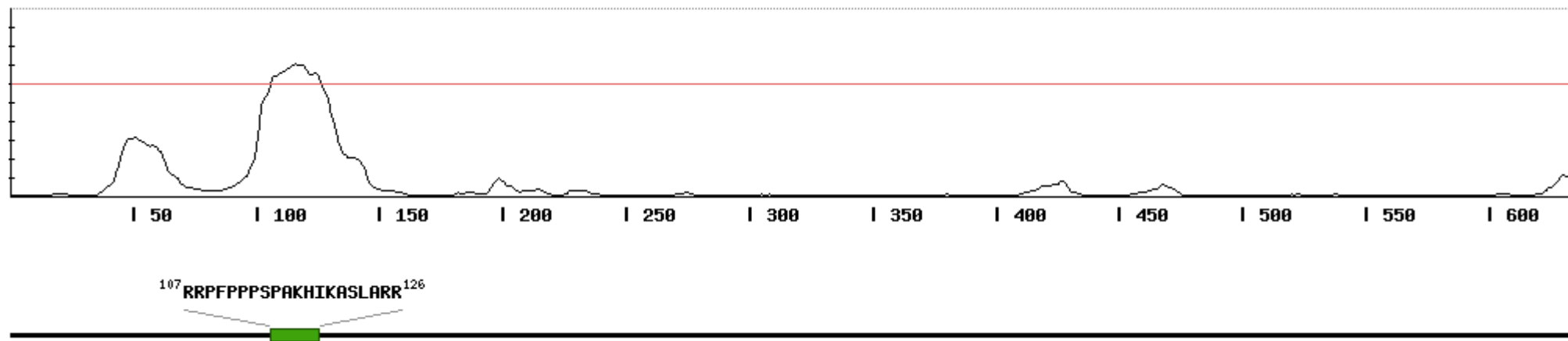
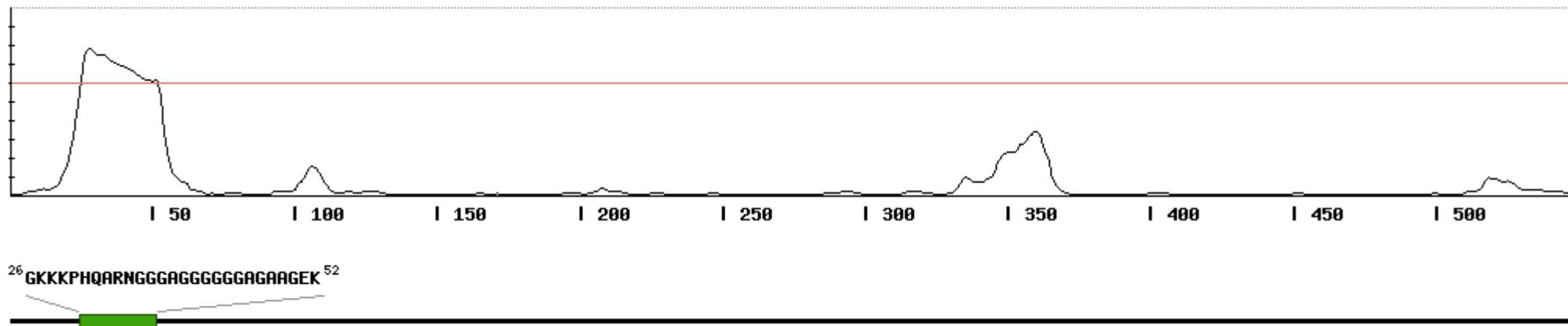


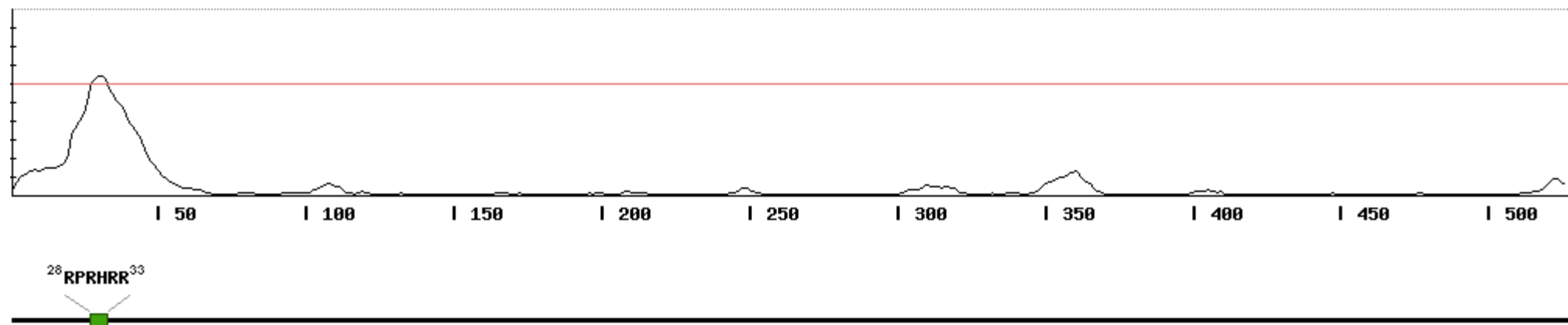


HvSnRK-3

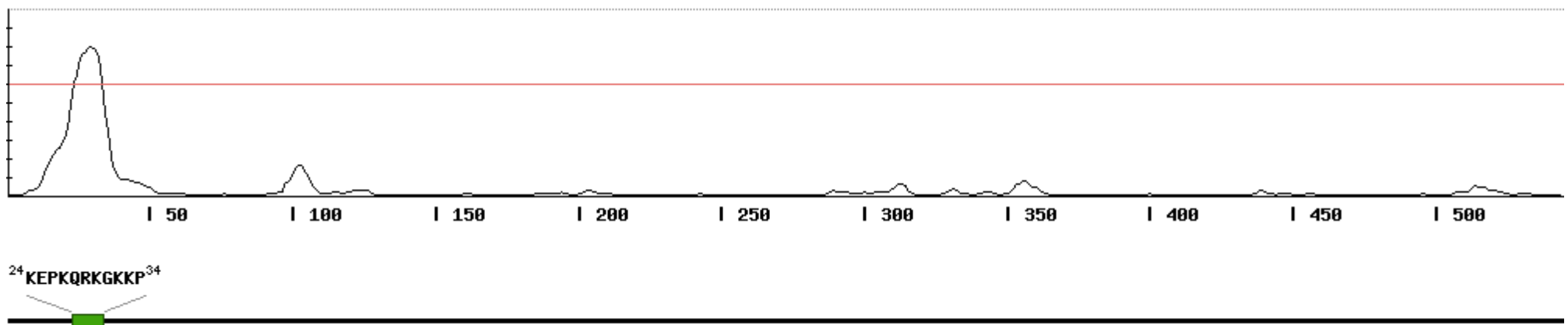


HvSnRK-8

Fig. S1. Nuclear localization signal (NLS) prediction for HvSnRK proteins

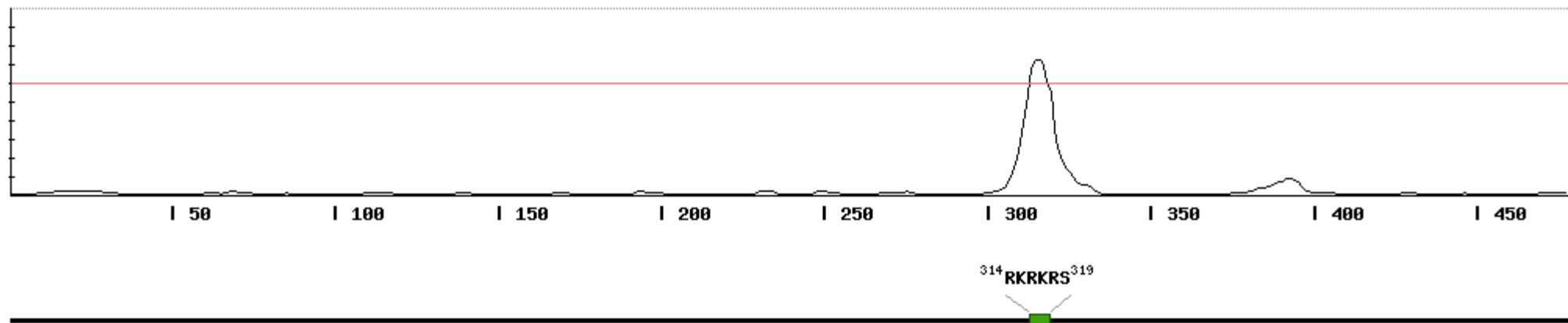


HvSnRK-12

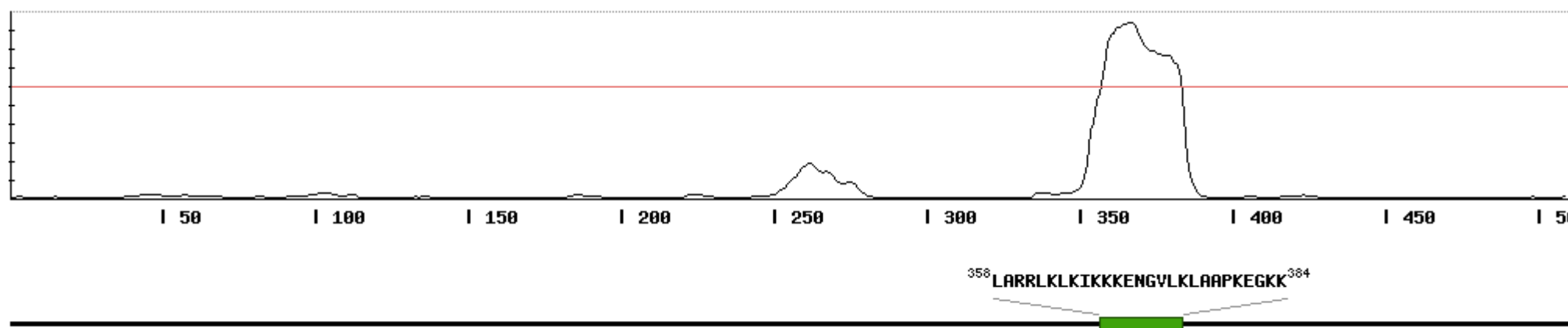


HvSnRK-21

Fig. S2. Nuclear localization signal (NLS) prediction for HvSnRK proteins

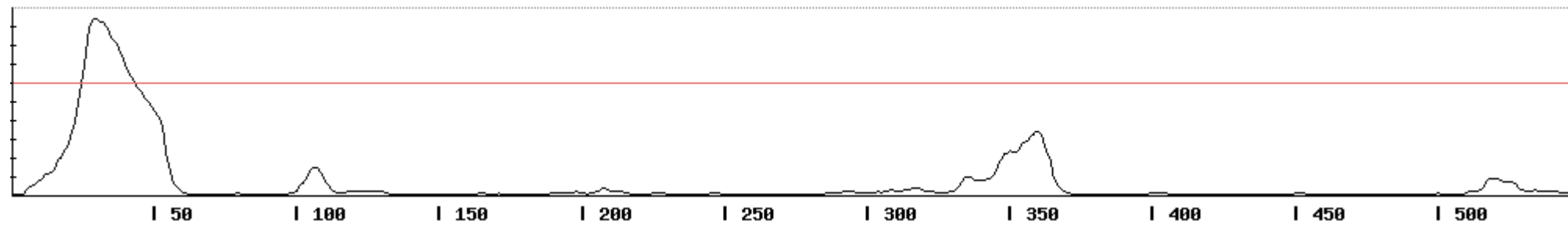


HvSnRK-34



HvSnRK-37

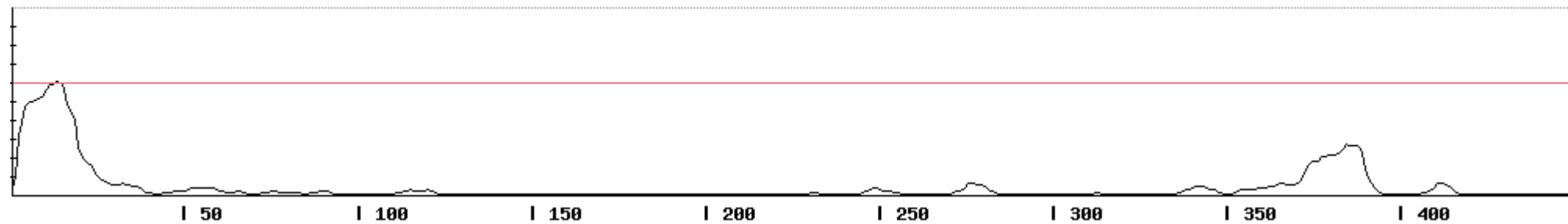
Fig. S3. Nuclear localization signal (NLS) prediction for HvSnRK proteins



