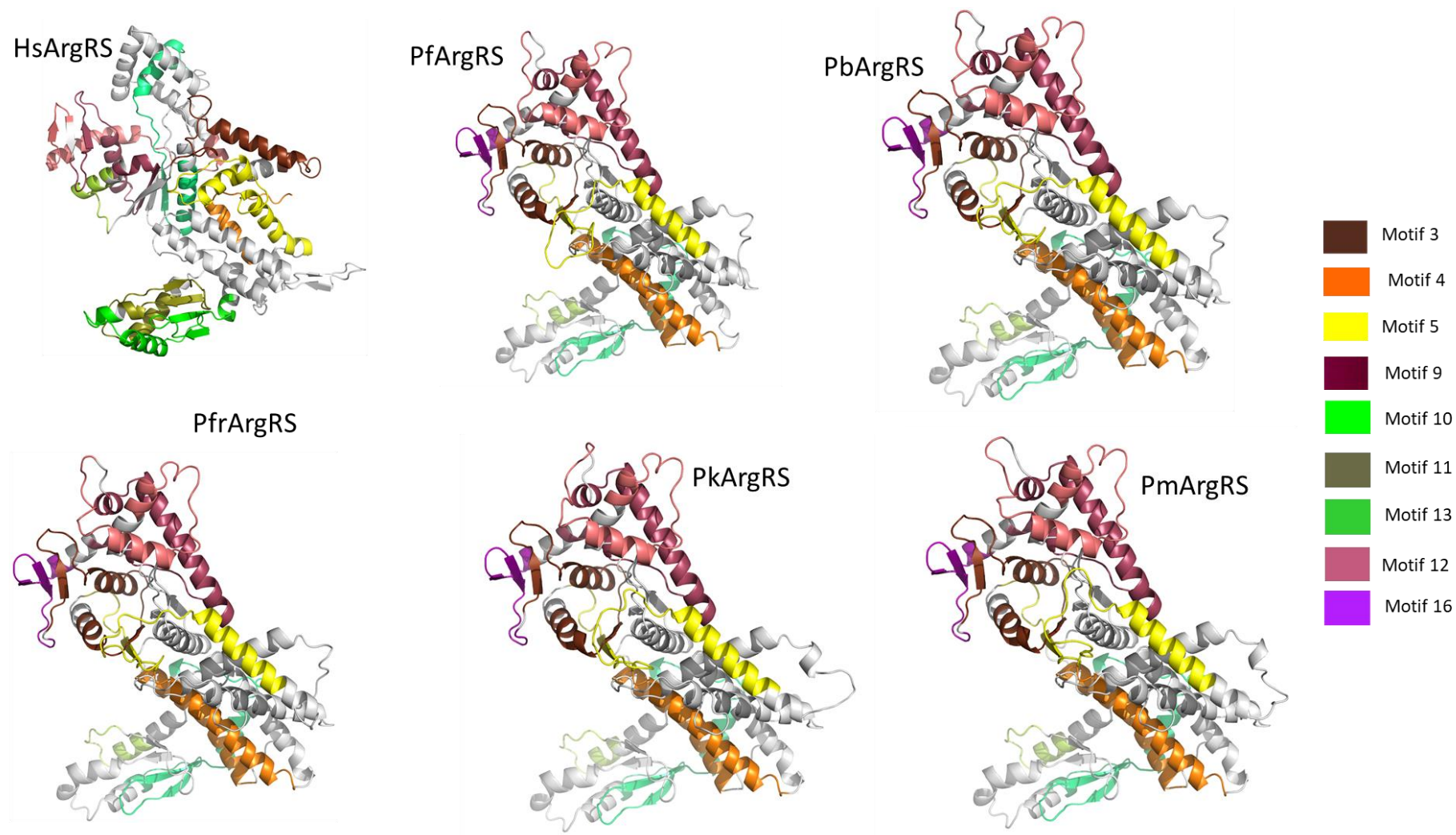
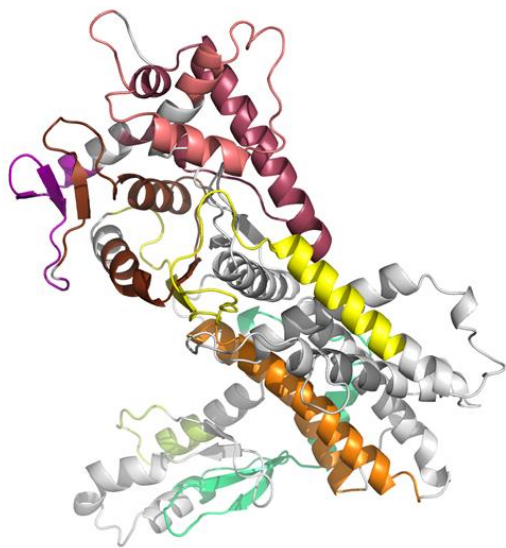


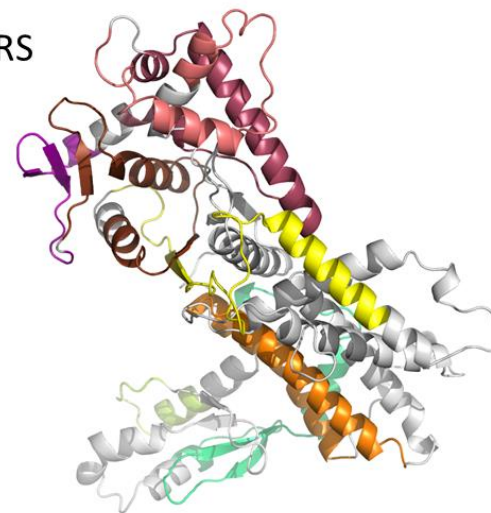
Additional file 6: Mapping of discovered motif to homology models of ArgRS, MetRS, TrpRS, TyrRS, LysRS and ProRS. Motif mapping was done using a python script. Motif numbering is based on the MEME results.



