



R2APBS1\_3388  
R2APBS1\_1828  
R2APBS1\_2734  
R2APBS1\_1064  
R2APBS1\_2977  
R2APBS1\_0864  
R2APBS1\_2968  
R2APBS1\_1583  
R2APBS1\_0115  
R2APBS1\_3056  
R2APBS1\_0687  
R2APBS1\_0891  
R2APBS1\_0696  
R2APBS1\_0105  
R2APBS1\_3431  
R2APBS1\_2610  
R2APBS1\_0685  
R2APBS1\_1534  
R2APBS1\_0012  
R2APBS1\_0725  
R2APBS1\_0618  
R2APBS1\_2801  
R2APBS1\_0511  
R2APBS1\_1101  
R2APBS1\_0186  
R2APBS1\_3306  
R2APBS1\_0853  
R2APBS1\_2042  
R2APBS1\_0882  
R2APBS1\_3245  
R2APBS1\_3244

**Cluster**

- Orphan
- Pair
- Triad
- Tetrad
- Pentad+



**Family**

Classic  
Classic  
Classic  
Classic  
CheA  
CheA  
CheA  
Classic  
Classic  
Classic  
Hybrid  
Classic  
Classic  
Classic  
Classic  
Classic  
Classic  
Hybrid  
Hybrid  
Hybrid  
Hybrid  
Classic  
Classic  
Classic  
Classic  
Classic  
Classic  
Classic  
Classic  
Hybrid  
Hybrid

**Domains**

1 HisKA\_3,1 HATPase\_c  
1 MASE1,1 HisKA\_3,1 HATPase\_c  
1 HisKA\_3,1 HATPase\_c  
1 HisKA\_3,1 HATPase\_c  
1 Hpt,1 H-kinase\_dim,1 HATPase\_c,1 CheW  
3 Hpt,1 H-kinase\_dim,1 HATPase\_c,1 CheW,1 Response\_reg  
1 Hpt,1 H-kinase\_dim,1 HATPase\_c,1 CheW  
1 His\_kinase,1 HATPase\_c  
1 His\_kinase,1 HATPase\_c  
1 GAF,1 HisKA,1 HATPase\_c  
2 Response\_reg,1 HisKA,1 HATPase\_c  
1 HisKA,1 HATPase\_c  
1 HisKA,1 HATPase\_c  
1 HisKA,1 HATPase\_c  
1 HAMP,1 HisKA,1 HATPase\_c  
1 HisKA,1 HATPase\_c  
1 CHASE3,1 PAS\_4,1 HisKA,1 HATPase\_c  
1 PAS,1 HisKA,1 HATPase\_c,1 Response\_reg  
1 PAS,1 HisKA,1 HATPase\_c,1 Response\_reg  
1 HAMP,1 HisKA,1 HATPase\_c,1 Response\_reg  
1 CHASE3,1 HAMP,1 HisKA,1 HATPase\_c,1 Response\_reg  
1 HisKA,1 HATPase\_c  
1 HAMP,1 HisKA,1 HATPase\_c  
1 2CSK\_N,1 HisKA,1 HATPase\_c  
1 HAMP,1 HisKA,1 HATPase\_c  
1 HAMP,1 HisKA,1 HATPase\_c  
1 HisKA,1 HATPase\_c  
1 HAMP,1 HisKA  
1 HAMP,1 HisKA  
1 HisKA,1 HATPase\_c,1 Response\_reg  
1 HisKA,1 HATPase\_c,1 Response\_reg