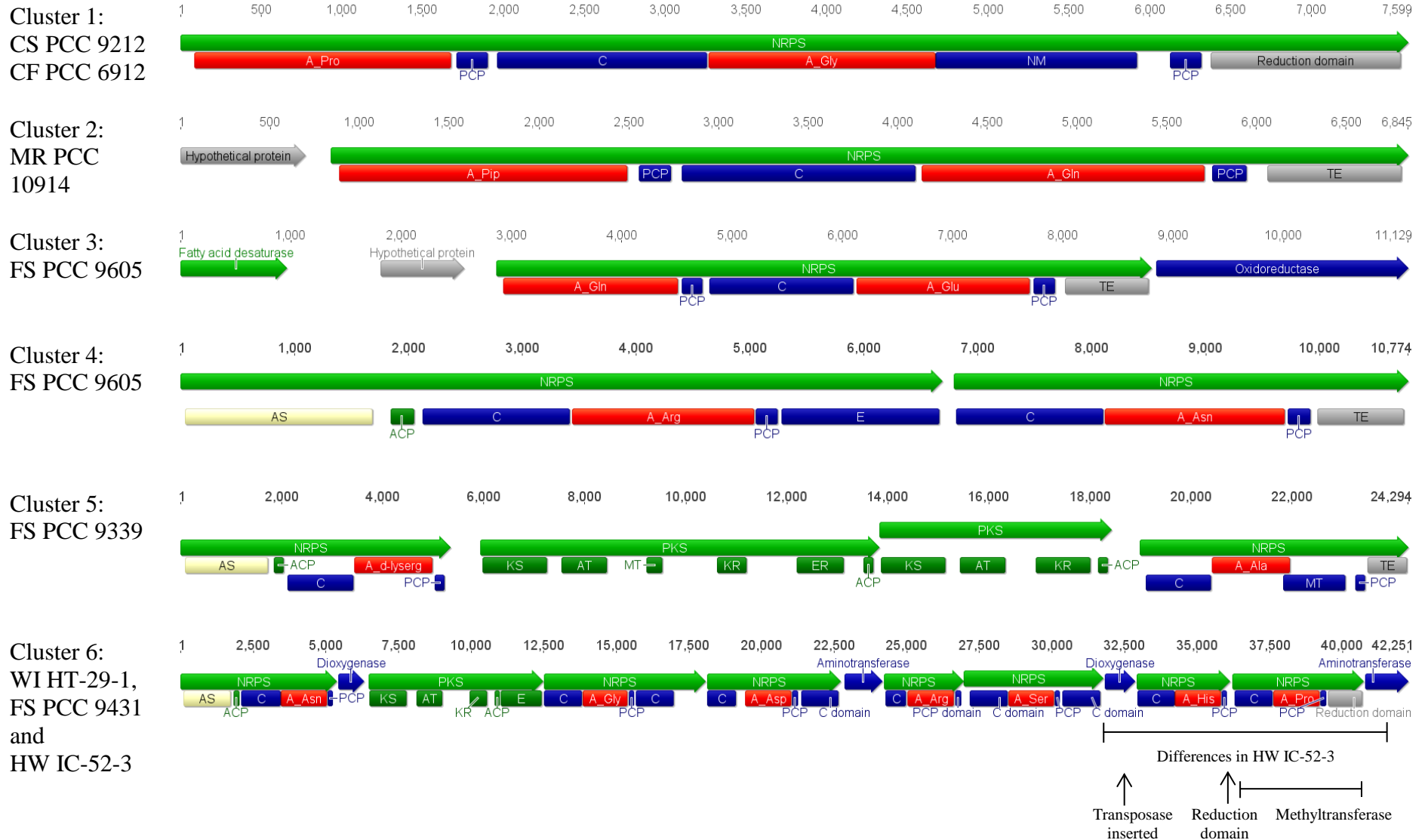
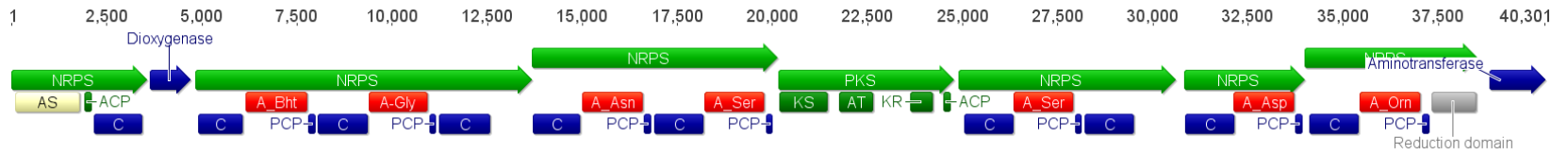


