewmri\_2433  
 Shewmri\_0663  
 Shewmri\_3156  
 Shewmri\_0436  
 Shewmri\_3966  
 Shewmri\_2279  
 Shewmri\_3481\_1  
 Shewmri\_1971  
 Shewmri\_3453\_1  
 Shewmri\_1437  
 Shewmri\_1327  
 Shewmri\_2344  
 Shewmri\_2074  
 Shewmri\_0051  
 Shewmri\_3740  
 Shewmri\_3204  
 Shewmri\_3087  
 Shewmri\_1379  
 Shewmri\_1347  
 Shewmri\_3902  
 Shewmri\_0669  
 Shewmri\_2777  
 Shewmri\_3769  
 Shewmri\_3371  
 Shewmri\_1112  
 Shewmri\_3781  
 Shewmri\_3414  
 Shewmri\_2150  
 Shewmri\_3908  
 Shewmri\_1655



Orphan  
 Pair  
 Triad  
 Tetrad  
 Pentad+

**Cluster**

**Family**

**Domains**

Cluster	Family	Domains
Orphan	Unorthodox	2 MHYT,1 PAS,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	PleD	1 Hpt,2 Response_reg,1 GGDEF
Pair	Unorthodox	1 Cache_1,1 HAMP,2 PAS,2 PAS_3,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Triad	CheY	1 Response_reg
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	FrzZ	2 Response_reg
Orphan	CheY	1 Response_reg
Orphan	Unorthodox	1 SBP_bac_3,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Pair	Unorthodox	1 Cache_1,1 HAMP,2 PAS,2 PAS_3,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	Hybrid	1 Cache_1,1 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,2 Response_reg
Pair	RpfG	1 Response_reg,1 HD
Pair	RpfG	1 Response_reg,1 HD
Pair	RpfG	1 Response_reg,1 HD
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	PleD	1 Hpt,2 Response_reg,1 GGDEF
Orphan	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Triad	PleD_VieA	1 Response_reg,1 GGDEF,1 EAL
Pair	CitT	1 Response_reg,1 CitT,1 HTH_11
Pair	PrrA	1 Response_reg,1 HTH_8
Triad	CheY	1 Response_reg
Orphan	unclassified	1 Response_reg
Pair	PrrA	1 Response_reg,1 HTH_8
Pair	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Pair	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Orphan	NarL	1 Response_reg,1 GerE
Orphan	NarL	1 Response_reg,1 HTH_LUXR
Orphan	NarL	1 Response_reg,1 HTH_LUXR
Pair	LytTR	1 Response_reg,1 LytTR
Pair	LytTR	1 Response_reg,1 LytTR
Orphan	CheB	1 Response_reg,1 CheB_methylest
Pair	CheB	1 Response_reg,1 CheB_methylest
Orphan	Hybrid	1 PAS,1 HisKA,1 HATPase_c,1 REC
Orphan	Hybrid	1 PAS,1 HisKA,1 HATPase_c,1 REC
Pair	PrrA	1 Response_reg,1 HTH_8
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	FrzZ	2 Response_reg
Orphan	RpfG	1 Response_reg,1 HD
Orphan	Hybrid	1 Cache_1,1 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,2 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	unclassified	1 Response_reg
Pair	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	OmpR	1 Response_reg,1 Trans_reg_C