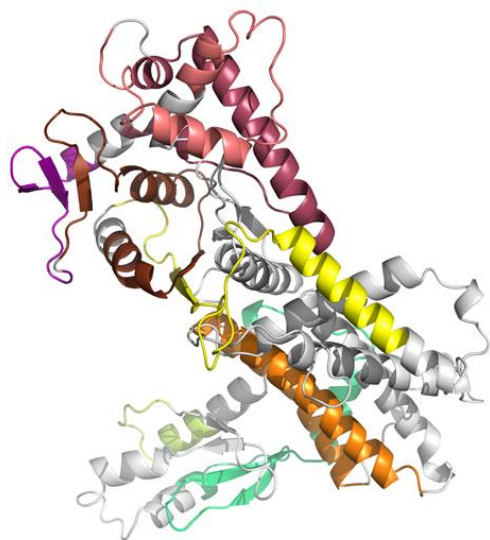
PoArgRS



PvArgRS

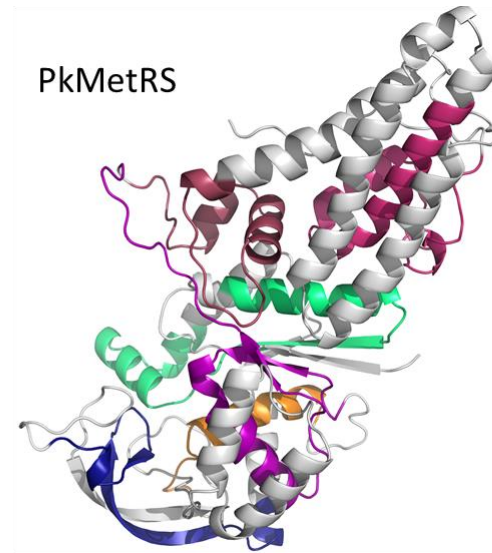
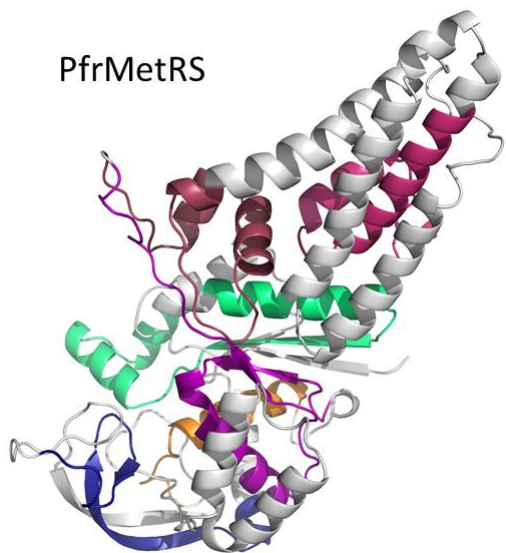
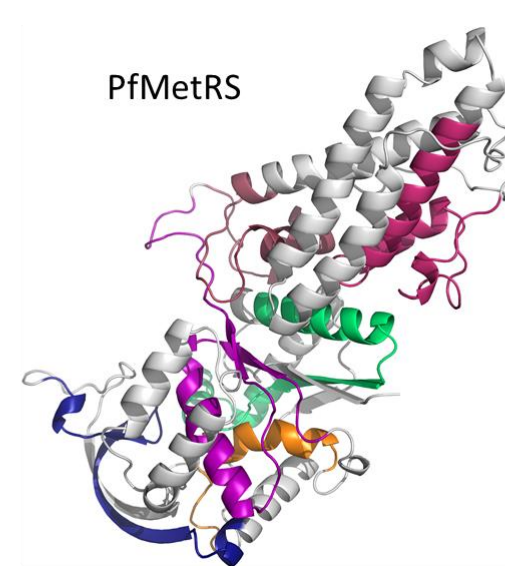
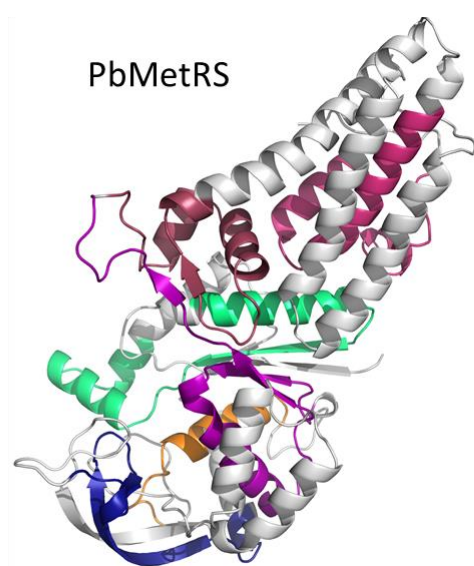
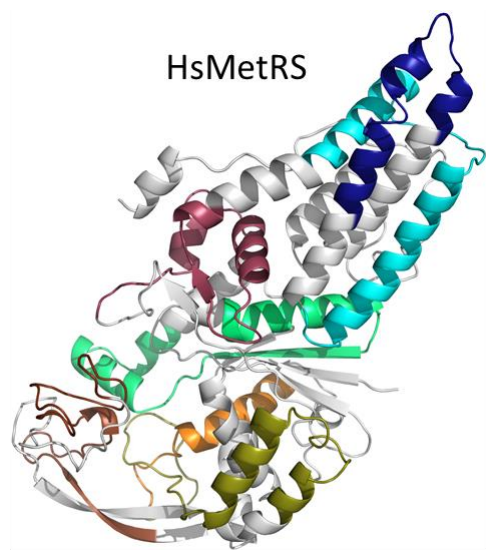