²⁶AAKKKKKNKPHQPRSGAAG⁴³



HvSnRK-39



¹⁴K¹⁴



HvSnRK-50

Fig. S4. Nuclear localization signal (NLS) prediction for HvSnRK proteins

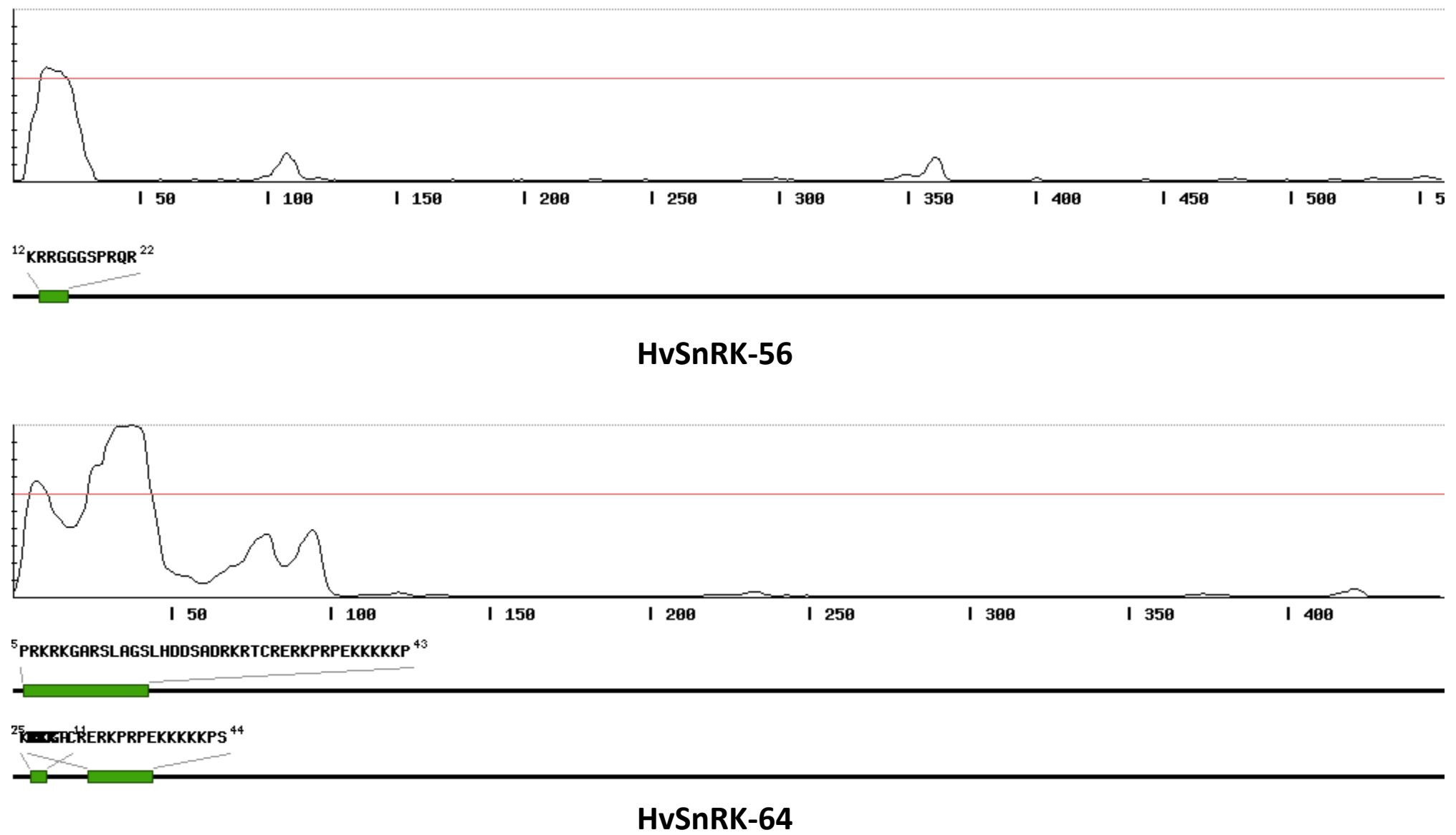
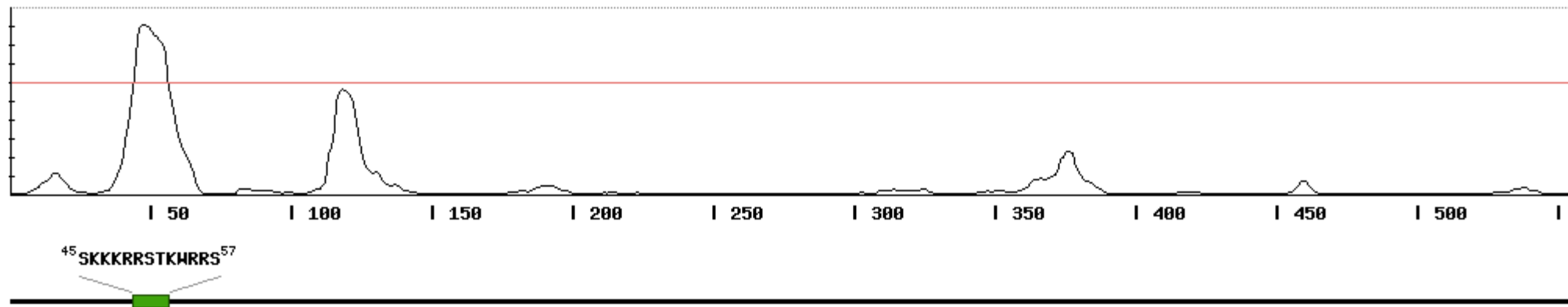
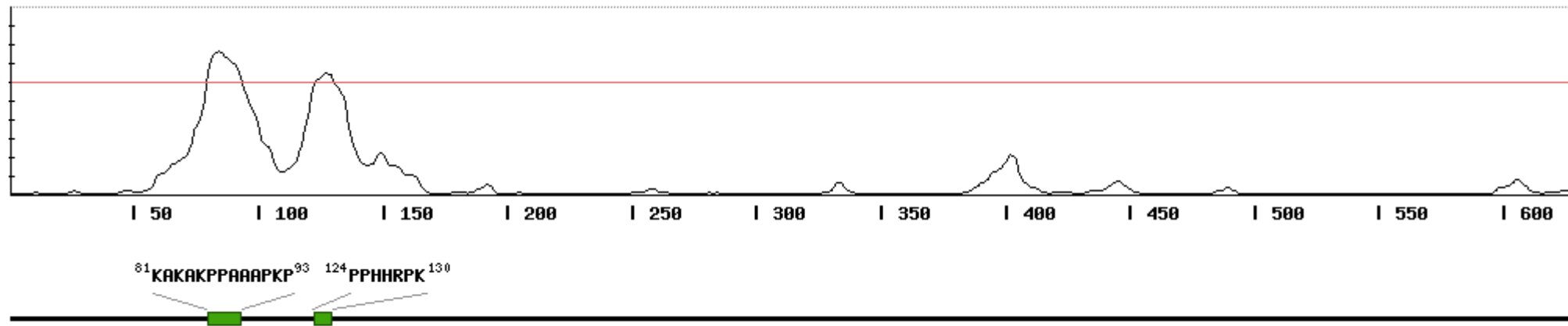


