



Desmer\_4075  
 Desmer\_3599  
 Desmer\_4409  
 Desmer\_1317  
 Desmer\_1851  
 Desmer\_3594\_1  
 Desmer\_3567\_1  
 Desmer\_4171  
 Desmer\_2914  
 Desmer\_1345  
 Desmer\_0421  
 Desmer\_0423  
 Desmer\_3594\_2  
 Desmer\_0354  
 Desmer\_3567\_2  
 Desmer\_1963  
 Desmer\_1891  
 Desmer\_3920  
 Desmer\_2559  
 Desmer\_4374  
 Desmer\_3256  
 Desmer\_2319  
 Desmer\_3907  
 Desmer\_1020  
 Desmer\_4124  
 Desmer\_2022  
 Desmer\_3592  
 Desmer\_2527  
 Desmer\_4582  
 Desmer\_3121  
 Desmer\_1746  
 Desmer\_4091  
 Desmer\_2360  
 Desmer\_0886  
 Desmer\_0582  
 Desmer\_2850  
 Desmer\_1954  
 Desmer\_1950  
 Desmer\_3173  
 Desmer\_1087  
 Desmer\_1346  
 Desmer\_2644  
 Desmer\_1042  
 Desmer\_1139  
 Desmer\_3798  
 Desmer\_3613  
 Desmer\_3468  
 Desmer\_1693  
 Desmer\_0674  
 Desmer\_0644  
 Desmer\_1656  
 Desmer\_1401  
 Desmer\_3571  
 Desmer\_2496  
 Desmer\_0443  
 Desmer\_3712  
 Desmer\_0637  
 Desmer\_2317  
 Desmer\_3835  
 Desmer\_1786  
 Desmer\_0416  
 Desmer\_2989  
 Desmer\_4273  
 Desmer\_2853  
 Desmer\_1388  
 Desmer\_3085  
 Desmer\_3963  
 Desmer\_1102  
 Desmer\_4170  
 Desmer\_3593  
 Desmer\_4428  
 Desmer\_3969  
 Desmer\_2010  
 Desmer\_1981  
 Desmer\_3566

Cluster	Family	Domains
Orphan	CheV	1 CheW,1 Response_reg
Orphan	PleD	1 Response_reg,1 GGDEF
Pair	IclR	1 Response_reg,1 HTH_IclR
Orphan	LytTR	1 Response_reg,1 LytTR
Pair	OmpR	1 Response_reg,1 Trans_reg_C
Pair	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg
Pair	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	Unorthodox	1 S_TKc,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	Hybrid	1 PAS_4,2 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Pair	Hybrid	1 HisKA,2 HATPase_c,1 Response_reg,1 His_kinase
Orphan	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 Response_reg,1 PAS,1 PAS_4,1 HisKA,1 HATPase_c
Pair	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg
Orphan	Hybrid	3 PAS,1 PAS_4,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
Pair	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	CheB	1 Response_reg,1 CheB_methylest
Orphan	CheY	1 Response_reg
Pair	YesN	1 Response_reg,2 HTH_AraC
Pair	YesN	1 Response_reg,2 HTH_AraC
Orphan	YesN	1 Response_reg,2 HTH_AraC
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Orphan	NarL	1 Response_reg,1 HTH_LUXR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Pair	AmiR_NasR	1 Response_reg,1 ANTAR
Pair	NarL	1 Response_reg,1 HTH_LUXR
Pair	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	AmiR_NasR	1 REC,1 ANTAR
Orphan	CheY	1 REC
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Pair	CheY	1 Response_reg
Pair	CheY	1 Response_reg
Pair	LytTR	1 Response_reg,1 LytTR
Pair	LytTR	1 Response_reg,1 LytTR
Orphan	unclassified	1 Response_reg
Orphan	Spo0A	1 Response_reg,1 Spo0A_C
Orphan	Spo0A	1 Response_reg,1 Spo0A_C
Pair	CheY	1 Response_reg
Pair	NtrC	1 Response_reg,1 AAA,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
Orphan	NtrC	1 Response_reg,1 AAA_5,1 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	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
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
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
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
Pair	PleD_VieA	1 Response_reg,1 GGDEF,1 EAL
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
Pair	RpfG	1 Response_reg,1 HD