PyArgRS

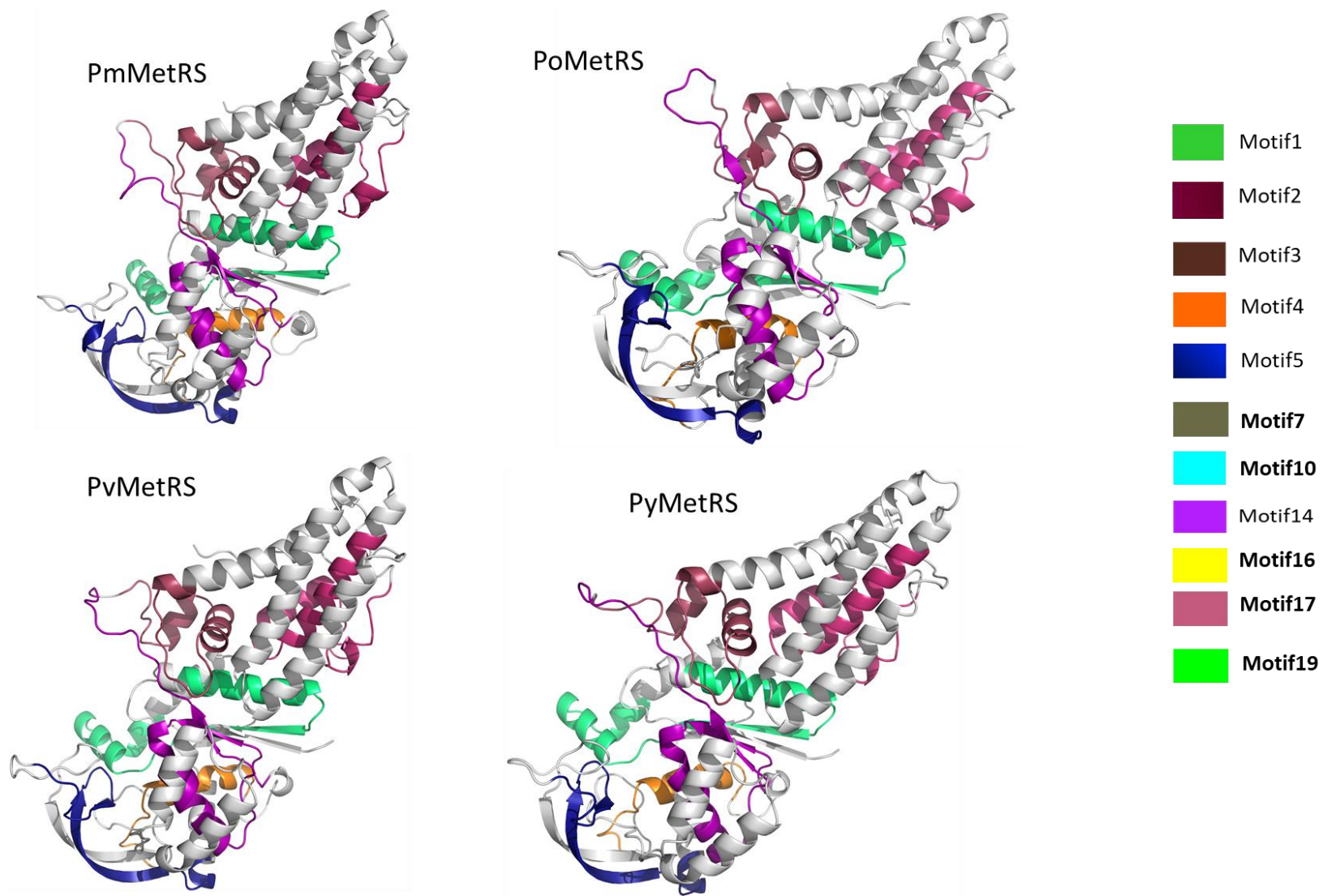


- Motif 3
- Motif 4
- Motif 5
- Motif 9
- Motif 10
- Motif 11
- Motif 13
- Motif 12
- Motif 16

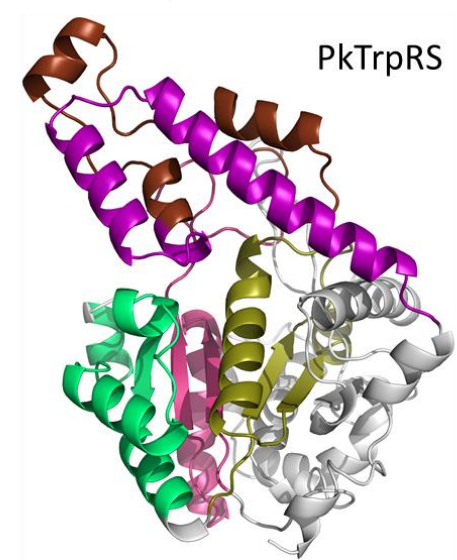
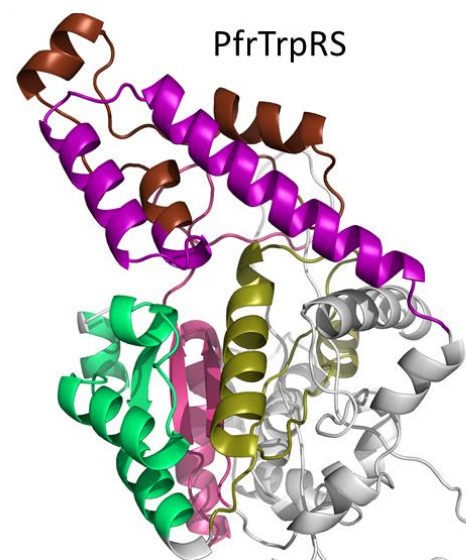
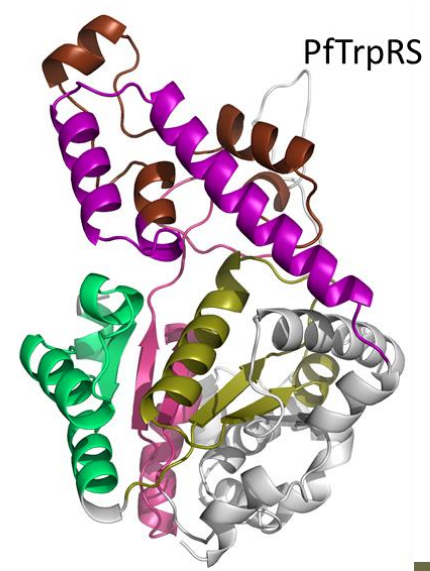
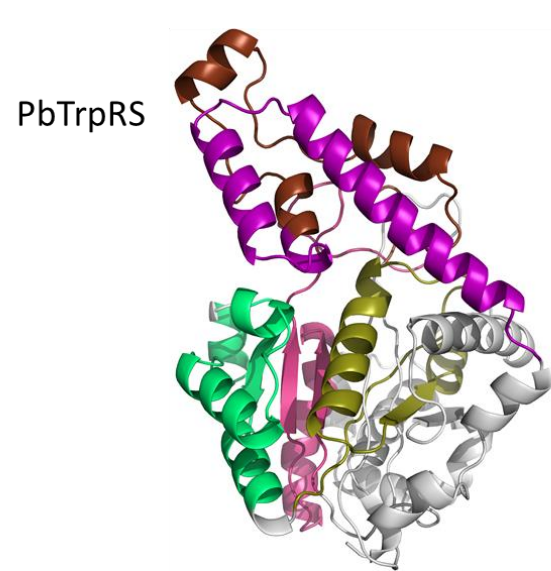
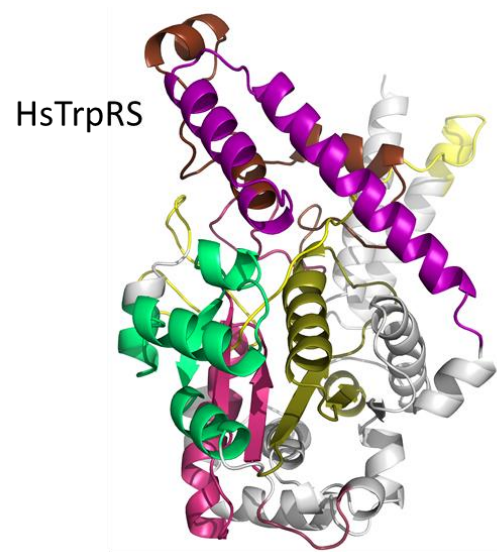
Additional file 6A: Mapping of motifs identified for ArgRS to homology models.