Fig. S5. Nuclear localization signal (NLS) prediction for HvSnRK proteins

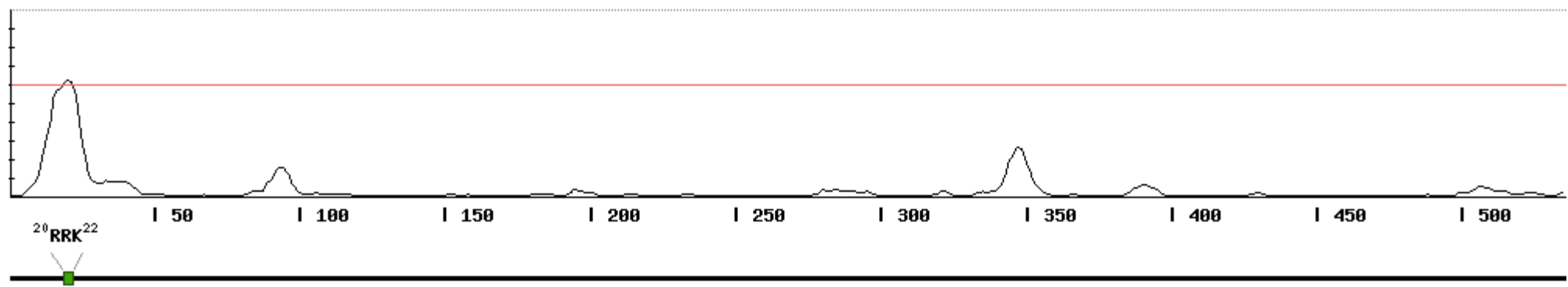


HvSnRK-65

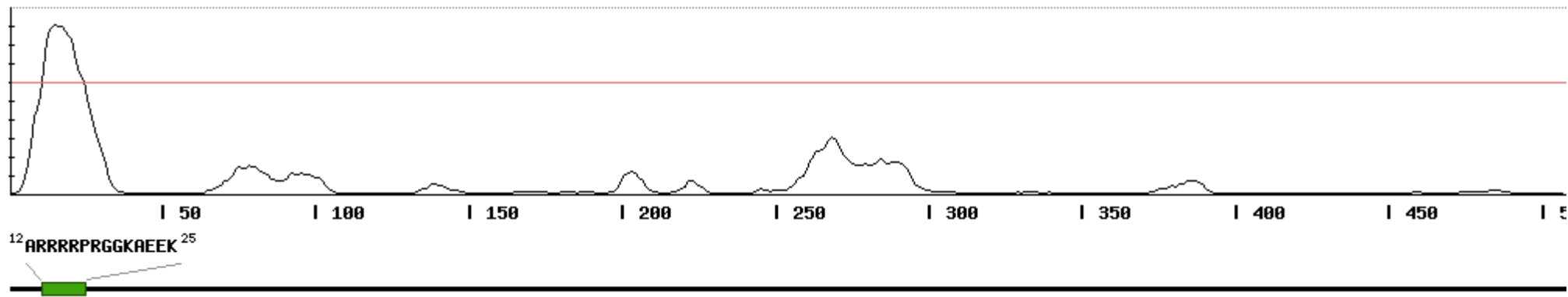


HvSnRK-68

Fig. S6. Nuclear localization signal (NLS) prediction for HvSnRK proteins

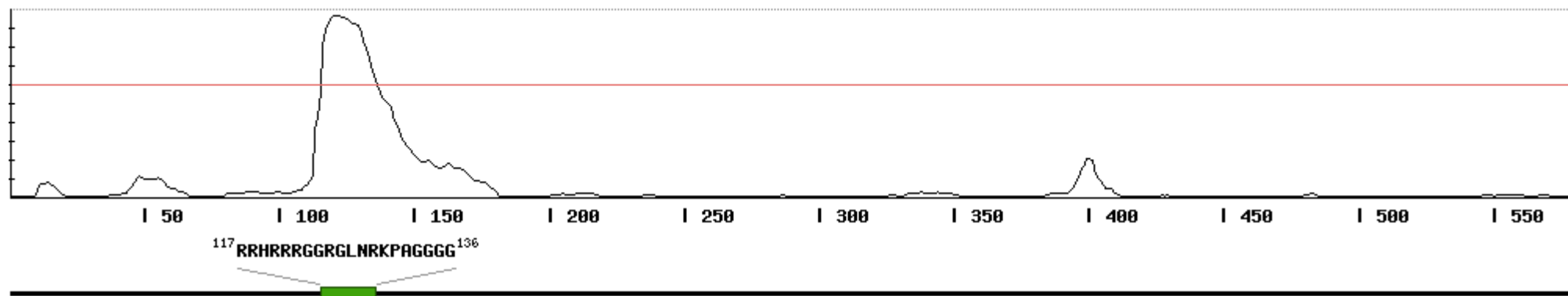


HvSnRK-70

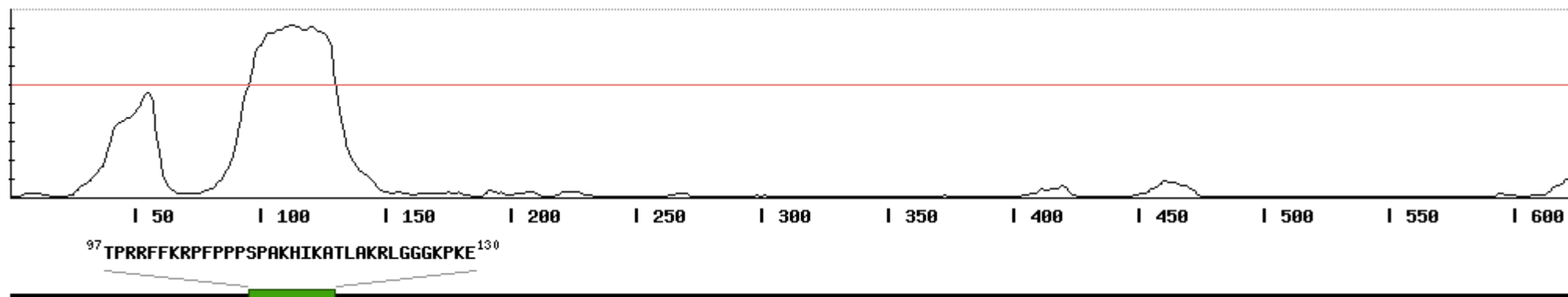


HvSnRK-71

Fig. S7. Nuclear localization signal (NLS) prediction for HvSnRK proteins



HvSnRK-78



HvSnRK-81

Fig. S8. Nuclear localization signal (NLS) prediction for HvSnRK proteins

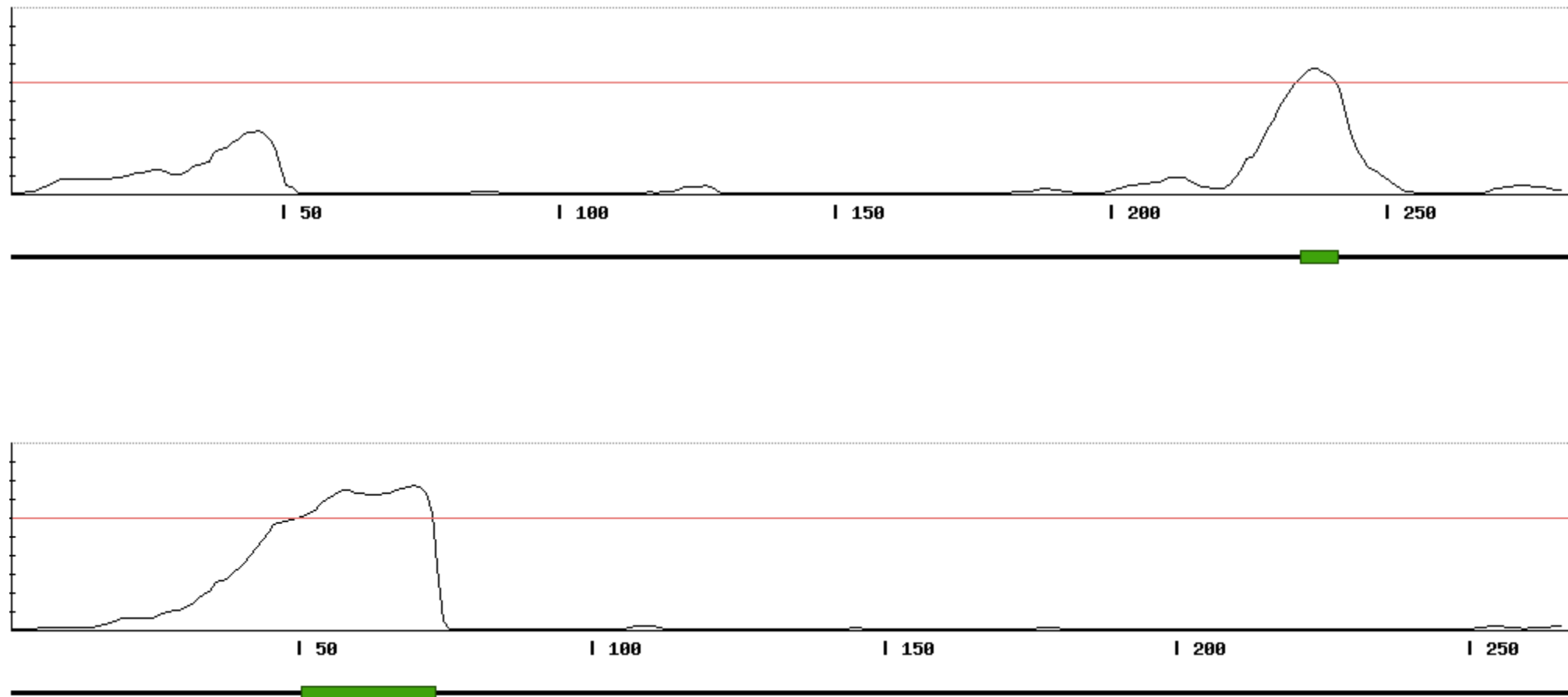


Fig. S9. Nuclear localization signal (NLS) prediction for HvSnRK proteins

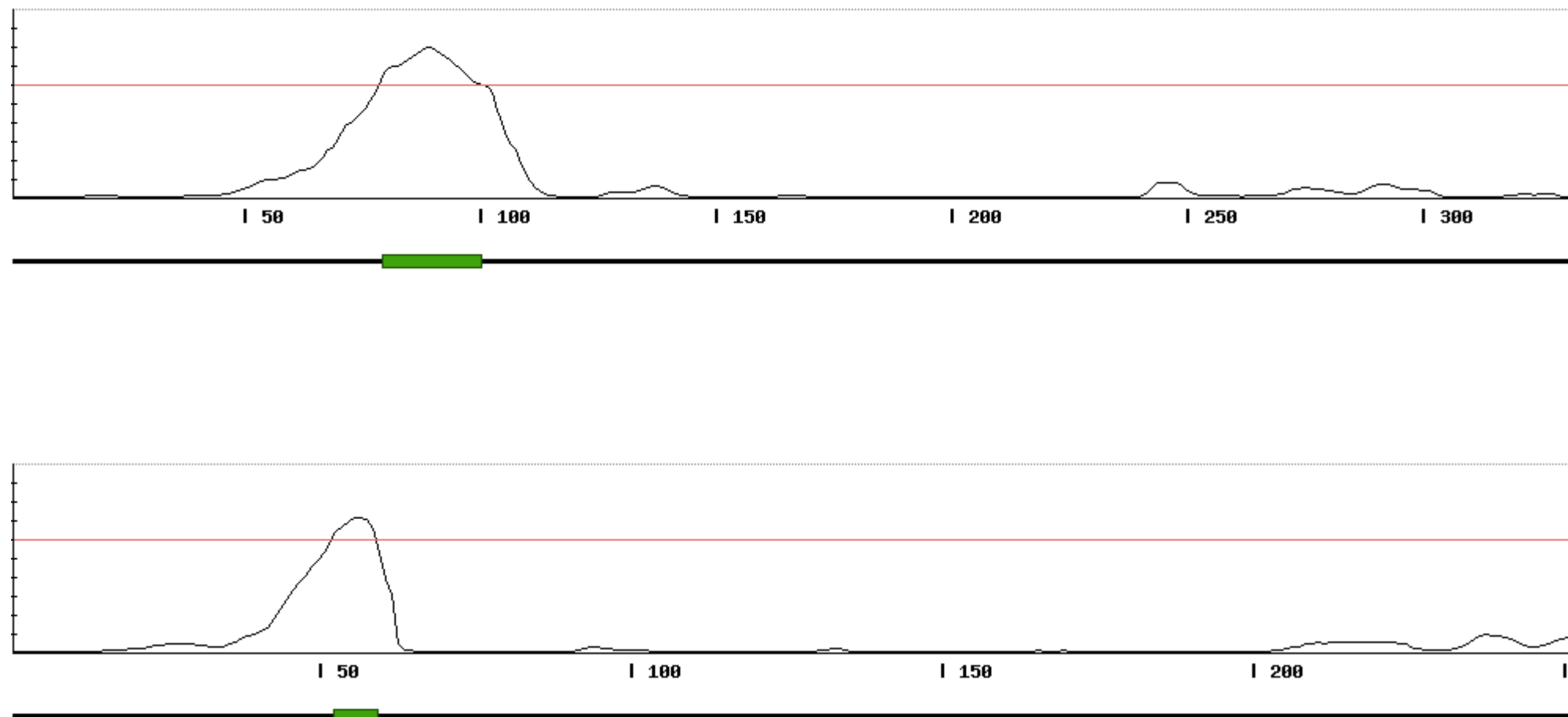


