



Spirs\_4133\_2  
 Spirs\_2226\_1  
 Spirs\_1419  
 Spirs\_4000  
 Spirs\_3995  
 Spirs\_4039  
 Spirs\_3998  
 Spirs\_4054  
 Spirs\_1709  
 Spirs\_2848  
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 Spirs\_1364  
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 Spirs\_0377  
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 Spirs\_2432  
 Spirs\_0290  
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 Spirs\_0652  
 Spirs\_0289  
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 Spirs\_1616  
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 Spirs\_0138  
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 Spirs\_2775\_2  
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 Spirs\_2910  
 Spirs\_2915  
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 Spirs\_1827\_2  
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 Spirs\_0742  
 Spirs\_1265  
 Spirs\_0494  
 Spirs\_4132\_2  
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 Spirs\_3540  
 Spirs\_2849  
 Spirs\_1826  
 Spirs\_1449  
 Spirs\_1827\_1  
 Spirs\_1824  
 Spirs\_3896  
 Spirs\_4280  
 Spirs\_3539  
 Spirs\_3404  
 Spirs\_2112



Orphan  
 Pair  
 Triad  
 Tetrad  
 Pentad+

**Cluster**

**Family**

**Domains**

FrzZ  
 Hybrid  
 Hybrid  
 CheY  
 unclassified  
 CheB  
 CheY  
 NtrC  
 NtrC  
 Hybrid  
 unclassified  
 CheY  
 CheY  
 CheY  
 unclassified  
 OmpR  
 CheY  
 OmpR  
 OmpR  
 OmpR  
 OmpR  
 unclassified  
 Hybrid  
 Classic  
 OmpR  
 OmpR  
 OmpR  
 OmpR  
 OmpR  
 OmpR  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 CheB  
 CheB  
 YesN  
 YesN  
 YesN  
 YesN  
 YesN  
 CheY  
 YesN  
 YesN  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 NarL  
 RsbU  
 RsbU  
 CheY  
 PleD  
 PleD  
 Unorthodox  
 CheY  
 RpfG  
 unclassified  
 FrzZ  
 unclassified  
 CheY  
 CheY  
 Hybrid  
 CheY  
 Unorthodox  
 unclassified  
 PleD  
 Hybrid  
 CheY  
 Hybrid  
 CheY  
 CheY  
 Hybrid  
 Hybrid  
 unclassified  
 NarL  
 NtrC  
 NtrC  
 Unorthodox  
 Unorthodox  
 Hybrid  
 CheY  
 Hybrid  
 Hybrid  
 PleD\_VieA  
 Hybrid  
 Hybrid  
 CheY  
 Hybrid  
 Hybrid  
 Hybrid  
 CheY

2 Response\_reg  
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 1 HAMP,1 HisKA,1 HATPase\_c,1 Response\_reg  
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