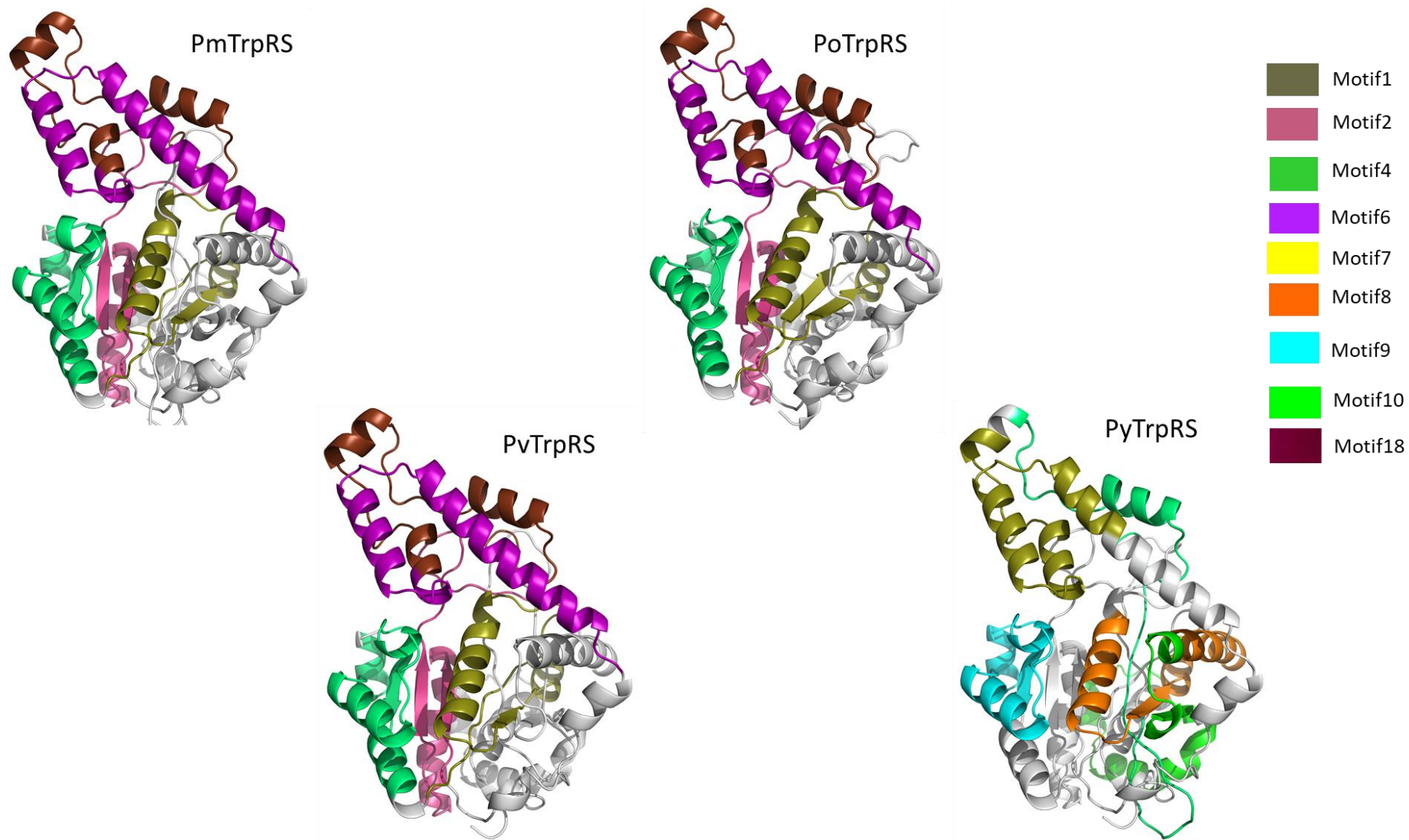
-  Motif1
-  Motif2
-  Motif3
-  Motif4
-  Motif5
-  Motif7
-  Motif10
-  Motif14
-  Motif16
-  Motif17
-  Motif19