Fig. S10. Nuclear localization signal (NLS) prediction for HvSnRK proteins

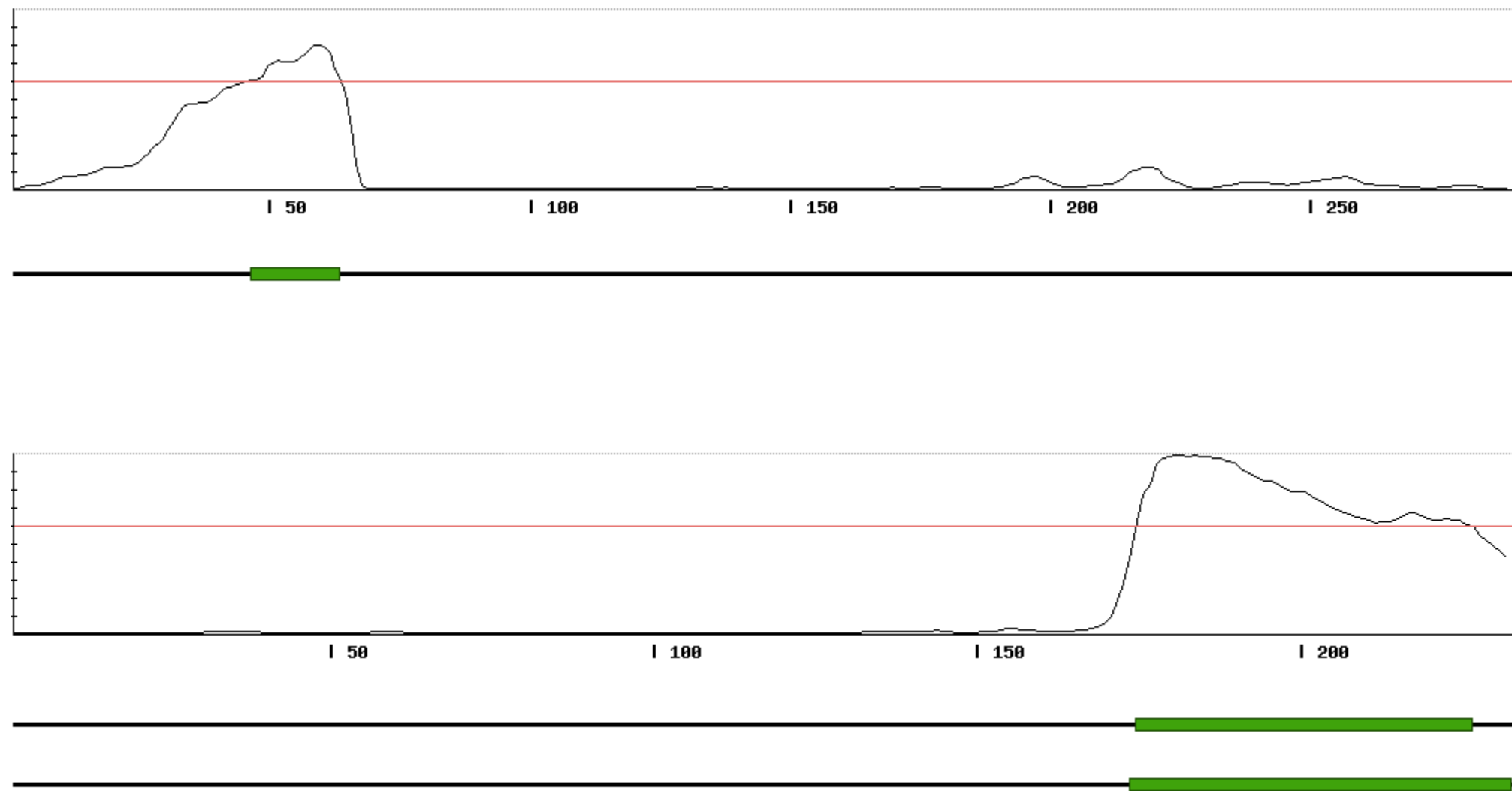


Fig. S11. Nuclear localization signal (NLS) prediction for HvSnRK proteins

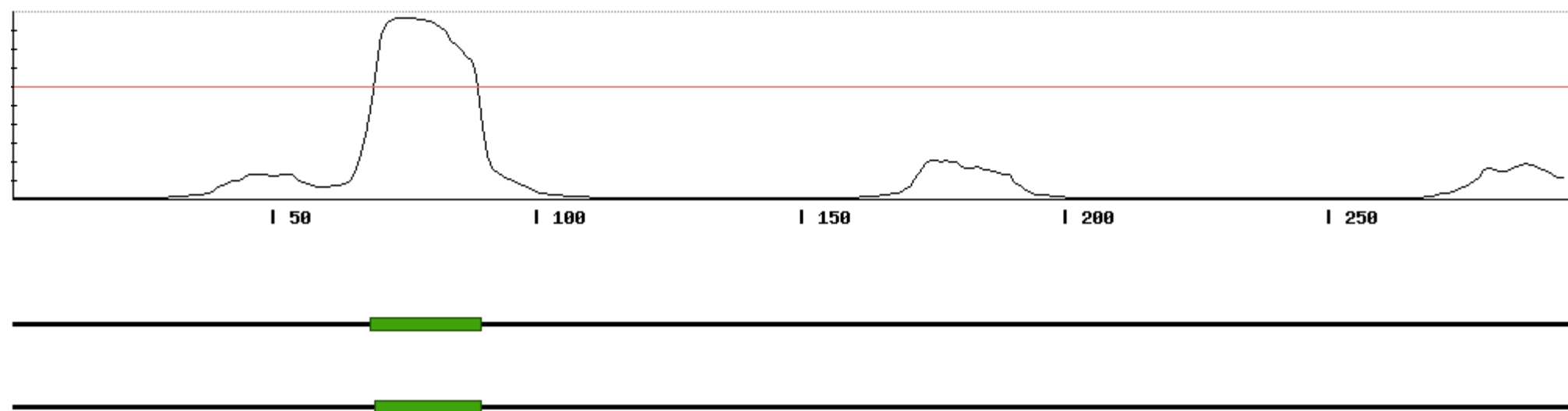


Fig. S12. Nuclear localization signal (NLS) prediction for HvSnRK proteins

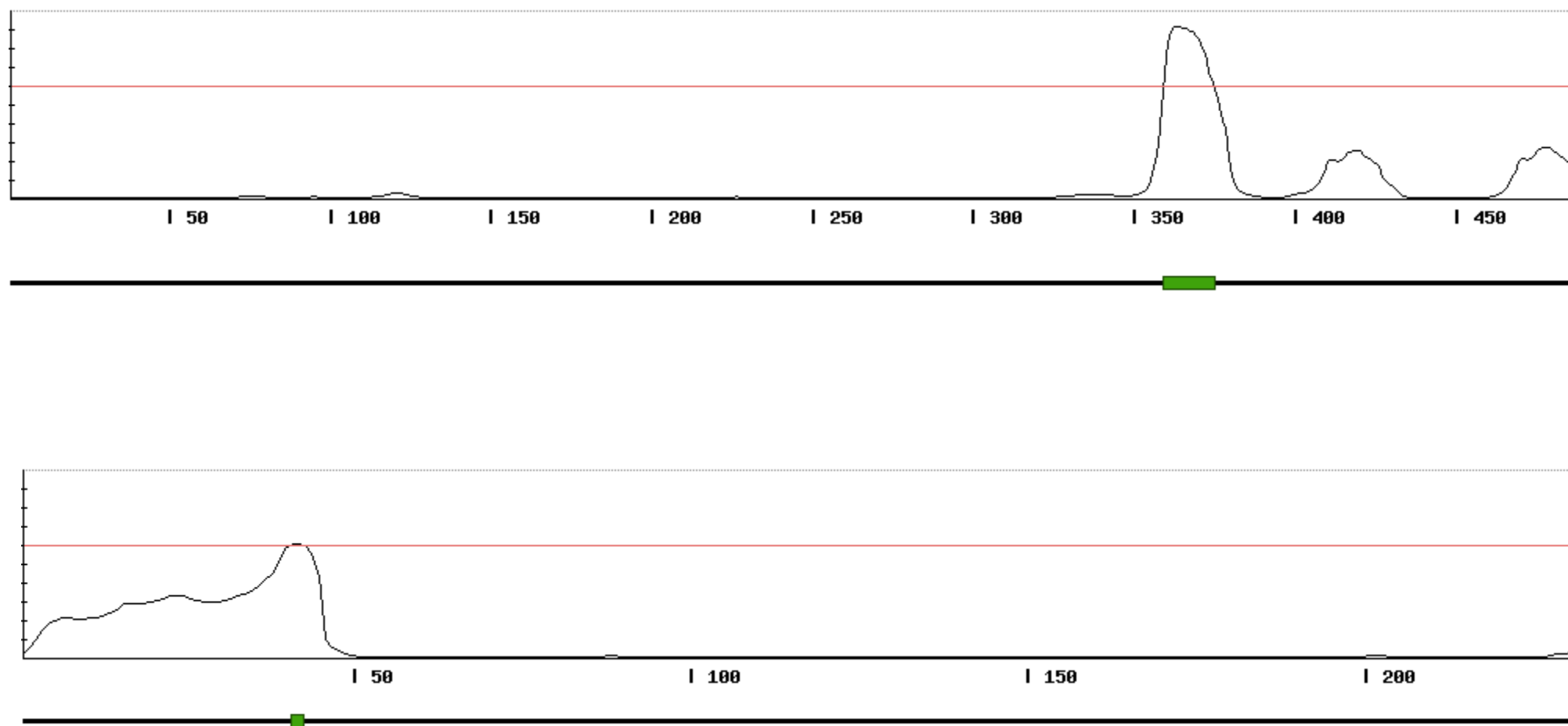


Fig. S13. Nuclear localization signal (NLS) prediction for HvLEA proteins

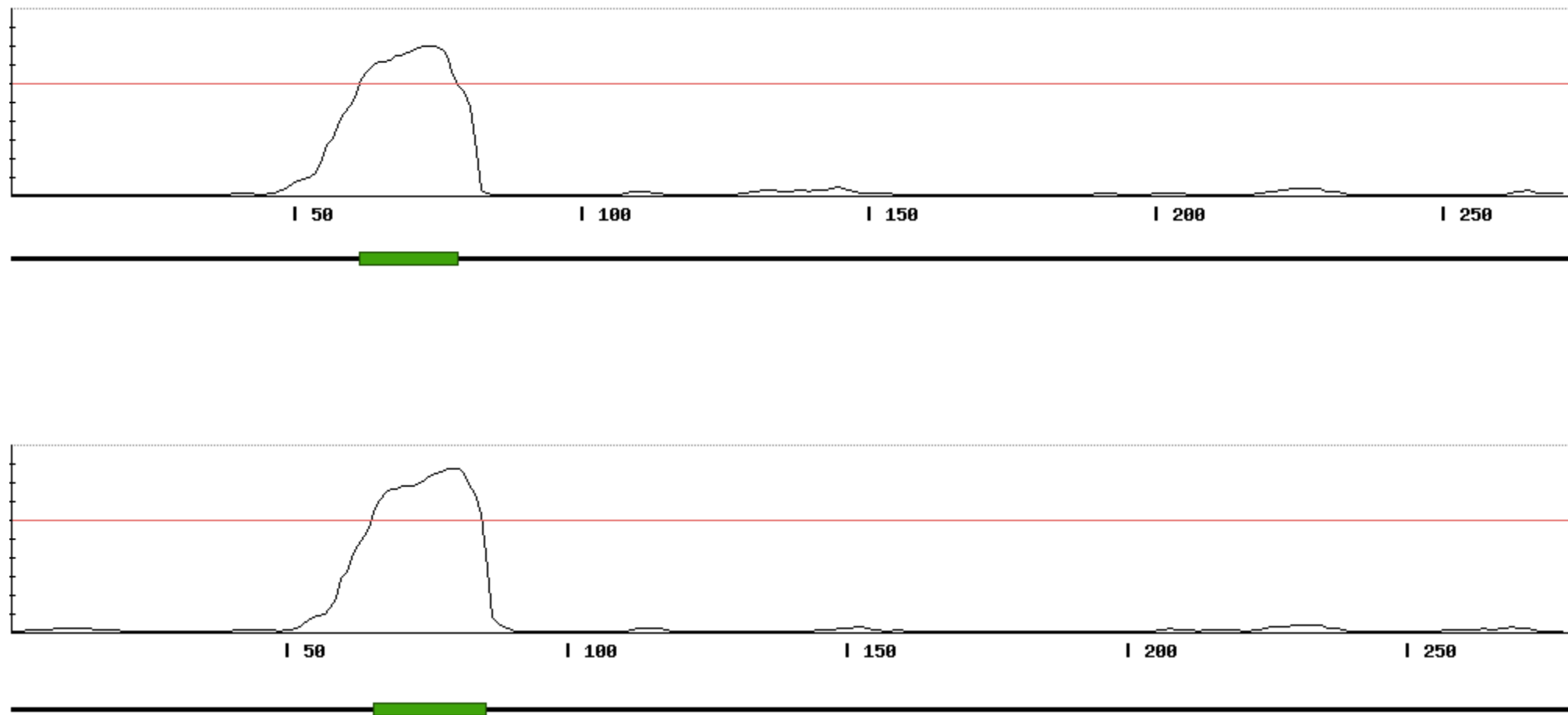


Fig. S14. Nuclear localization signal (NLS) prediction for HvLEA proteins

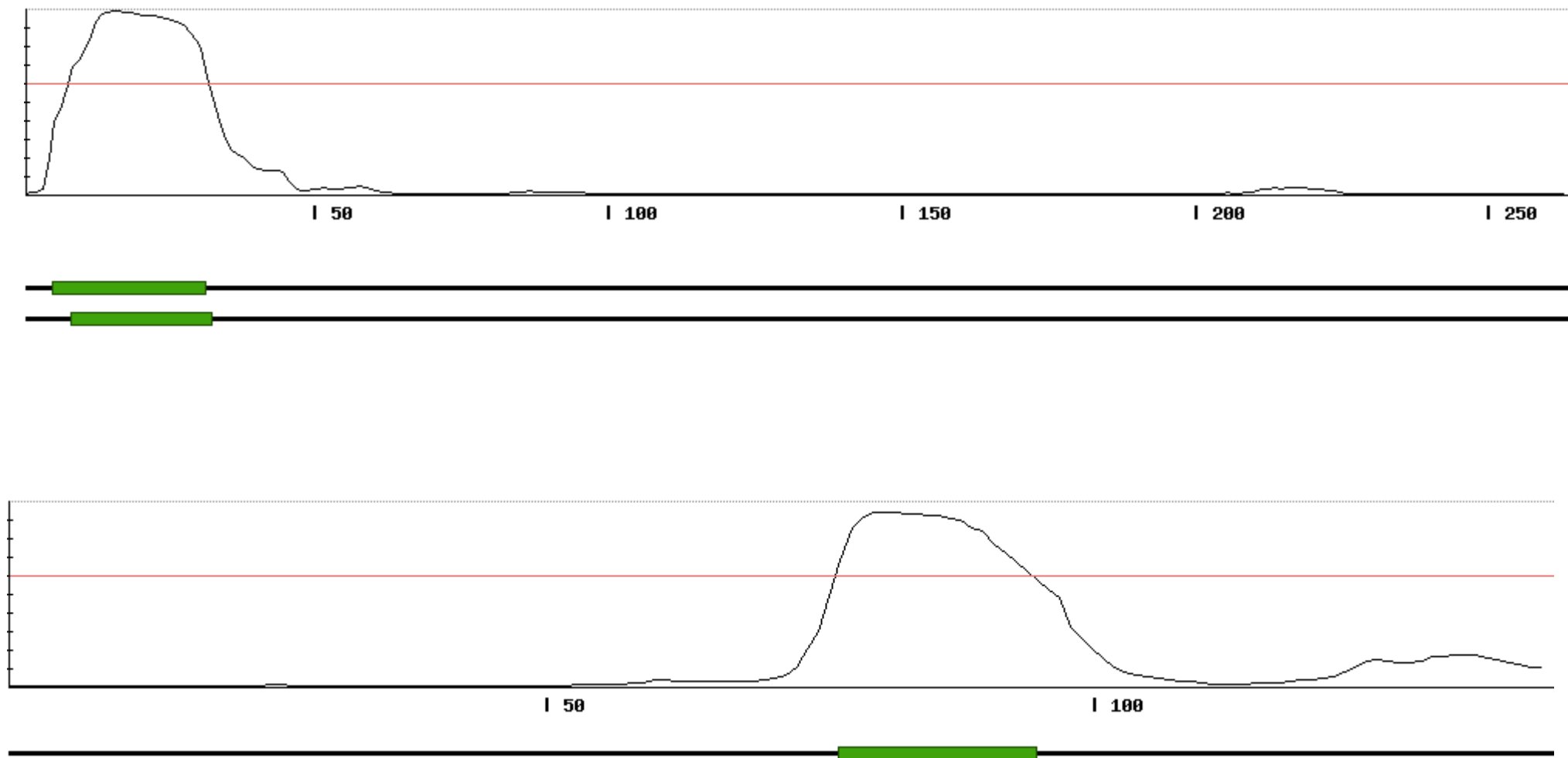


Fig. S15. Nuclear localization signal (NLS) prediction for HvLEA proteins

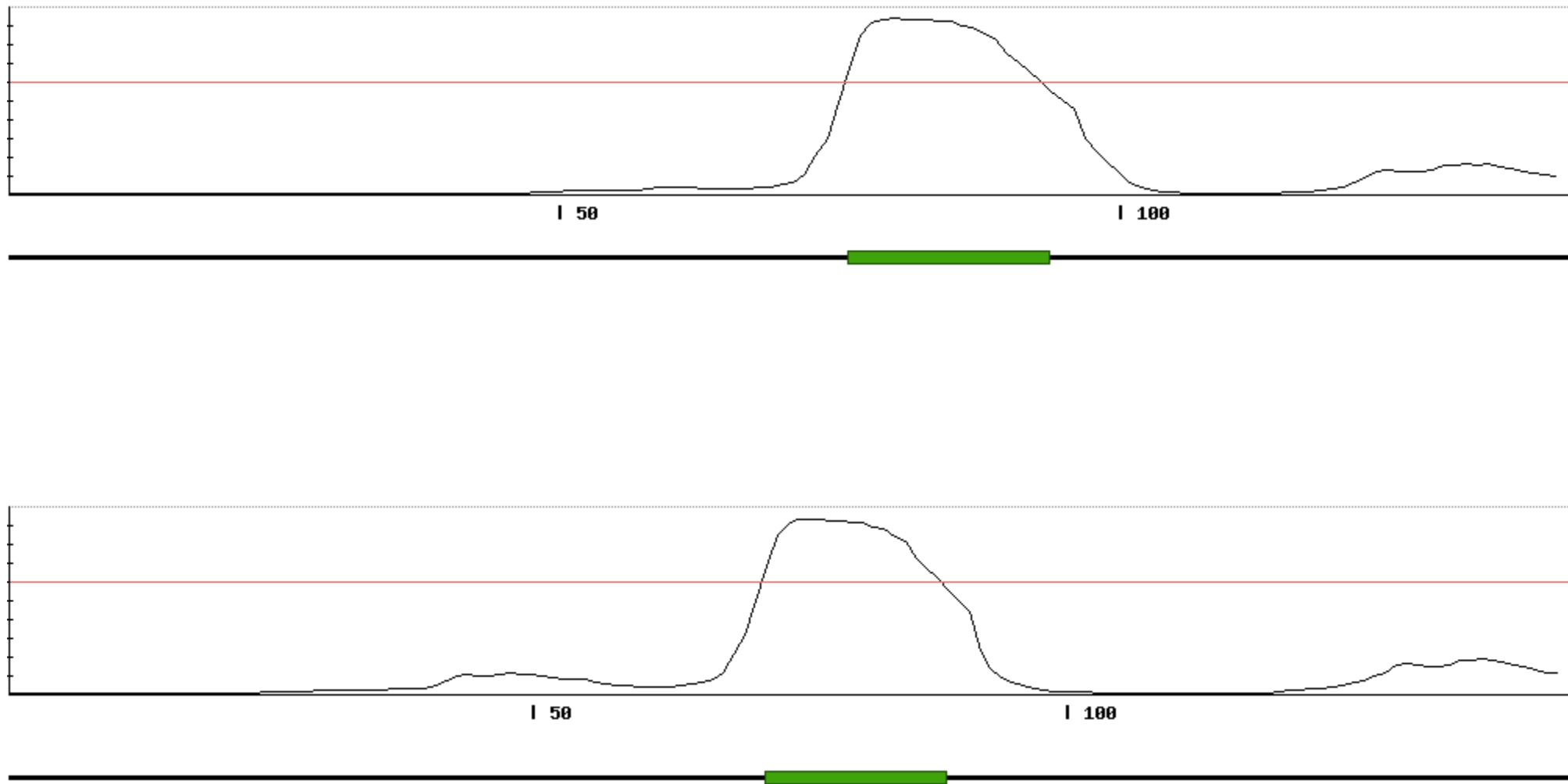


Fig. S16. Nuclear localization signal (NLS) prediction for HvLEA proteins

