



NAL212\_2905  
 NAL212\_0488  
 NAL212\_2985  
 NAL212\_2313  
 NAL212\_2280  
 NAL212\_1330\_1  
 NAL212\_1748  
 NAL212\_1232\_1  
 NAL212\_1934  
 NAL212\_0717  
 NAL212\_0281  
 NAL212\_1926  
 NAL212\_1290  
 NAL212\_1285  
 NAL212\_2106\_2  
 NAL212\_1232\_2  
 NAL212\_2236  
 NAL212\_1292  
 NAL212\_1946  
 NAL212\_0862  
 NAL212\_2106\_1  
 NAL212\_1668  
 NAL212\_1048\_2  
 NAL212\_1291  
 NAL212\_1048\_1  
 NAL212\_2239  
 NAL212\_2370  
 NAL212\_1119\_2  
 NAL212\_1119\_1  
 NAL212\_2613  
 NAL212\_1672  
 NAL212\_1047  
 NAL212\_0682  
 NAL212\_1330\_2  
 NAL212\_0683\_1  
 NAL212\_0683\_2  
 NAL212\_0646  
 NAL212\_1379  
 NAL212\_2815  
 NAL212\_1046  
 NAL212\_0414  
 NAL212\_2831  
 NAL212\_1247  
 NAL212\_2336  
 NAL212\_1104

**Cluster**

**Family**

**Domains**

- Orphan
- Pair
- Triad
- Tetrad
- Pentad+



PrrA  
 NtrC  
 PrrA  
 NtrC  
 NarL  
 PleD  
 PleD\_VieA  
 NarL  
 VieA  
 NarL  
 NarL  
 CheV  
 CheY  
 CheY  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 CheB  
 PleD\_VieA  
 Hybrid  
 PleD\_VieA  
 CheY  
 CheY  
 FrzZ  
 FrzZ  
 CheY  
 CheY  
 CheY  
 RpfG  
 PleD  
 Unorthodox  
 Unorthodox  
 CheY  
 Unorthodox  
 NarL  
 Hybrid  
 CheA  
 OmpR  
 OmpR  
 OmpR  
 OmpR

1 Response\_reg,1 HTH\_8  
 1 Response\_reg,1 AAA\_5,1 HTH\_8  
 1 Response\_reg,1 HTH\_8  
 1 Response\_reg,1 AAA\_5,1 HTH\_8  
 1 Response\_reg,1 HTH\_LUXR  
 1 Hpt,2 Response\_reg,1 GGDEF  
 1 Response\_reg,1 PAS\_3,1 GGDEF,1 EAL  
 2 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 EAL  
 1 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 HTH\_LUXR  
 1 CheW,1 Response\_reg  
 1 Response\_reg  
 1 Response\_reg  
 1 REC,1 Response\_reg,1 HTH\_LUXR  
 2 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 HTH\_LUXR  
 1 REC,1 Response\_reg,1 HTH\_LUXR  
 1 Response\_reg,1 CheB\_methylest  
 2 Response\_reg,1 PAS\_3,1 GAF,1 PAS,1 GGDEF,1 EAL  
 1 Response\_reg,1 PAS\_3,1 HisKA\_3,1 HATPase\_c  
 2 Response\_reg,1 PAS\_3,1 GAF,1 PAS,1 GGDEF,1 EAL  
 1 Response\_reg  
 1 Response\_reg  
 2 Response\_reg  
 2 Response\_reg  
 1 Response\_reg  
 1 Response\_reg  
 1 Response\_reg  
 1 HDOD,1 Response\_reg,1 GGDEF  
 1 Hpt,2 Response\_reg,1 GGDEF  
 1 HAMP,1 HisKA,1 HATPase\_c,2 Response\_reg,1 Hpt  
 1 HAMP,1 HisKA,1 HATPase\_c,2 Response\_reg,1 Hpt  
 1 Response\_reg  
 1 HAMP,1 PAS,1 HisKA,1 HATPase\_c,1 Response\_reg,1 Hpt  
 1 Response\_reg,1 HTH\_LUXR  
 2 PAS\_4,2 HisKA,2 HATPase\_c,1 Response\_reg,2 PAS\_3  
 2 Hpt,1 H-kinase\_dim,1 HATPase\_c,1 CheW,1 Response\_reg  
 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