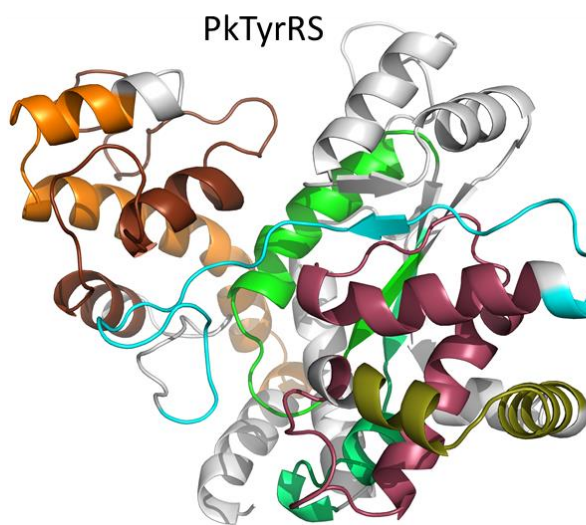
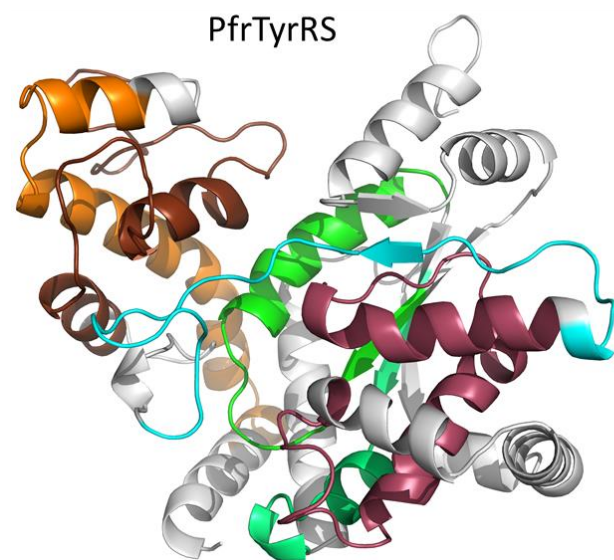
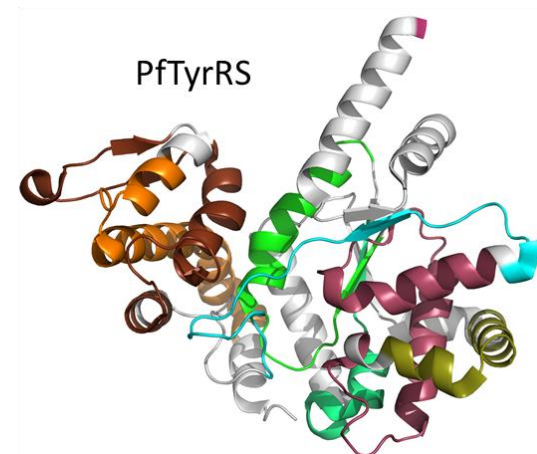
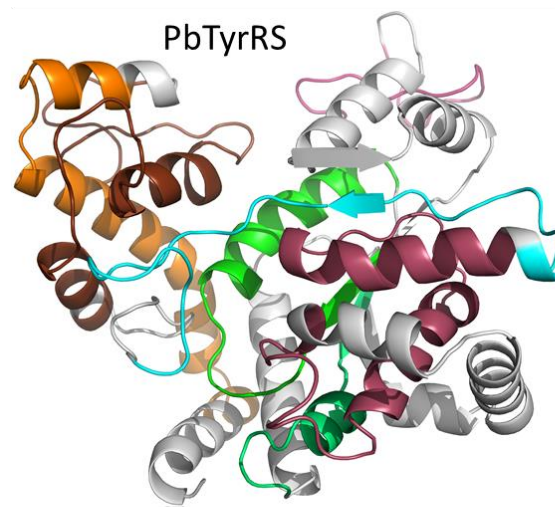
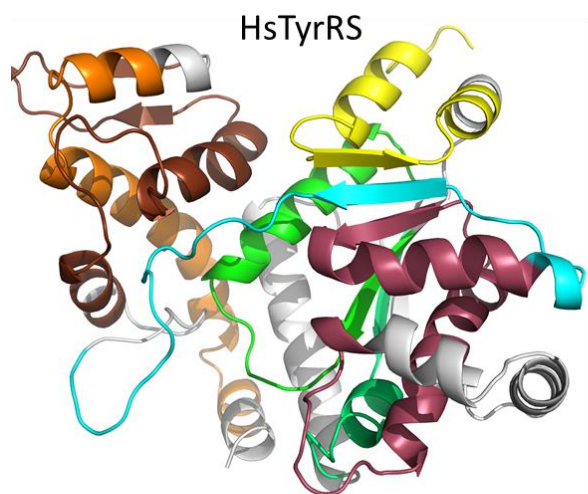
Additional file 6B: Mapping of motifs identified for MetRS to homology models.



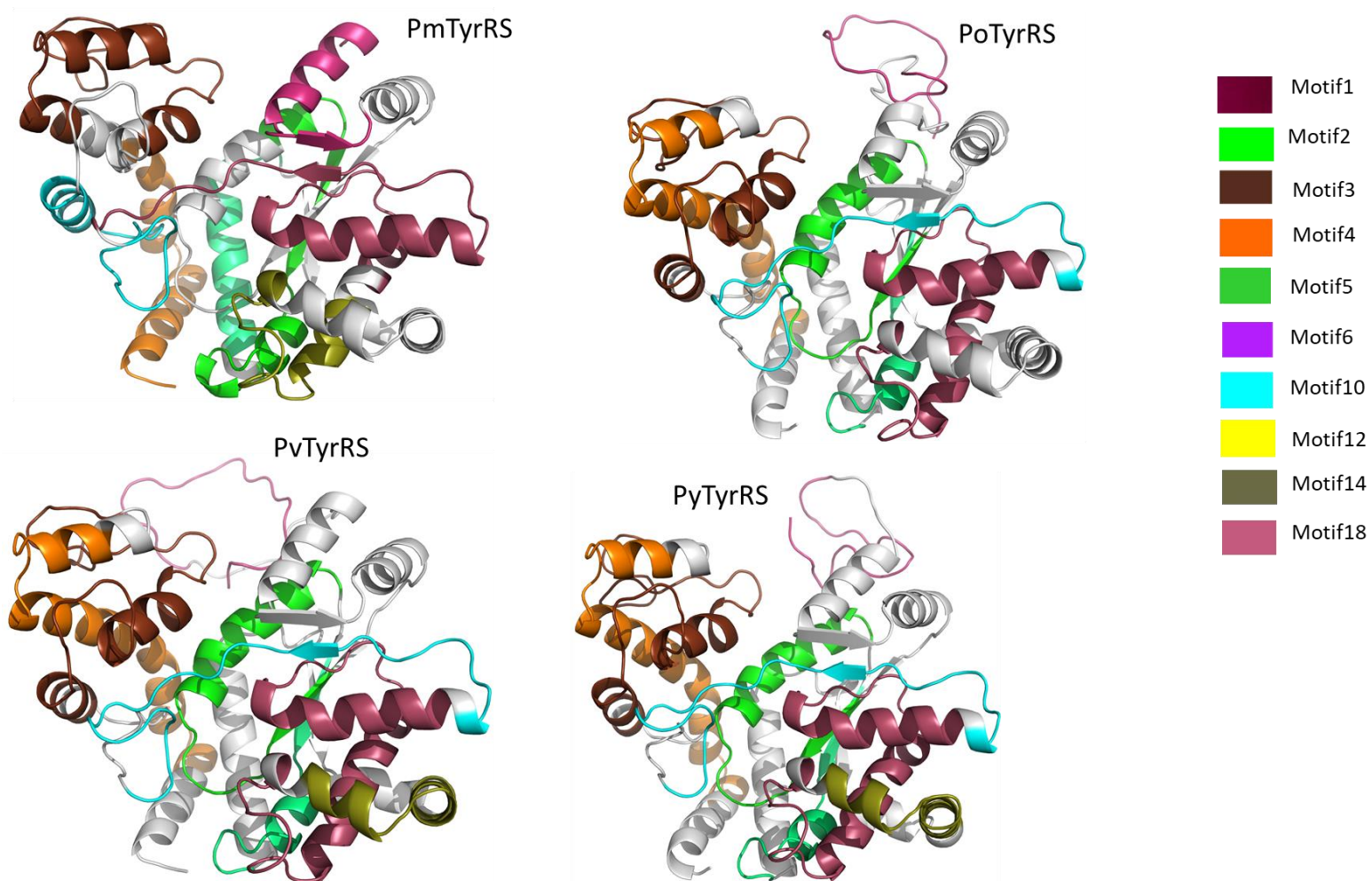
- Motif1
- Motif2
- Motif4
- Motif6
- Motif7
- Motif8
- Motif9
- Motif10
- Motif18