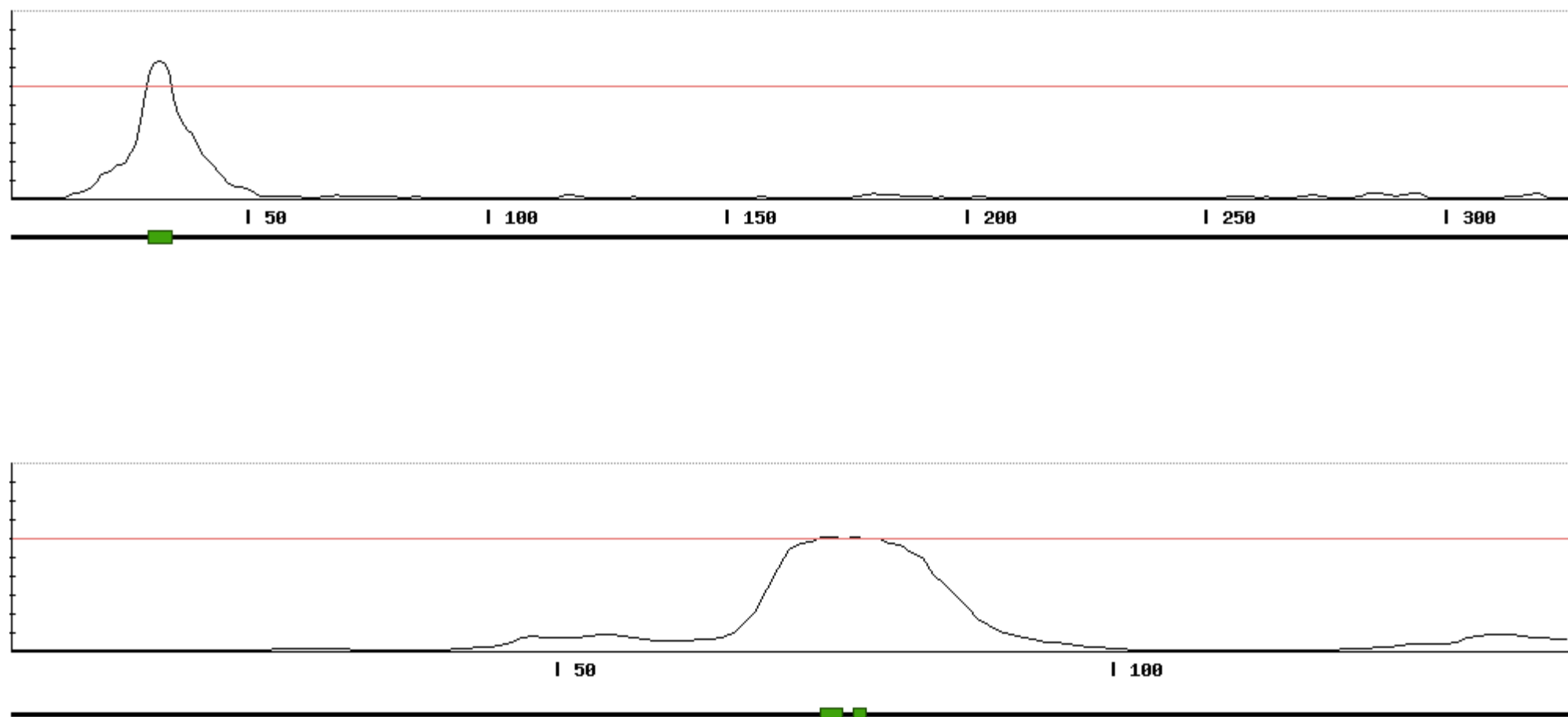


Fig. S17. Nuclear localization signal (NLS) prediction for HvLEA proteins

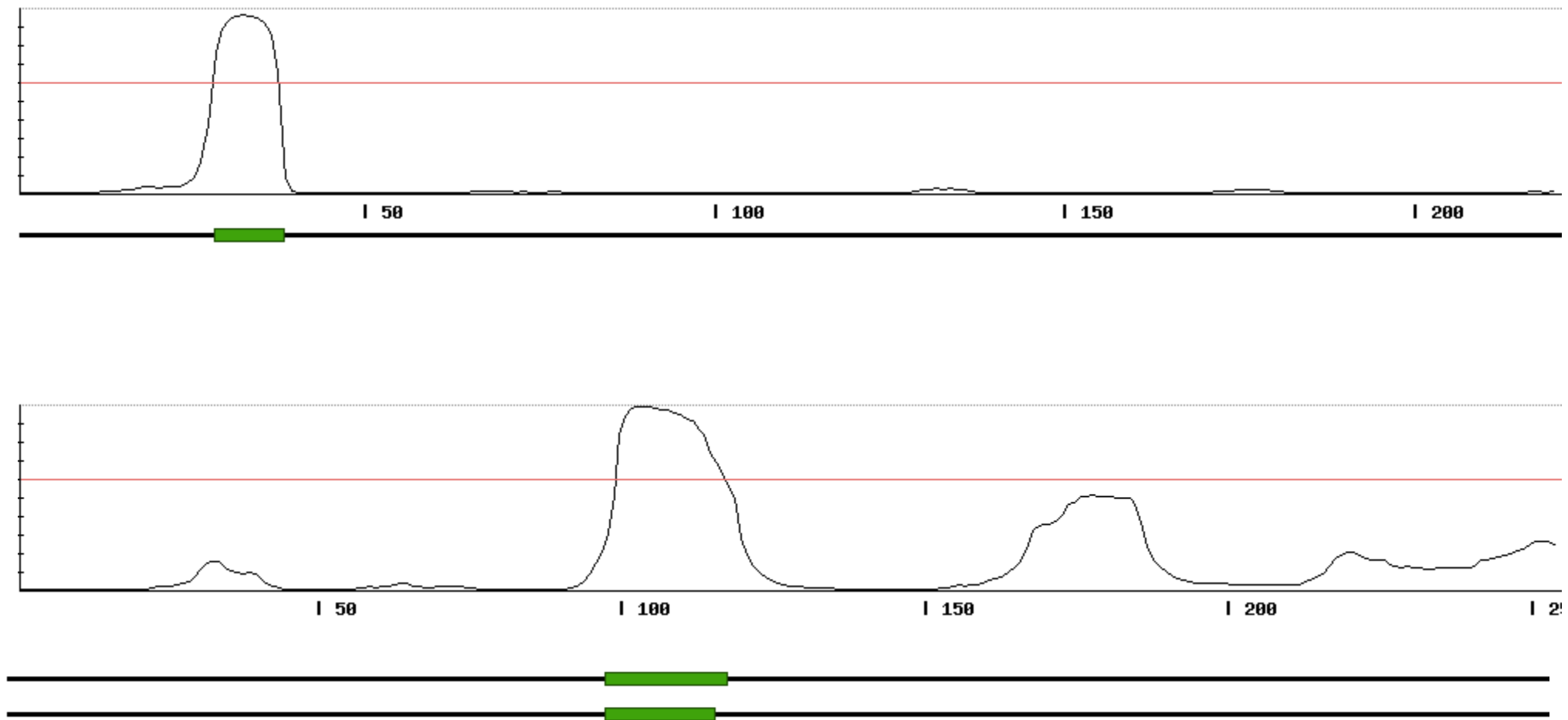


Fig. S18. Nuclear localization signal (NLS) prediction for HvLEA proteins

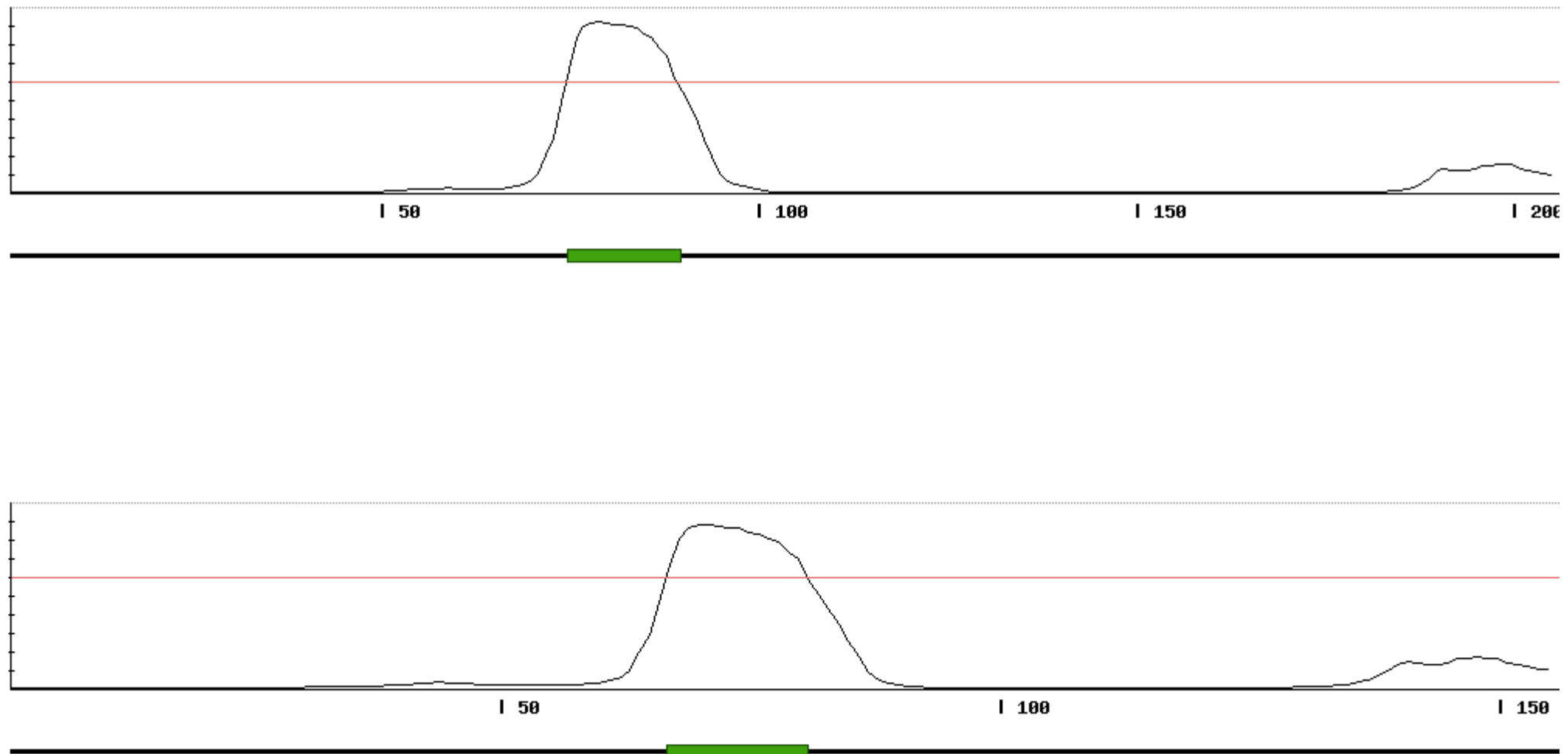


Fig. S19. Nuclear localization signal (NLS) prediction for HvLEA proteins

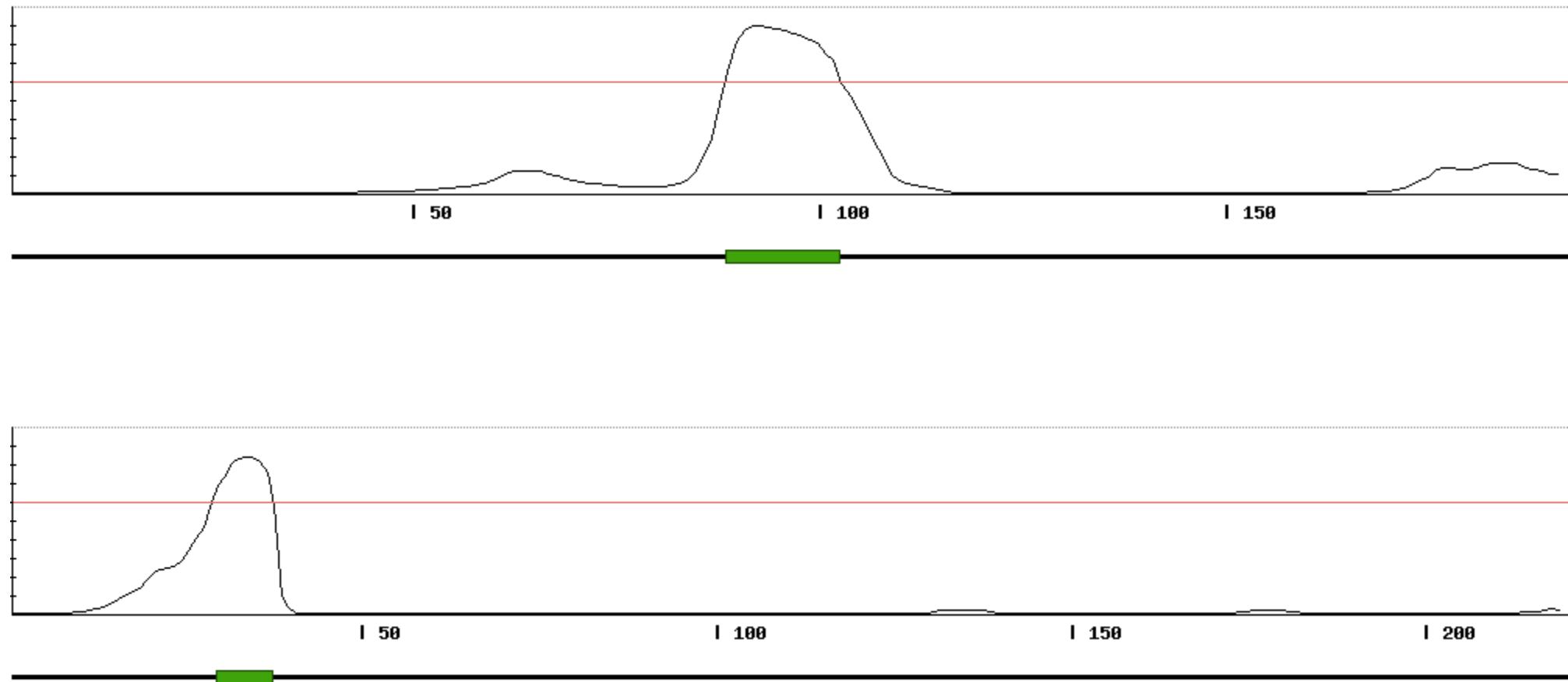


Fig. S20. Nuclear localization signal (NLS) prediction for HvLEA proteins

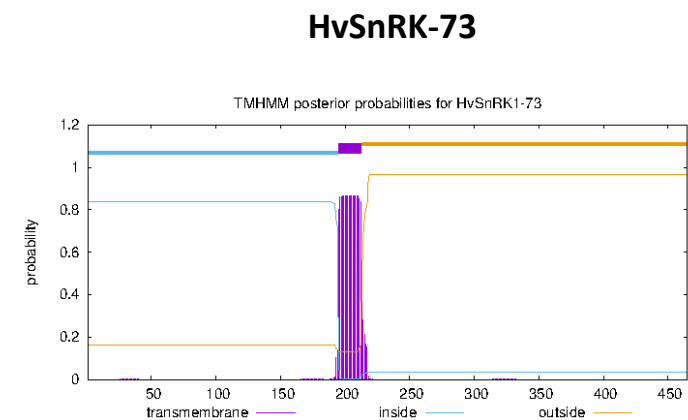
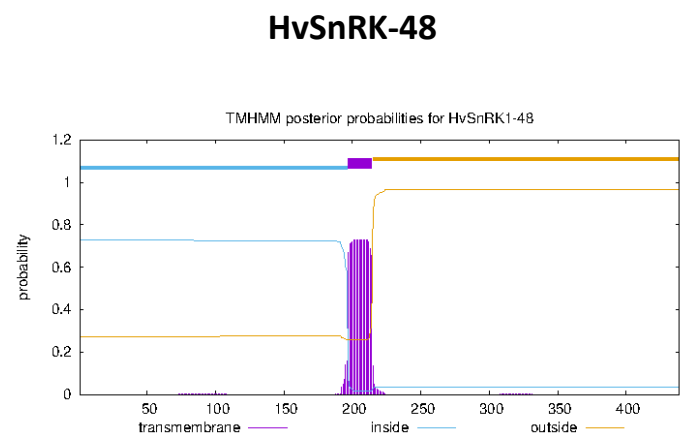
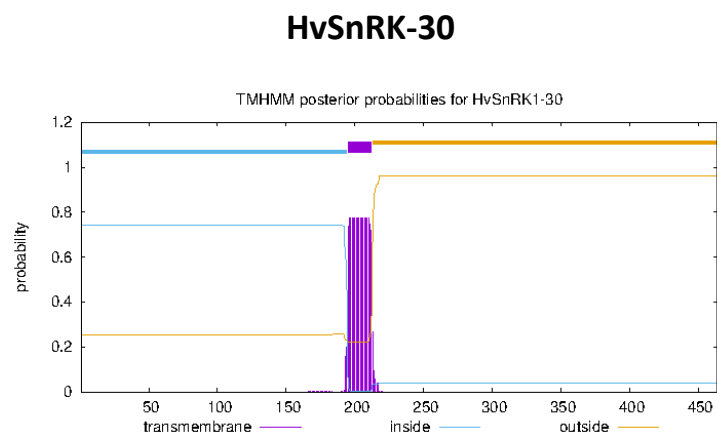
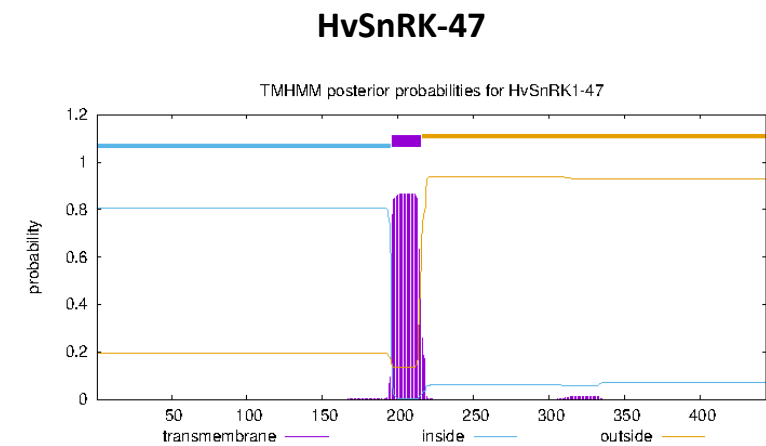
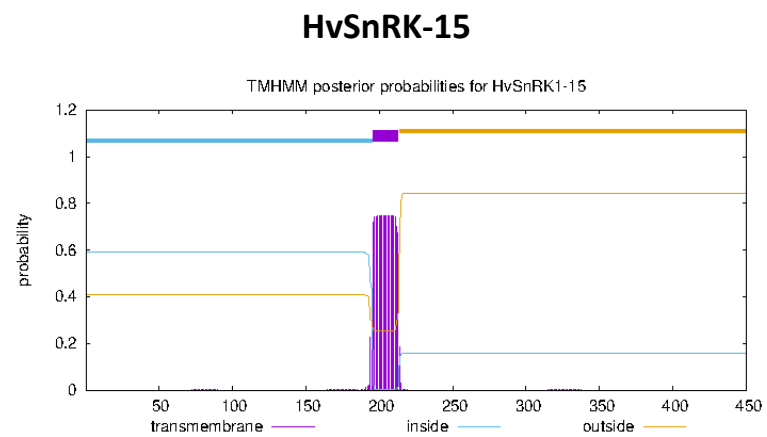
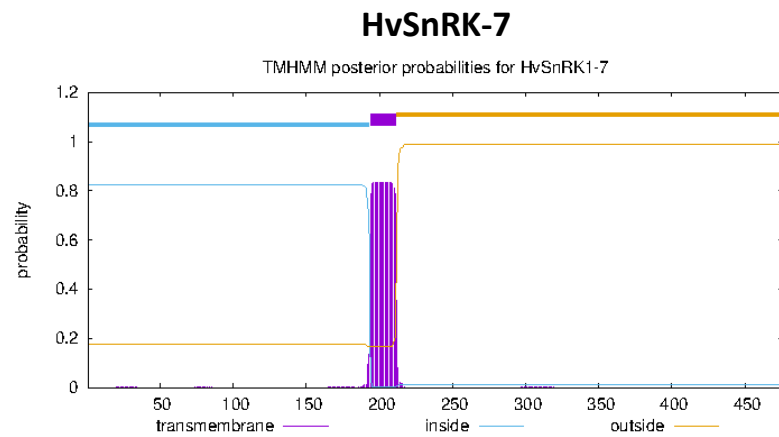