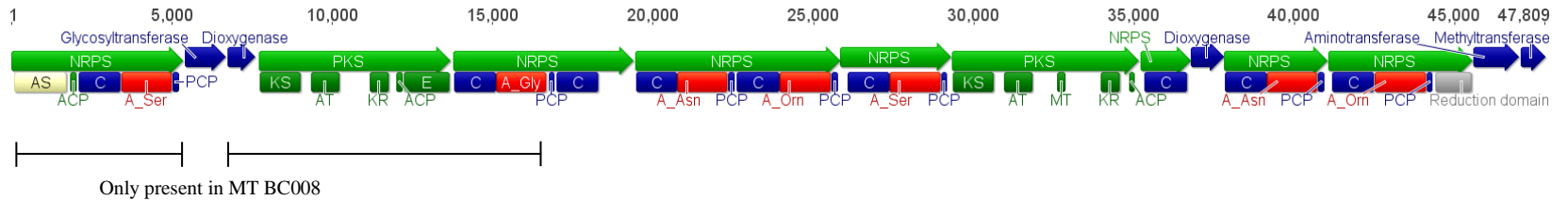
**Additional file 4: Complete orphan NRPS/PKS gene clusters identified from the Subsection V cyanobacterial genomes.**



Cluster 7:  
MR  
PCC10914



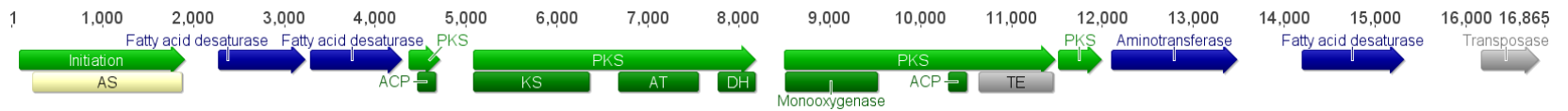
Cluster 8:  
CF PCC 6912,  
CS PCC 9212  
and MT  
BC008