Additional file 6C: Mapping of motifs identified for TrpRS to homology models.

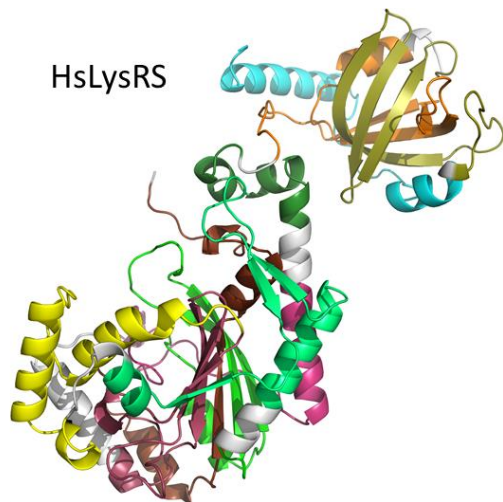


- Motif1
- Motif2
- Motif3
- Motif4
- Motif5
- Motif6
- Motif10
- Motif12
- Motif14
- Motif18

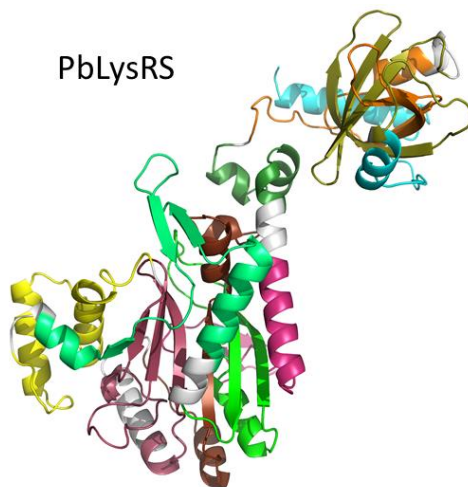


Additional file 6D: Mapping of motifs identified for TyrRS to homology models.