Fig. S21. The transmembrane helical in HvSnRK-7 and HvSnRK-15

HvLEA-1

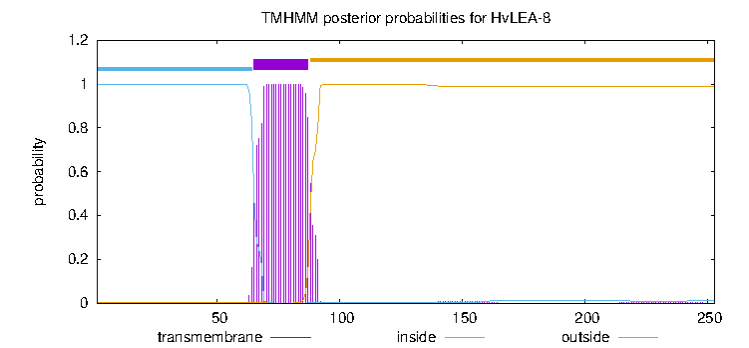
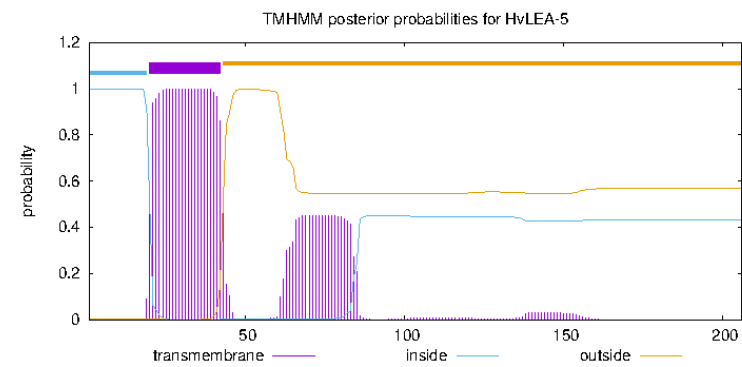
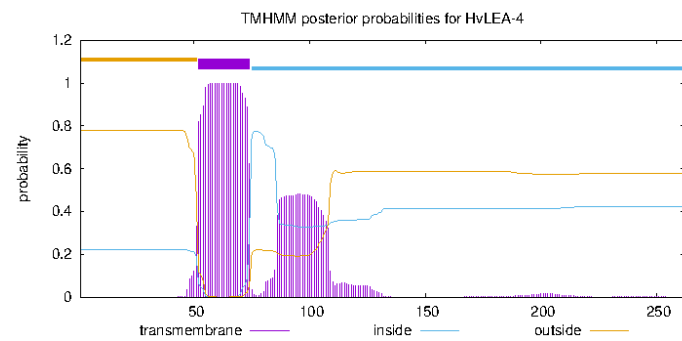
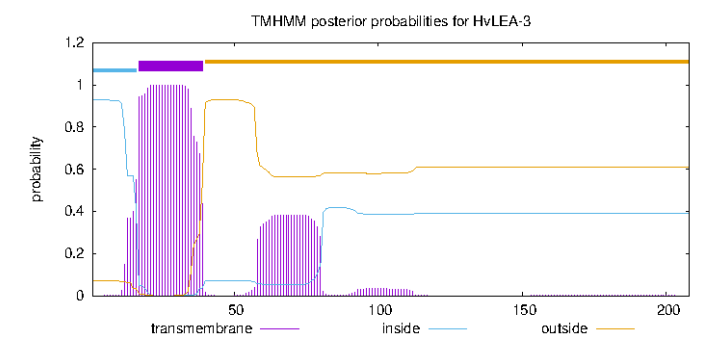
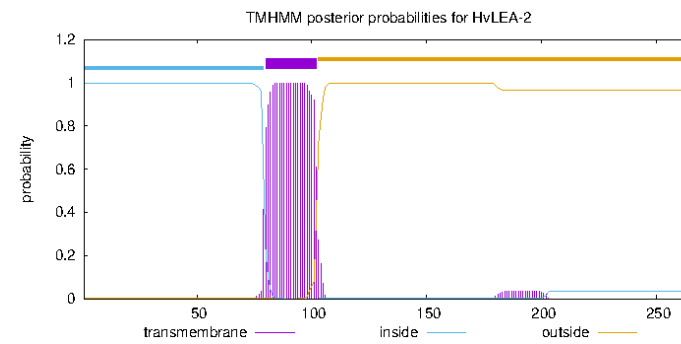
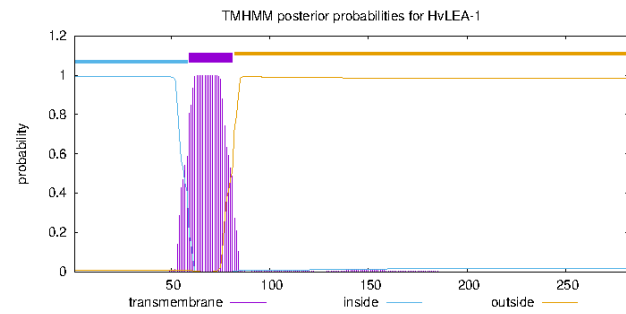


