



XCR_4318
XCR_2022
XCR_4340
XCR_3064
XCR_2628_2
XCR_2109
XCR_1530
XCR_2284
XCR_1396
XCR_1418_1
XCR_1008
XCR_0620
XCR_3684
XCR_0193
XCR_2628_1
XCR_0528_2
XCR_3682
XCR_0173
XCR_3321
XCR_2343
XCR_1421
XCR_3440
XCR_2237
XCR_0713
XCR_3775
XCR_2232
XCR_2640_1
XCR_3774_1
XCR_2212
XCR_3332
XCR_2420
XCR_2730
XCR_1888
XCR_1891
XCR_1889
XCR_1408_2
XCR_3052
XCR_0873
XCR_1160
XCR_3731
XCR_3688
XCR_0331
XCR_4026
XCR_1415
XCR_2107
XCR_1418_3
XCR_1007
XCR_3288
XCR_2641
XCR_4027
XCR_2640_2
XCR_2421
XCR_0671
XCR_2170
XCR_2141
XCR_1408_1
XCR_3291
XCR_1252
XCR_3292
XCR_3453
XCR_1342
XCR_0959
XCR_1418_2
XCR_0528_1
XCR_0384
XCR_3774_2
XCR_0621
XCR_3644
XCR_3225
XCR_3223
XCR_3224
XCR_2448
XCR_0368
XCR_2366
XCR_2214
XCR_1350
XCR_0128
XCR_3848
XCR_0635
XCR_3066
XCR_2119



Orphan
Pair
Triad
Tetrad
Pentad+

Cluster **Family**

| Cluster | Family | Domains |
|---------|--------------|--|
| Orphan | NtrC | 1 Response_reg,1 AAA,1 HTH_8 |
| Orphan | PrrA | 1 Response_reg,1 HTH_8 |
| Orphan | NtrC | 1 Response_reg,1 AAA_5,1 HTH_8 |
| Orphan | VieA | 1 Response_reg,1 EAL |
| Orphan | PleD | 2 Response_reg,1 GGDEF |
| Orphan | Unorthodox | 1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt |
| Orphan | unclassified | 1 Response_reg,1 Hpt |
| Orphan | AmiR_NasR | 1 Response_reg,1 ANTAR |
| Orphan | OmpR | 1 Response_reg,1 Trans_reg_C |
| Orphan | Hybrid | 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg |
| Orphan | Hybrid | 1 CHASE3,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | NtrC | 1 Response_reg,1 AAA_5,1 HTH_8 |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | PleD | 2 Response_reg,1 GGDEF |
| Orphan | FrzZ | 2 Response_reg |
| Orphan | Hybrid | 1 PAS,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 1 PAS,1 HisKA,1 HATPase_c,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_5,1 HTH_8 |
| Orphan | PleD_VieA | 1 GGDEF,1 EAL,1 Response_reg |
| Orphan | NtrC | 1 Response_reg,1 AAA_5,1 HTH_8 |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheV | 1 CheW,1 Response_reg |
| Orphan | Unorthodox | 1 CHASE,1 PAS_4,1 PAS,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt |
| Orphan | Hybrid | 2 Response_reg,1 HisKA,1 HATPase_c |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | Hybrid | 4 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 2 PAS_4,1 PAS,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | Hybrid | 2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c |
| Orphan | 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 |
| Orphan | 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 |
| Orphan | VieA | 1 Response_reg,1 EAL |
| Orphan | Hybrid | 1 Response_reg,1 HisKA,1 HATPase_c |
| Orphan | RpfG | 1 Response_reg,1 HD |
| Orphan | Hybrid | 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheA | 4 Hpt,1 H-kinase_dim,1 HATPase_c,1 CheW,1 Response_reg |
| Orphan | RpfG | 1 Response_reg,1 HD |
| Orphan | Unorthodox | 1 HisKA,1 HATPase_c,1 Response_reg,1 Hpt |
| Orphan | Unorthodox | 1 CHASE,1 PAS_4,1 PAS,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt |
| Orphan | Hybrid | 2 GAF,2 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | Hybrid | 2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | 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 |
| Orphan | Hybrid | 1 GAF,1 HisKA,1 HATPase_c,3 Response_reg |
| Orphan | FrzZ | 2 Response_reg |
| Orphan | CheY | 1 Response_reg |
| Orphan | Hybrid | 2 Response_reg,1 HisKA,1 HATPase_c |
| Orphan | unclassified | 1 REC |
| Orphan | RpfG | 1 Response_reg,1 HDOD |
| Orphan | Hybrid | 1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | Hybrid | 1 HisKA,1 HATPase_c,1 Response_reg |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | NarL | 1 Response_reg,1 HTH_LUXR |
| Orphan | LytTR | 1 Response_reg,1 LytTR |
| Orphan | LytTR | 1 Response_reg,1 LytTR |
| Orphan | CheB | 1 Response_reg,1 CheB_methylest |
| Orphan | CheB | 1 Response_reg,1 CheB_methylest |