



DVU0976  
 DVU0749  
 DVU2968  
 DVU2937  
 DVU0619  
 DVU2677\_1  
 DVU0111\_1  
 DVU0636\_1  
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 DVU3062\_2  
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 DVU1083  
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 DVU0636\_2  
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 DVU0530  
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 DVU0140  
 DVU1419  
 DVU2966  
 DVU2963  
 DVU3238

**Cluster**

**Family**

**Domains**

- Orphan
- Pair
- Triad
- Tetrad
- Pentad+

Orphan	unclassified	1 Response_reg
Orphan	LytTR	1 Response_reg,1 LytTR
Orphan	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Orphan	VieB	1 Response_reg,2 TPR_1
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	FrzZ	2 Response_reg
Orphan	PleD	2 Response_reg,1 GGDEF
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	CheV	1 CheW,1 Response_reg
Orphan	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	Unorthodox	1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
Orphan	unclassified	1 Response_reg,1 Hpt
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	CheY	1 Response_reg
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	FrzZ	2 Response_reg
Orphan	PleD	2 Response_reg,1 GGDEF
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	NtrC	1 Response_reg,1 AAA,1 HTH_8
Orphan	LytTR	1 Response_reg,1 LytTR
Orphan	CheY	1 Response_reg
Orphan	unclassified	1 Response_reg
Orphan	RpfG	1 Response_reg,1 HDOD
Orphan	RpfG	1 Response_reg,1 PAS_4,1 HD
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	Hybrid	3 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	NtrC	1 Response_reg,1 AAA,1 HTH_8
Orphan	Hybrid	1 PAS_3,2 PAS,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 Cache_1,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 CheB_methylest,1 MeTrc,1 PAS,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 PAS_4,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
Orphan	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
Orphan	Unorthodox	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
Orphan	unclassified	1 Response_reg,1 PAS,1 PAS_4
Orphan	PleD	1 Response_reg,1 GGDEF
Orphan	RsbU	1 Response_reg,1 SpoII
Orphan	NarL	1 Response_reg,1 HTH_LUXR
Orphan	NarL	1 Response_reg,1 HTH_LUXR
Orphan	CheB	1 Response_reg,1 CheB_methylest
Orphan	CheB	1 Response_reg,1 CheB_methylest
Orphan	unclassified	1 Response_reg,1 AAA_5
Orphan	unclassified	1 Response_reg,1 AAA
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	unclassified	1 Response_reg,1 AAA_5
Orphan	unclassified	1 Response_reg
Orphan	Hybrid	1 PAS,1 GAF,1 HisKA,1 HATPase_c,1 REC
Orphan	CheY	1 Response_reg
Orphan	RpfG	1 REC,1 HD
Orphan	Hybrid	1 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
Orphan	NtrC	1 Response_reg,1 AAA,1 HTH_8
Orphan	unclassified	1 Response_reg
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	unclassified	1 Response_reg,1 AAA
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	RpfG	1 Response_reg,1 HD
Orphan	PleD_VieA	1 Response_reg,1 PAS_4,1 GGDEF,1 EAL
Orphan	Hybrid	1 Response_reg,1 PAS_3,1 HisKA,1 HATPase_c
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	CheY	1 Response_reg
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_2,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	Hybrid	1 Response_reg,1 PAS,1 HisKA,2,1 HATPase_c
Orphan	OmpR	1 Response_reg,1 Trans_reg_C
Orphan	NtrC	1 Response_reg,1 PAS_4,1 AAA_5,1 HTH_8
Orphan	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg
Orphan	NtrC	1 Response_reg,1 AAA_5,1 HTH_8
Orphan	CheY	1 Response_reg
Orphan	CheY	1 Response_reg