Fig. S22. The transmembrane helical in HvLEA

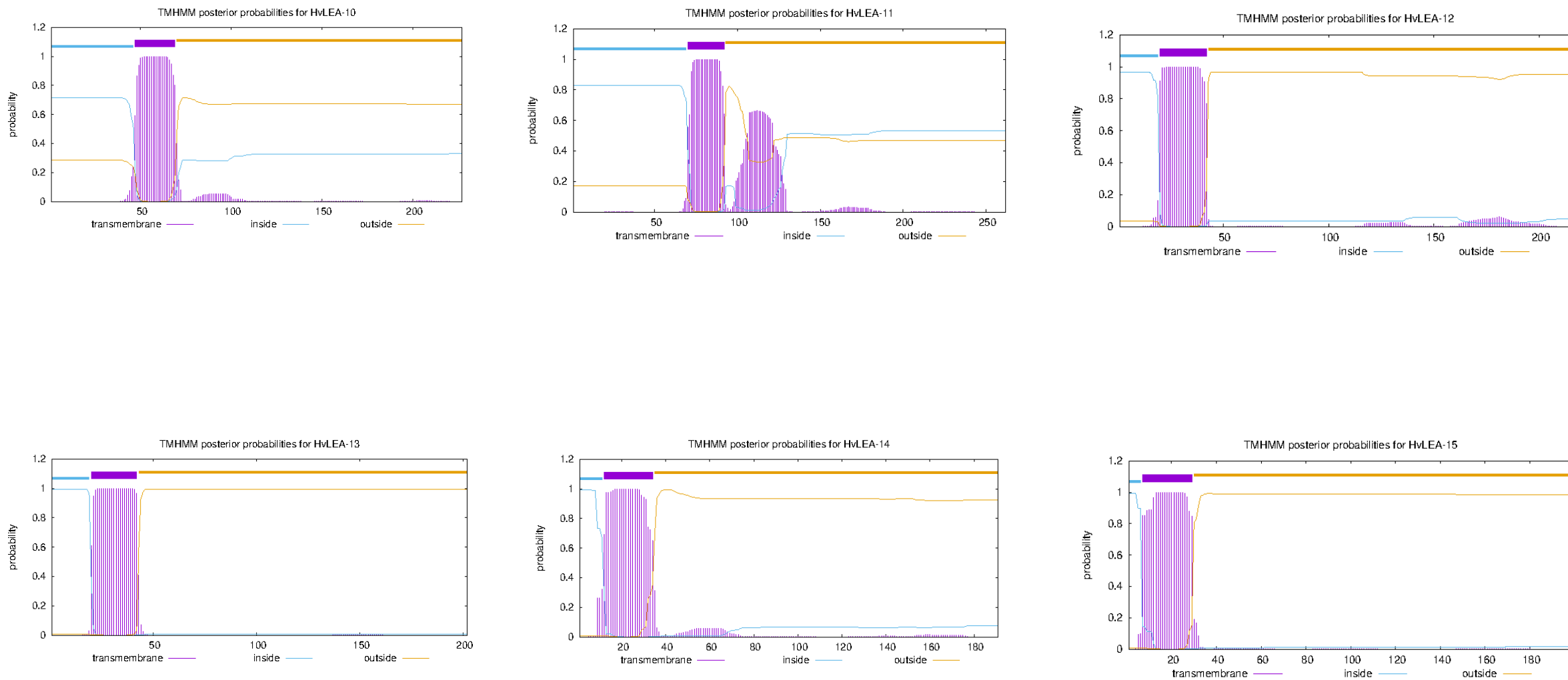


Fig. S23. The transmembrane helical in HvLEA

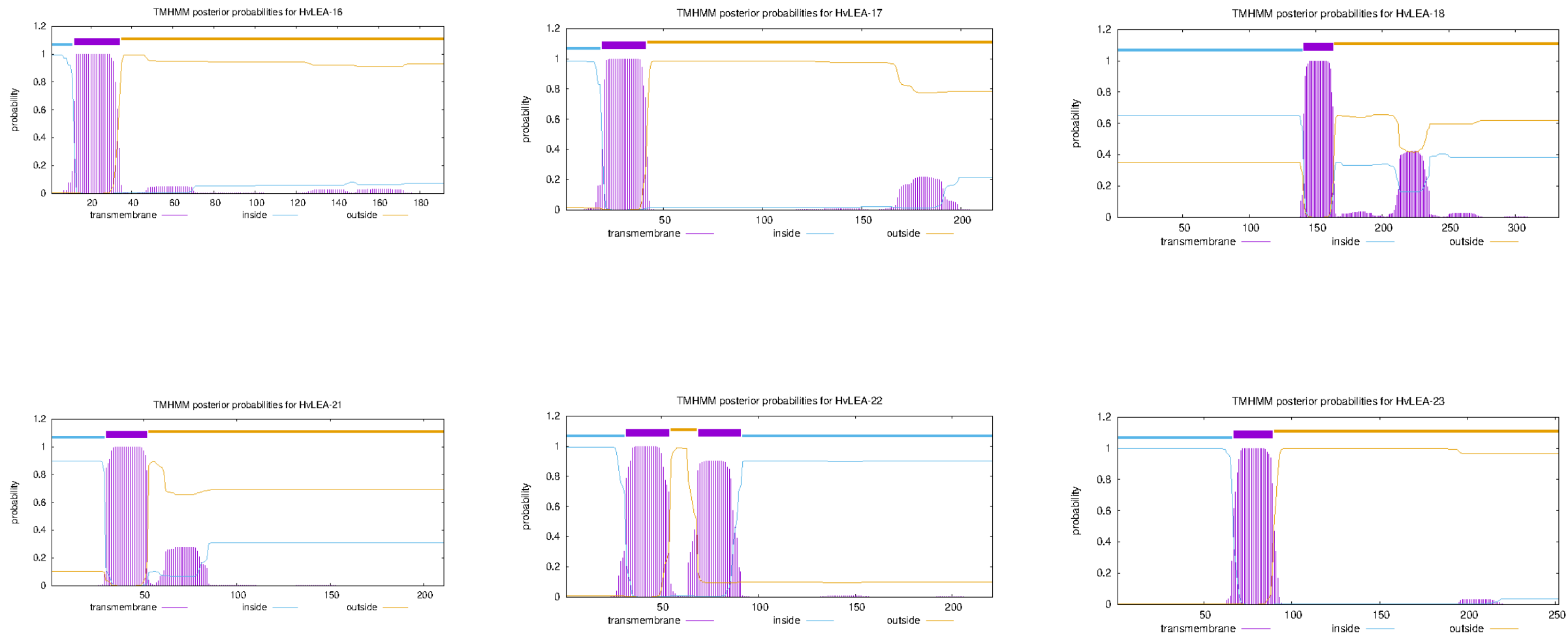


Fig. S24. The transmembrane helical in HvLEA

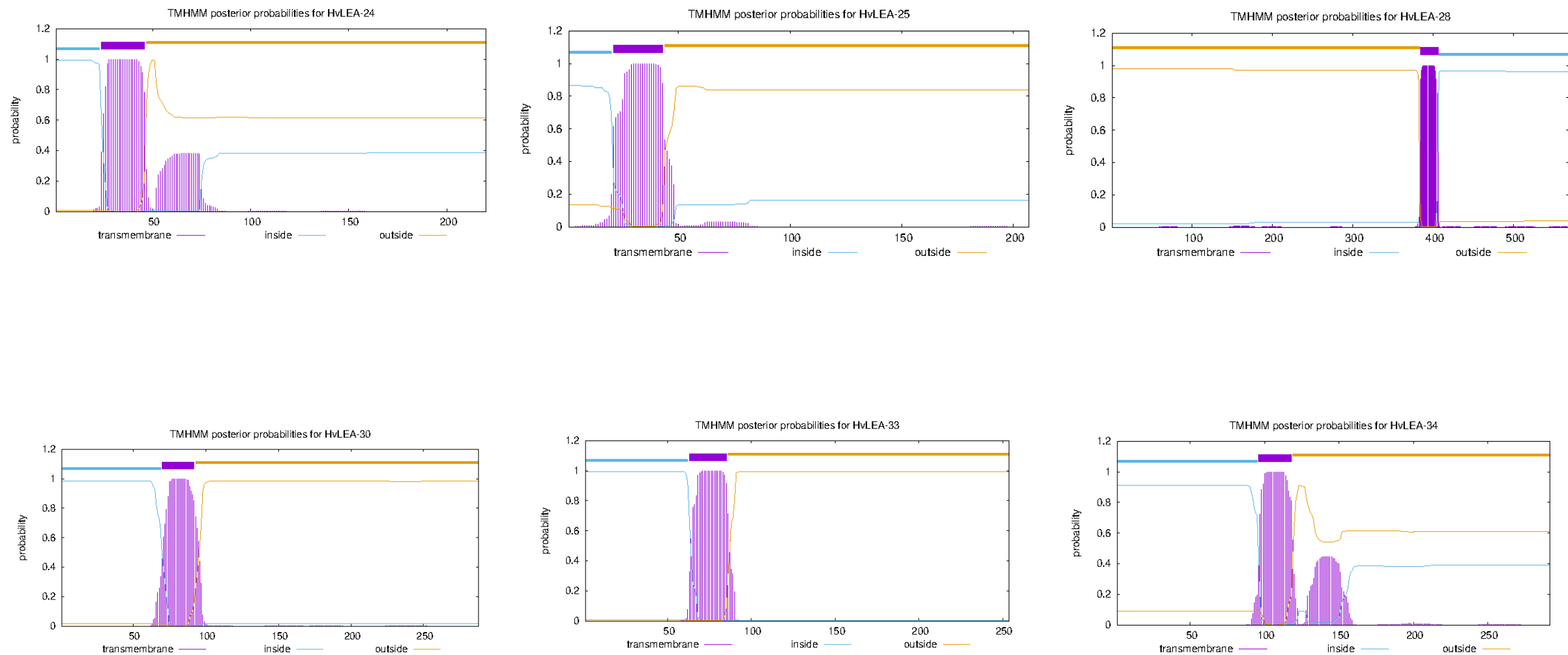


Fig. S25. The transmembrane helical in HvLEA

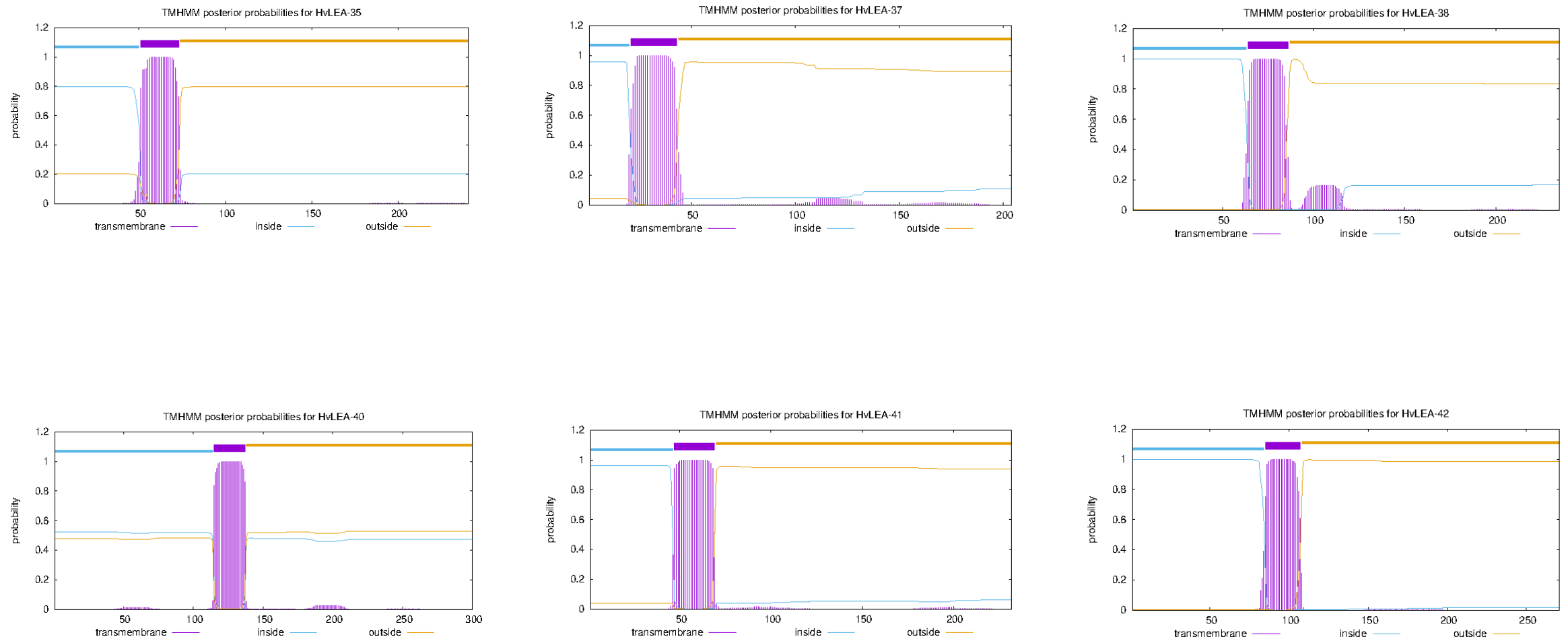


Fig. S26. The transmembrane helical in HvLEA

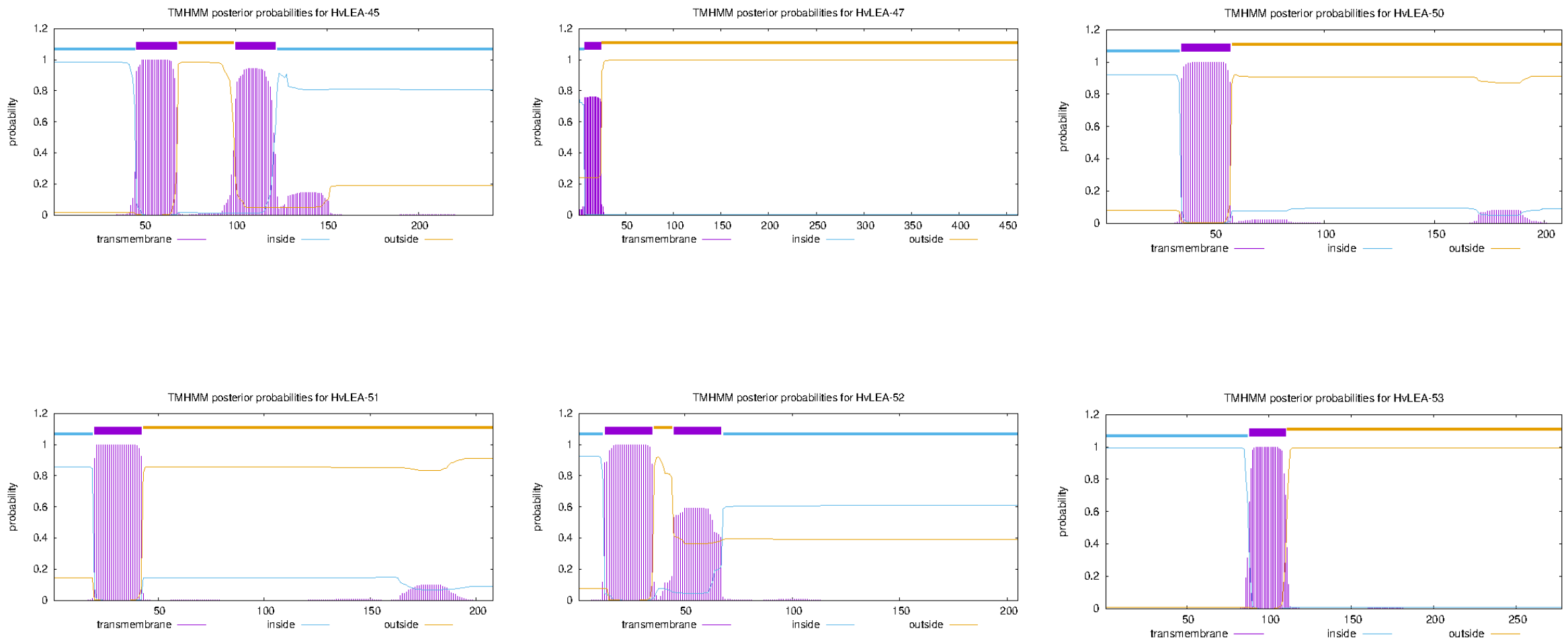


Fig. S27. The transmembrane helical in HvLEA

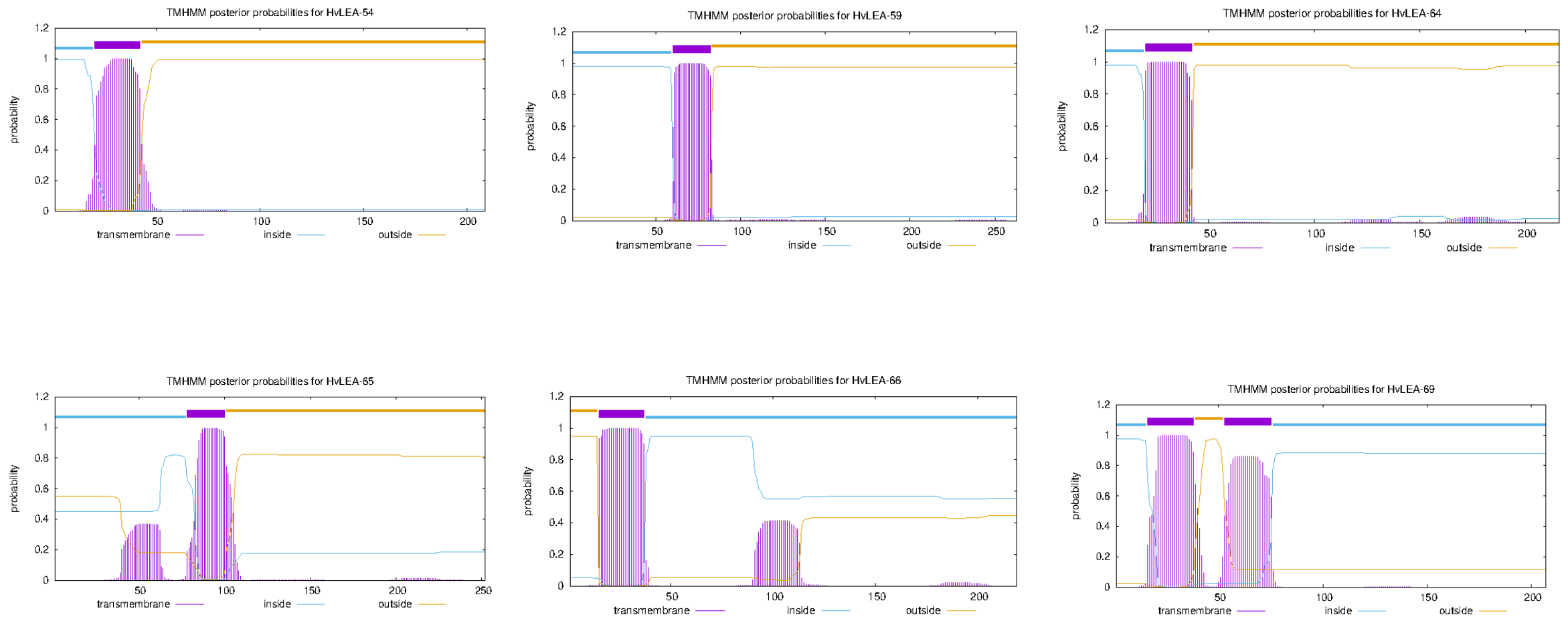


Fig. S28. The transmembrane helical in HvLEA

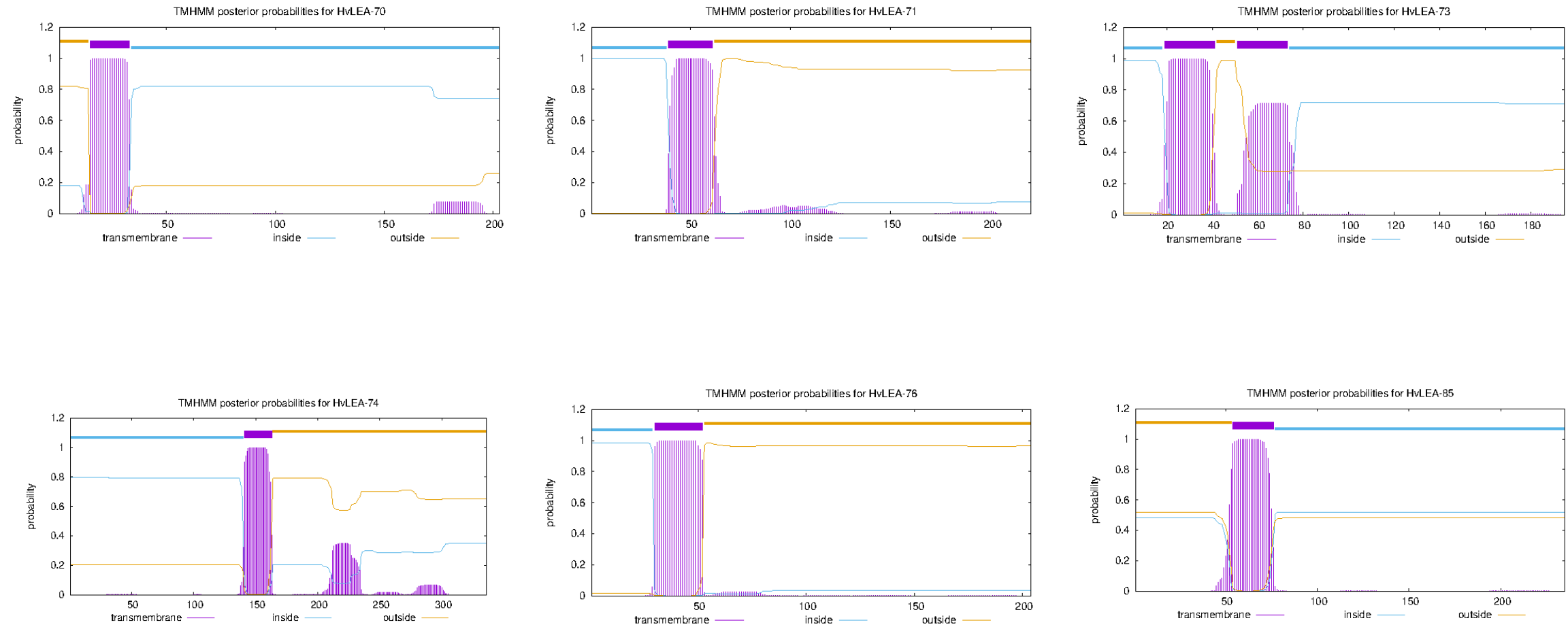


Fig. S29. The transmembrane helical in HvLEA

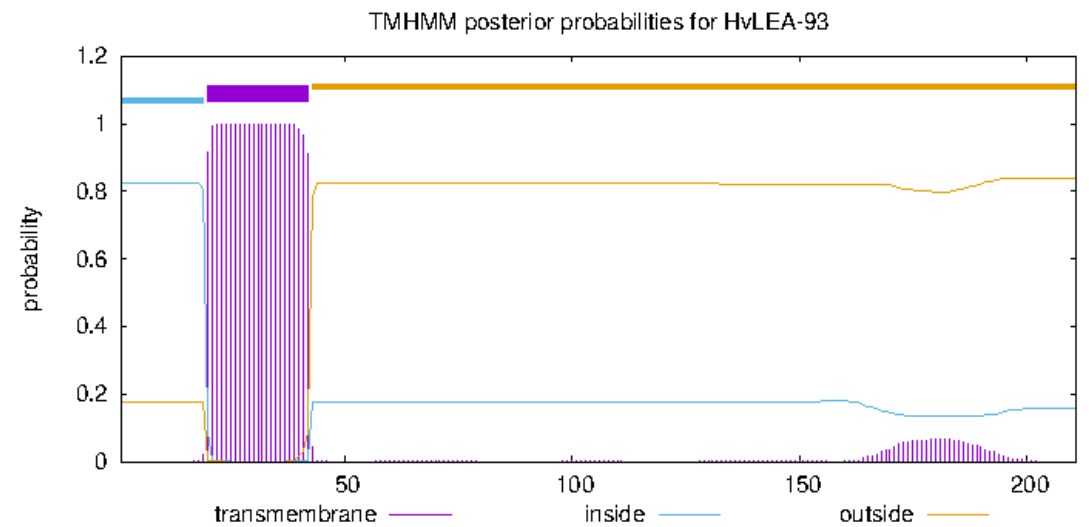
