



XACM_2801
 XACM_0311
 XACM_1023
 XACM_3845
 XACM_2747
 XACM_0756
 XACM_2125
 XACM_0728
 XACM_3893
 XACM_3375
 XACM_3143
 XACM_0832
 XACM_1196
 XACM_1898
 XACM_0488
 XACM_1259_1
 XACM_2472
 XACM_1256
 XACM_3020
 XACM_1119
 XACM_1935
 XACM_1251_1
 XACM_0211
 XACM_3021
 XACM_1259_3
 XACM_0487
 XACM_2471_2
 XACM_3581
 XACM_2160
 XACM_0879
 XACM_0689
 XACM_0690_1
 XACM_1311
 XACM_1259_2
 XACM_3625
 XACM_3570
 XACM_1900
 XACM_3136
 XACM_0193
 XACM_2017
 XACM_2809
 XACM_2461_2
 XACM_3054
 XACM_2090
 XACM_4065
 XACM_2068
 XACM_2461_1
 XACM_2403
 XACM_1241
 XACM_4050
 XACM_3372
 XACM_2471_1
 XACM_2012
 XACM_1953
 XACM_3046
 XACM_1261
 XACM_3365
 XACM_2082
 XACM_3727_2
 XACM_3537
 XACM_1688
 XACM_1251_2
 XACM_1691
 XACM_1689
 XACM_3017
 XACM_0878
 XACM_1820
 XACM_3727_1
 XACM_3333
 XACM_3623
 XACM_2161
 XACM_0690_2
 XACM_2953
 XACM_2952
 XACM_2951
 XACM_2950
 XACM_1994
 XACM_0114
 XACM_2257
 XACM_1204
 XACM_3614
 XACM_0623
 XACM_2811
 XACM_1910
 XACM_3862
 XACM_2211
 XACM_1585
 XACM_2239
 XACM_1992



Orphan
 Pair
 Triad
 Tetrad
 Pentad+

Cluster

OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 OmpR
 RpfG
 PleD_VieA
 Hybrid
 RpfG
 Hybrid
 CheY
 CheY
 CheY
 Hybrid
 NtrC
 CheY
 Hybrid
 Unorthodox
 Unorthodox
 Hybrid
 Hybrid
 Hybrid
 CheY
 Hybrid
 unclassified
 Hybrid
 NtrC
 Hybrid
 Unorthodox
 NtrC
 NtrC
 PleD_VieA
 VieA
 PleD
 CheY
 LytTR
 Hybrid
 AmiR_NasR
 PleD_VieA
 OmpR
 NarL
 NarL
 Unorthodox
 CheV
 CheY
 CheY
 CheY
 Hybrid
 NarL
 FrzZ
 NtrC
 Hybrid
 Hybrid
 Hybrid
 CheY
 CheA
 CheY
 PrrA
 FrzZ
 RpfG
 unclassified
 unclassified
 Hybrid
 Hybrid
 Hybrid
 Hybrid
 NarL
 NarL
 NarL
 NarL
 LytTR
 LytTR
 CheB
 CheB
 NarL
 NarL
 NarL
 NarL
 CheY

Family

1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 Trans_reg_C
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 1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 HD
 1 Response_reg,1 GGDEF,1 EAL
 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
 1 Response_reg,1 HD
 1 Response_reg,1 HisKA,1 HATPase_c
 1 Response_reg
 1 Response_reg
 2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
 1 Response_reg,1 AAA_5,1 HTH_8
 1 Response_reg
 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
 1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
 1 CHASE,1 PAS_4,1 PAS,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
 2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
 2 GAF,2 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
 1 CHASE3,1 HisKA,1 HATPase_c,1 Response_reg
 1 Response_reg
 2 Response_reg,1 HisKA,1 HATPase_c
 1 Response_reg,1 Hpt
 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
 1 Response_reg,1 AAA_5,1 HTH_8
 1 HisKA,1 HATPase_c,1 Response_reg
 1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt
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 1 Response_reg,1 AAA_5,1 HTH_8
 1 GGDEF,1 EAL,1 Response_reg
 1 Response_reg,1 EAL
 2 Response_reg,1 GGDEF
 1 Response_reg
 1 Response_reg,1 LytTR
 1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
 1 Response_reg,1 ANTAR
 2 Response_reg,1 GGDEF
 1 Response_reg,1 PAS_4,1 GGDEF,1 EAL
 1 Response_reg,1 Trans_reg_C
 1 Response_reg,1 HTH_LUXR
 1 Response_reg,1 HTH_LUXR
 1 CHASE,1 PAS_4,1 PAS,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
 1 CheW,1 Response_reg
 1 Response_reg
 1 Response_reg
 1 Response_reg
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 1 Response_reg,1 GerE
 2 Response_reg
 1 Response_reg,1 AAA_5,1 HTH_8
 2 PAS_4,1 PAS,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
 2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
 1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
 1 Response_reg
 4 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg
 1 Response_reg
 1 Response_reg,1 HTH_8
 2 Response_reg
 1 Response_reg,1 HDOD
 1 REC
 1 REC
 2 Response_reg,1 HisKA,1 HATPase_c
 1 HisKA,1 HATPase_c,1 Response_reg
 1 HisKA,1 HATPase_c,1 Response_reg
 1 HisKA,1 HATPase_c,1 Response_reg
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 1 Response_reg,1 HTH_LUXR
 1 Response_reg,1 LytTR
 1 Response_reg,1 LytTR
 1 Response_reg,1 CheB_methylest
 1 Response_reg,1 CheB_methylest
 1 Response_reg,1 HTH_LUXR
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 1 Response_reg,1 HTH_LUXR
 1 Response_reg