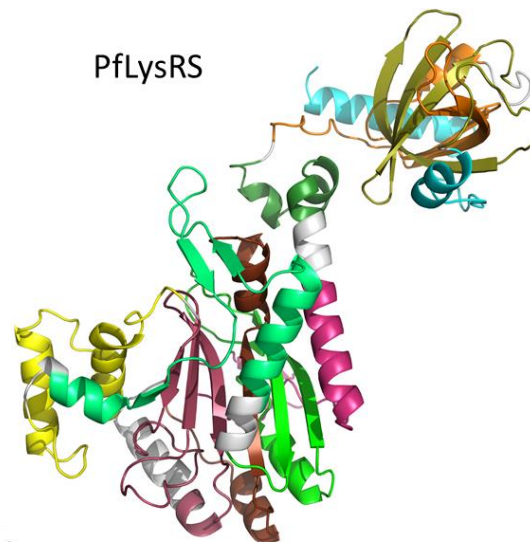
HsLysRS



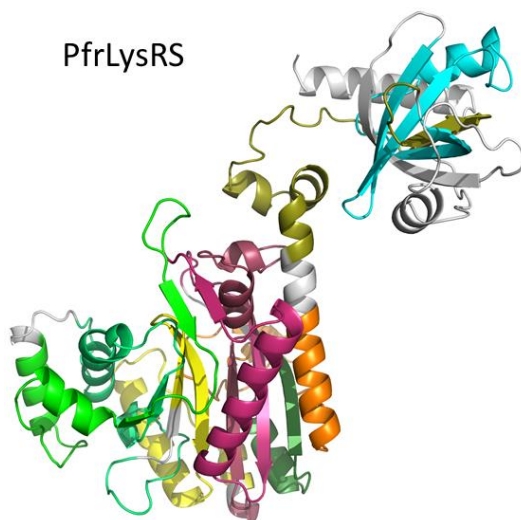
PbLysRS



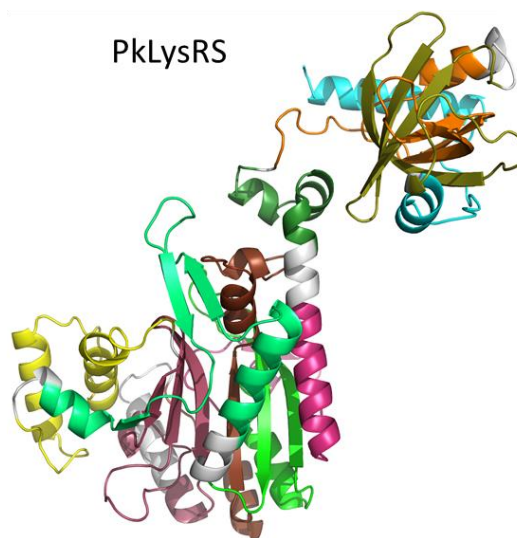
PfLysRS



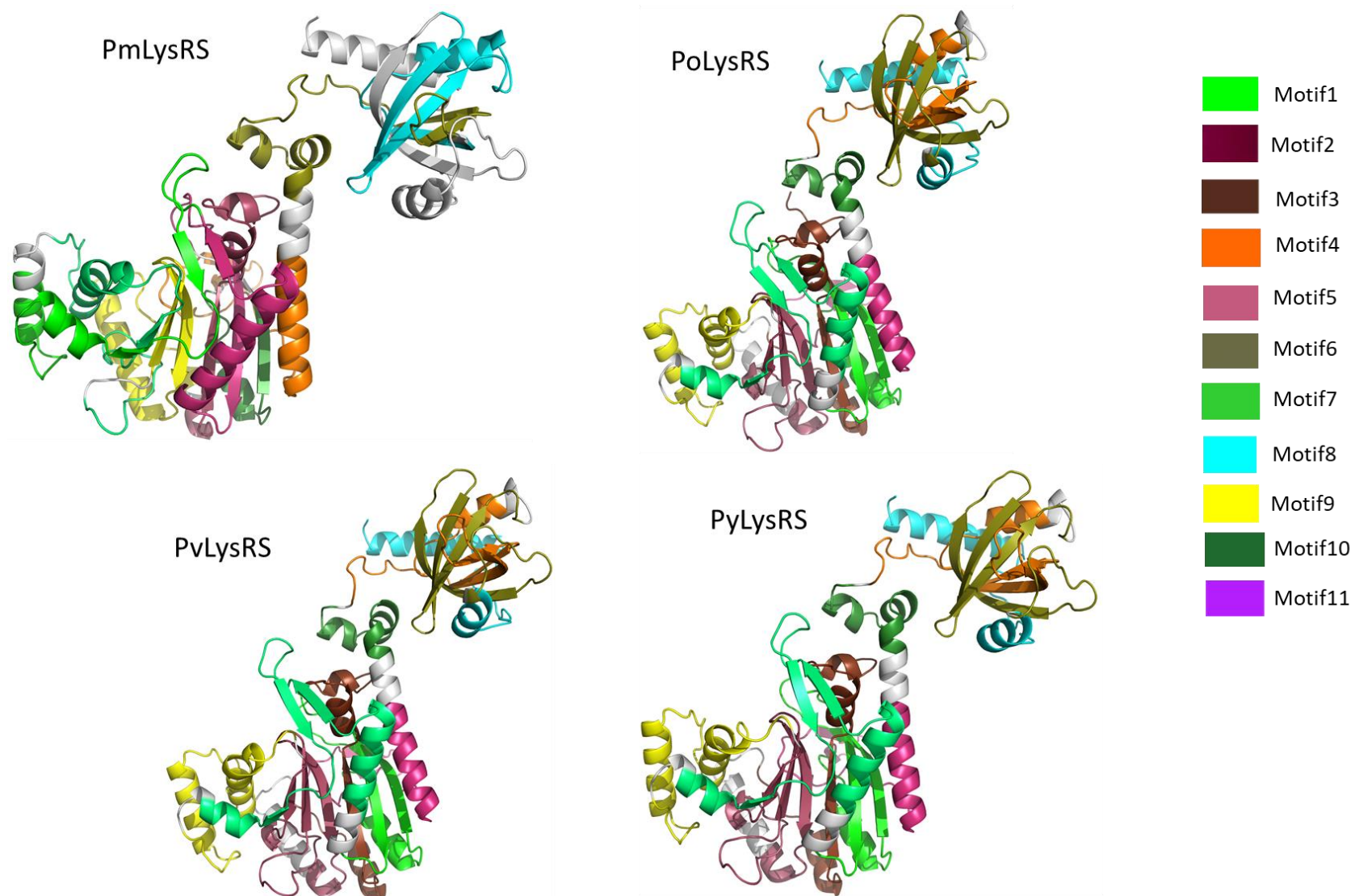
PfrLysRS



PkLysRS

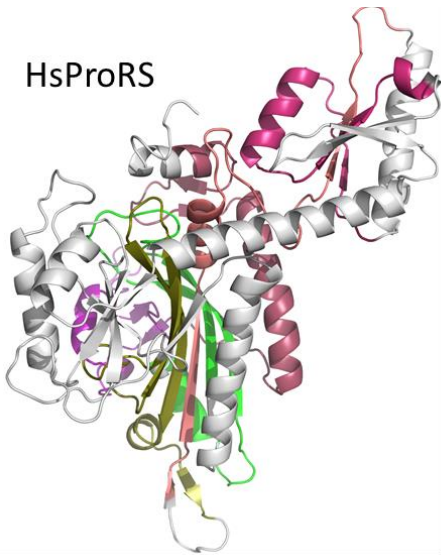


- Motif1
- Motif2
- Motif3
- Motif4
- Motif5
- Motif6
- Motif7
- Motif8
- Motif9
- Motif10
- Motif11

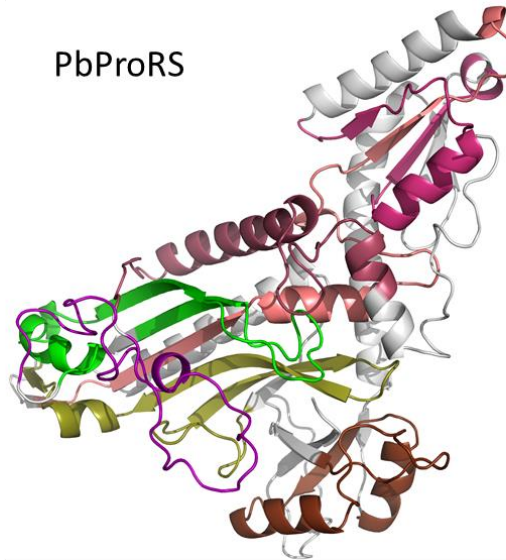


Additional file 6E: Mapping of motifs identified for LysRS to homology models.