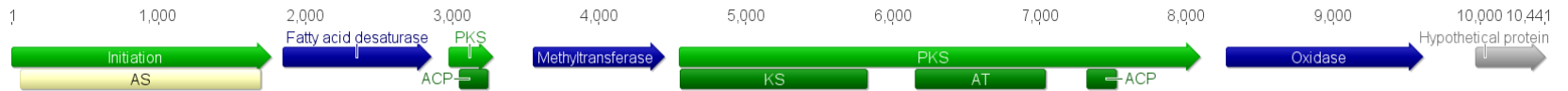
Cluster 9:  
MT BC008



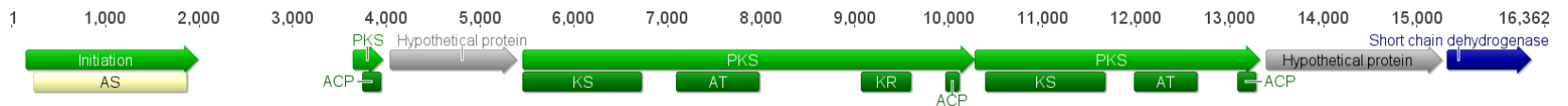
Cluster 10:  
FS PCC 9339



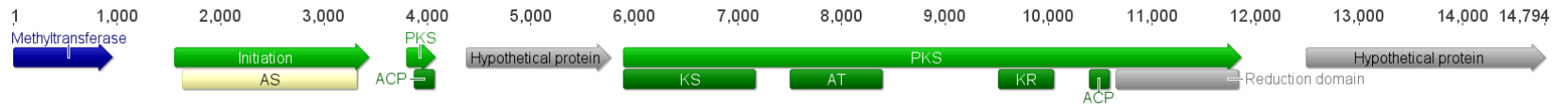
Cluster 11:  
FS PCC 9339



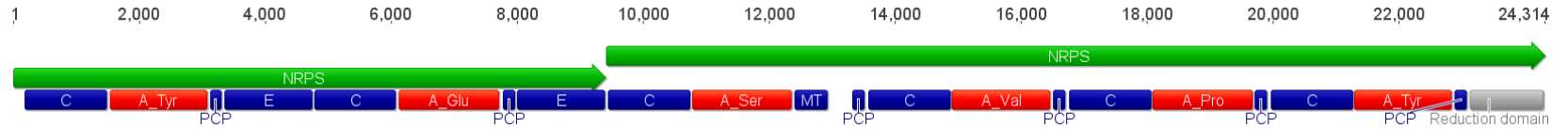
Cluster 12:  
FS PCC 9605



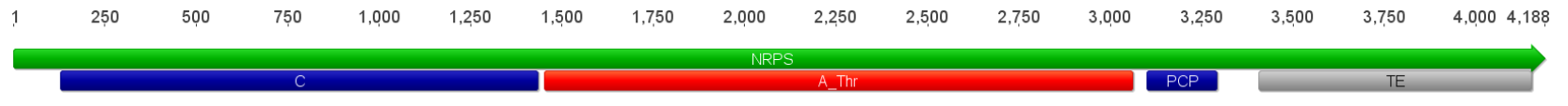
Cluster 13:  
MT BC008



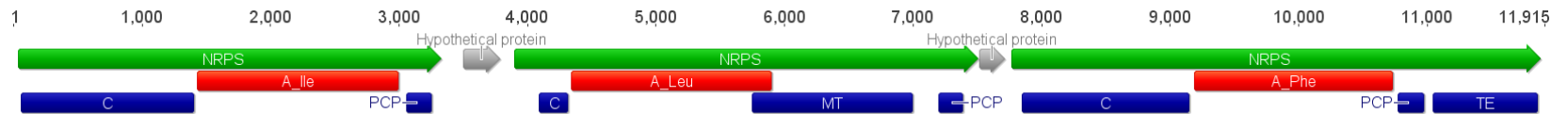
Cluster 14:  
FS PCC 9339



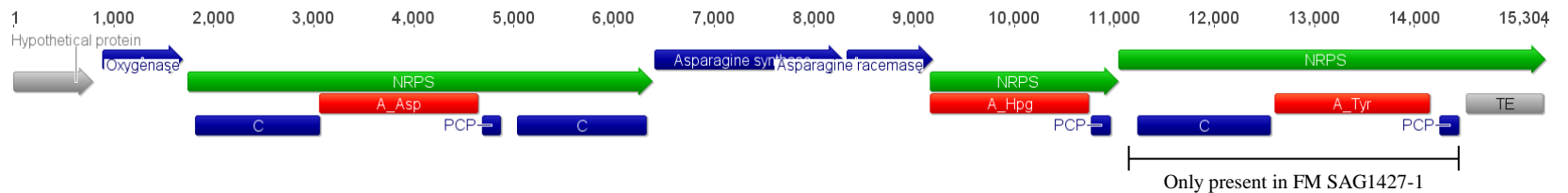
Cluster 15:  
MR PCC 10914

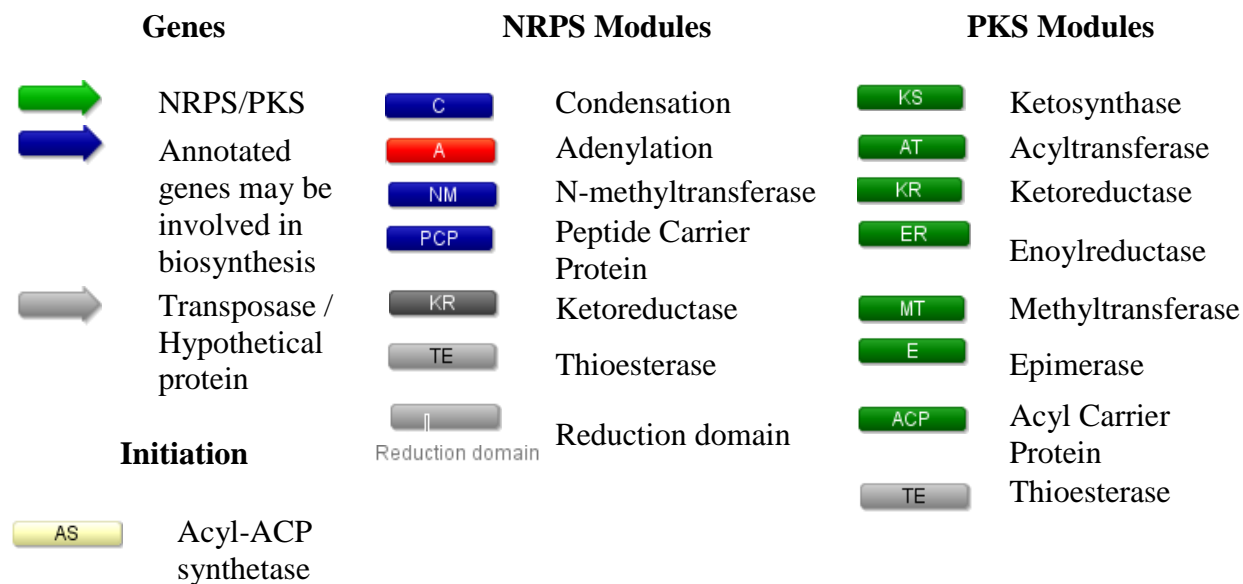


Cluster 16:  
MR PCC 10914



Cluster 17:  
HW IC-52-3,  
FS PCC 9431  
and FM SAG 1427-1





**Additional file 4: Complete orphan NRPS/PKS gene clusters identified from the Subsection V cyanobacterial genomes.** The genomes in which the orphan gene clusters were identified are stated to the left of each cluster (WI HT-29-1: *W. intricata* UH strain HT-29-1, HW IC-52-3: *H. welwitschii* UH strain IC-52-3, FS PCC 9431: *Fischerella* sp. PCC 9431, FS PCC 9399: *Fischerella* sp. PCC 9339, FM SAG 1427-1: *Fischerella muscicola* SAG 1427-1, CF PCC 6912: *Chlorogloeopsis fritschii* PCC 6912, CS PCC 9212: *Chlorogloeopsis* sp. PCC 9212, MT BC008: *Mastigocoleus testarum* BC008, MR PCC 10914: *Mastigocladopsis repens* PCC 10914, FS PCC 9605: *Fischerella* sp. PCC 9605). Fragments of gene clusters, or differences from the gene cluster shown are noted in the image.