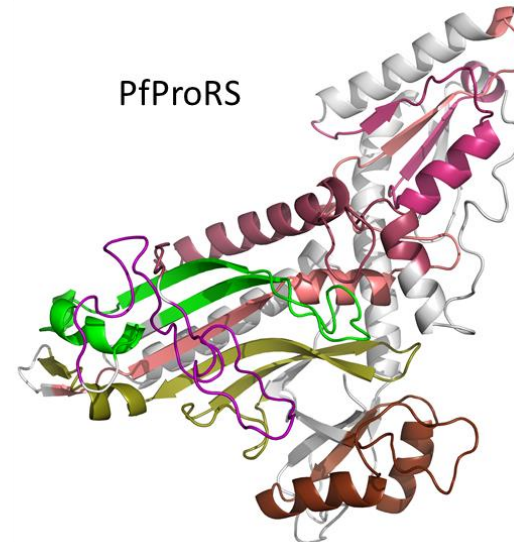
HsProRS



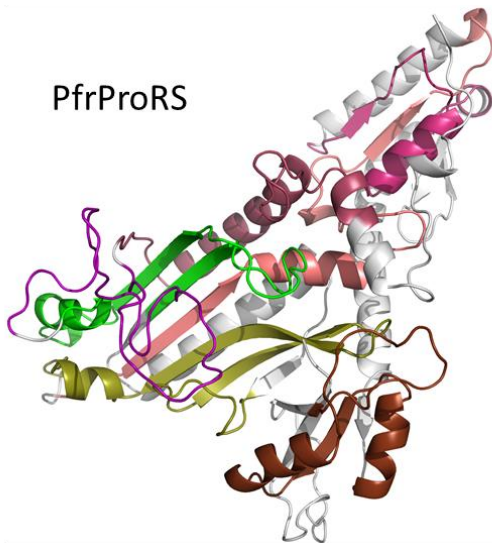
PbProRS



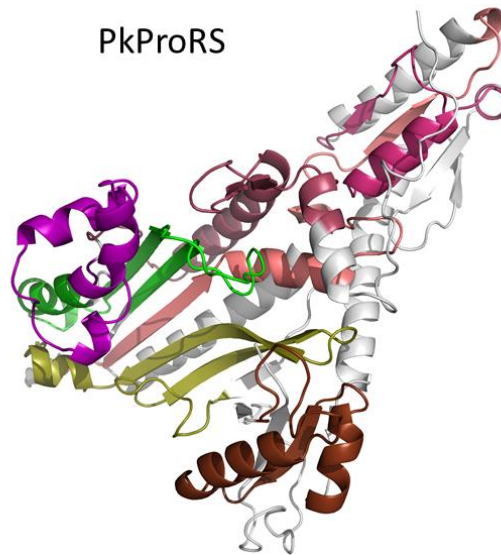
PfProRS



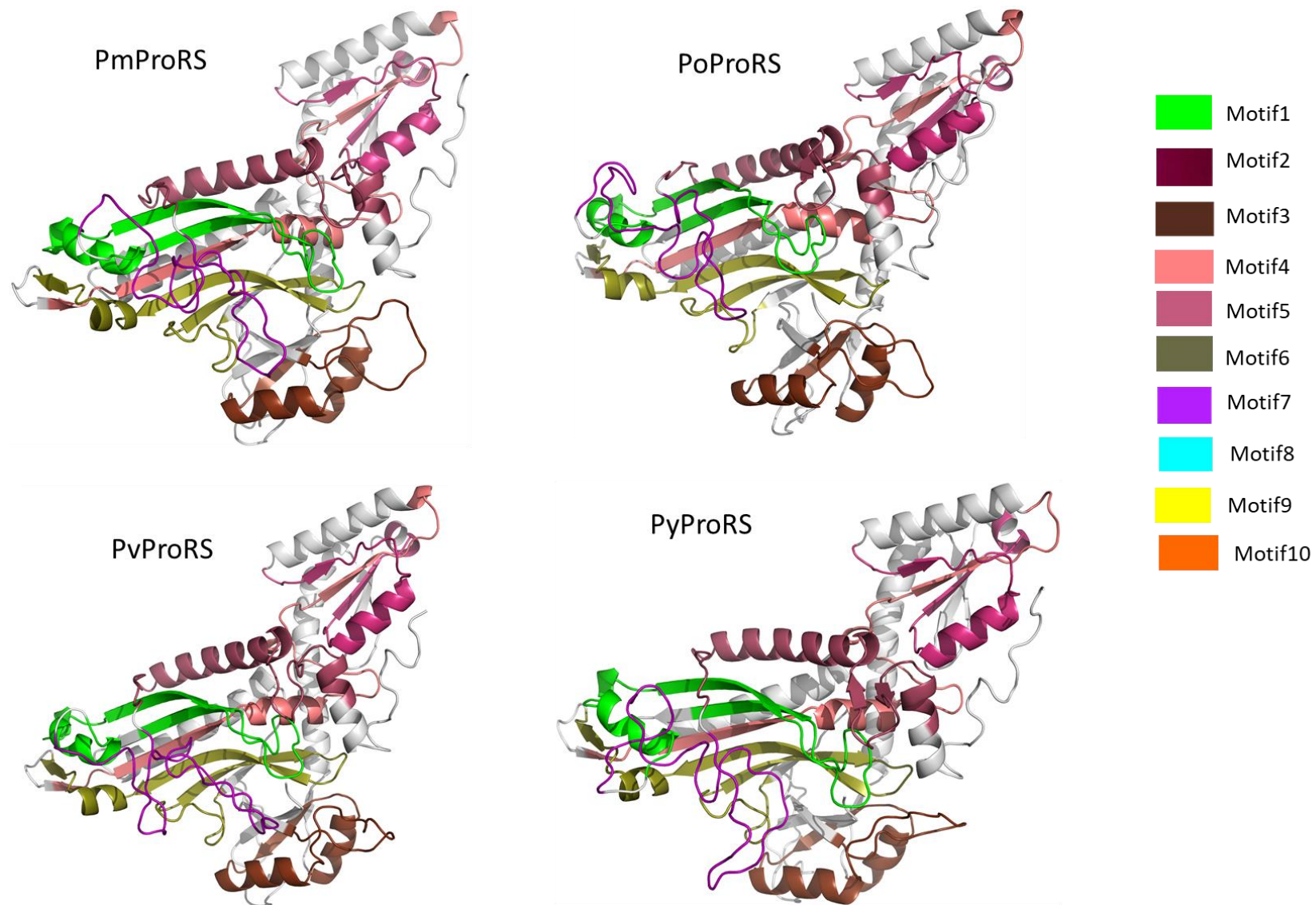
PfrProRS



PkProRS



-  Motif1
-  Motif2
-  Motif3
-  Motif4
-  Motif5
-  Motif6
-  Motif7
-  Motif8
-  Motif9
-  Motif10



Additional file 6F: Mapping of motifs identified for ProRS to homology models.