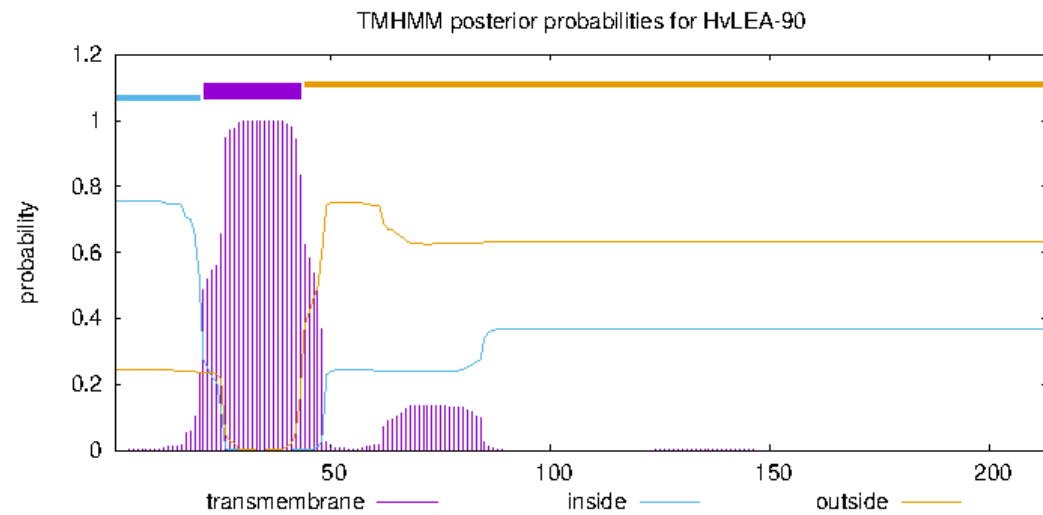
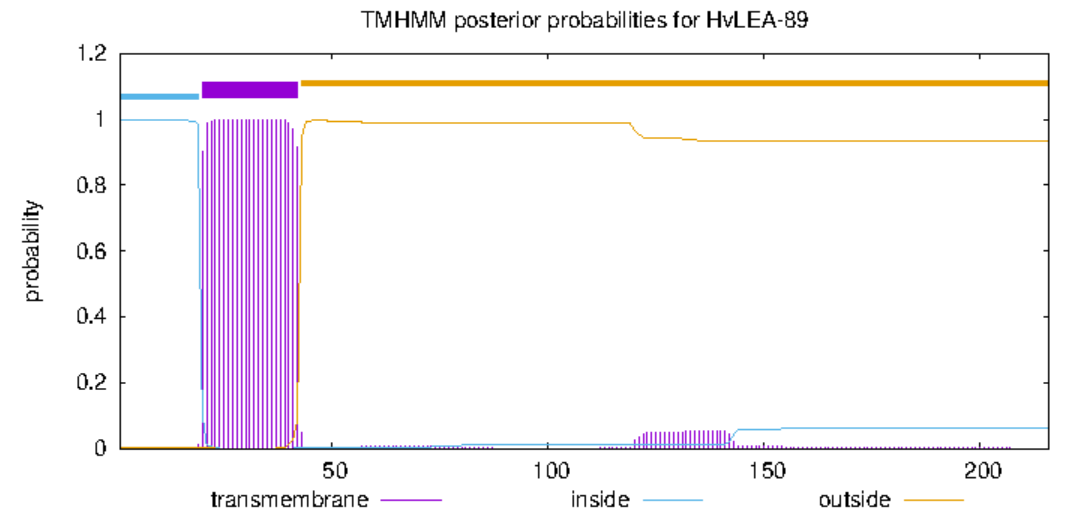
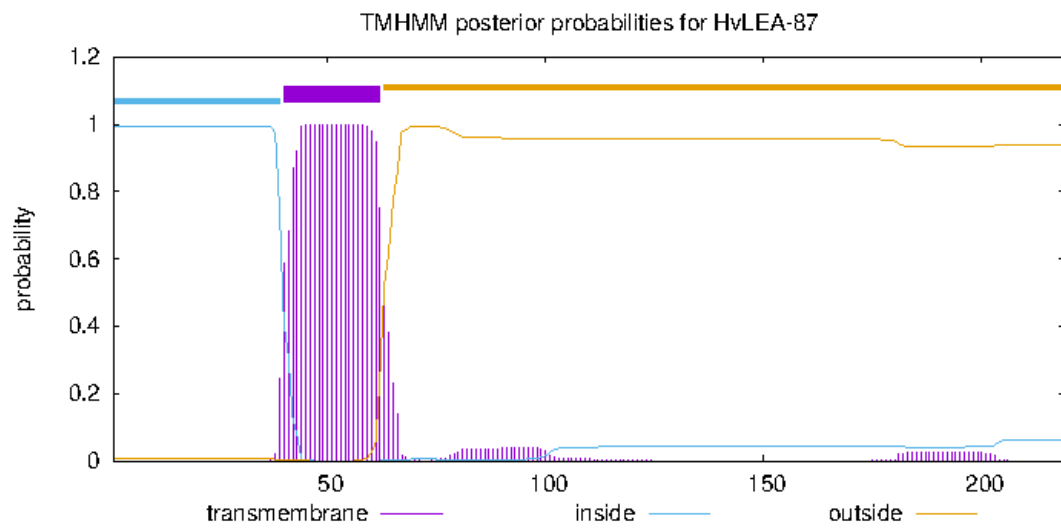
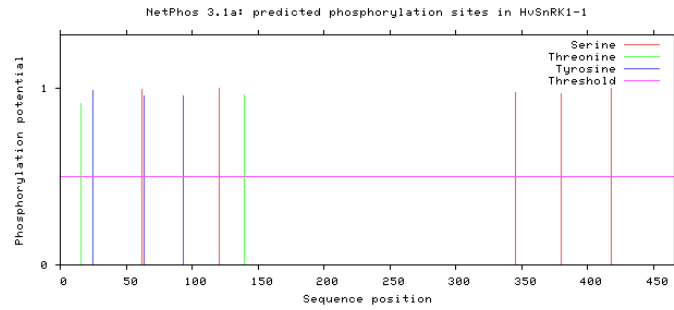
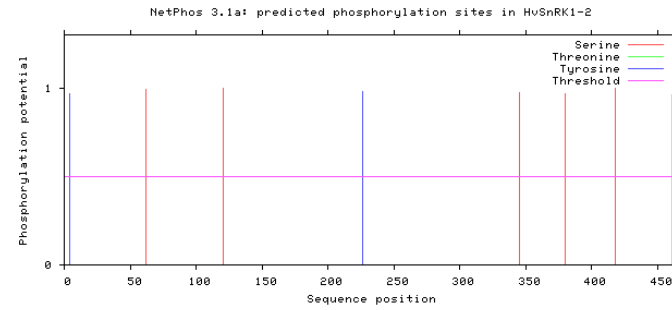


Fig. S30. The transmembrane helical in HvLEA

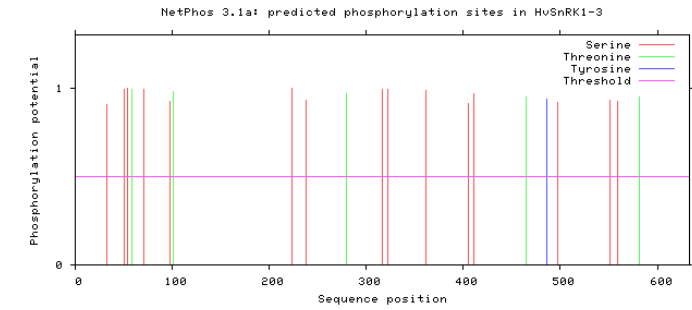
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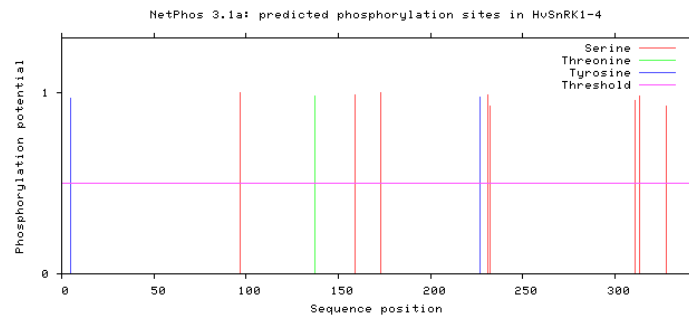
HvSnRK-2



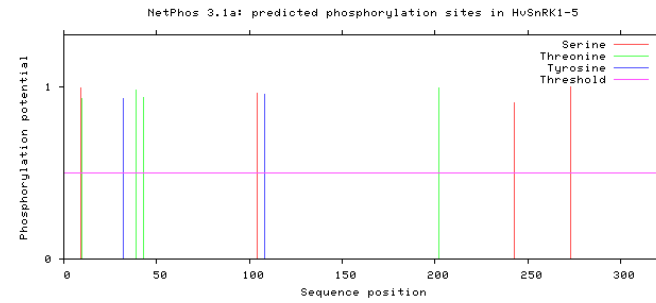
HvSnRK-3



HvSnRK-4



HvSnRK-5



HvSnRK-6

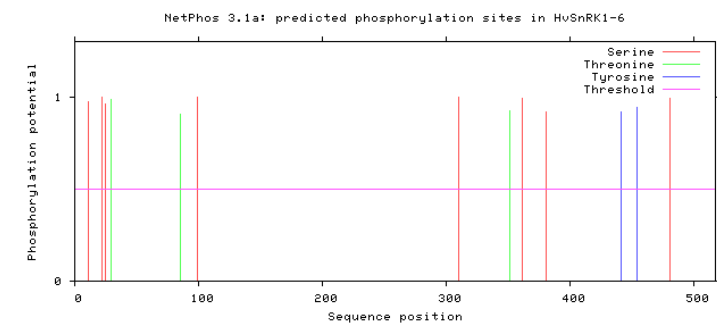
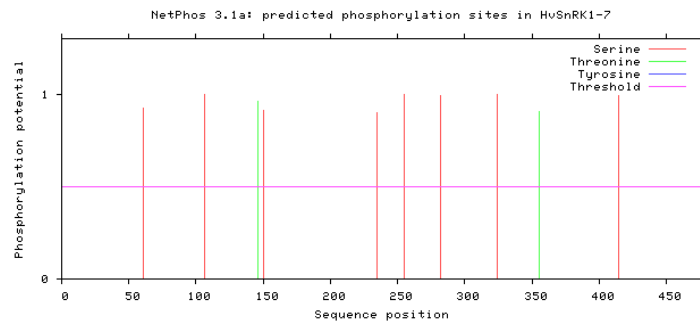
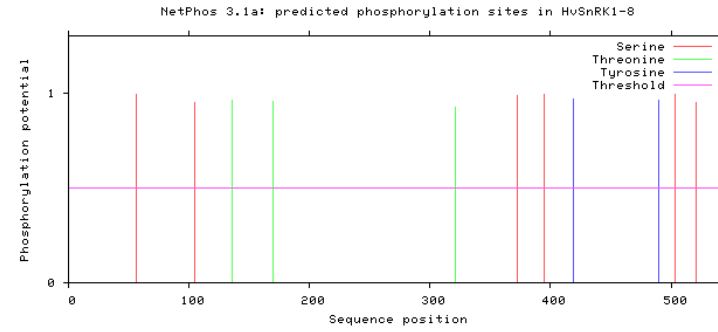
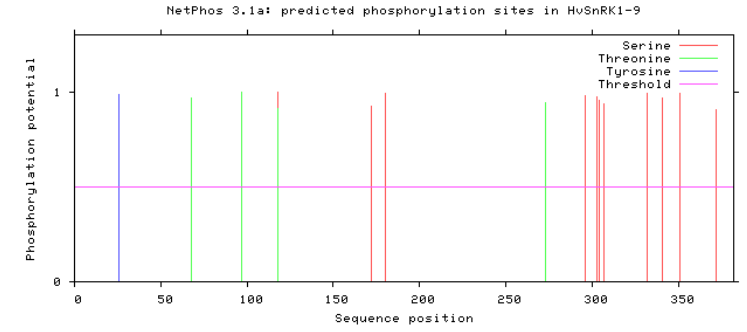
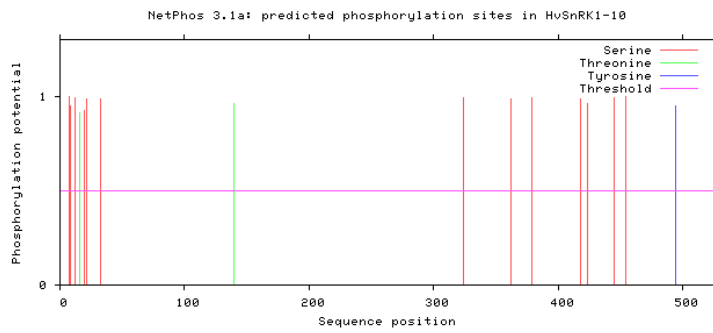
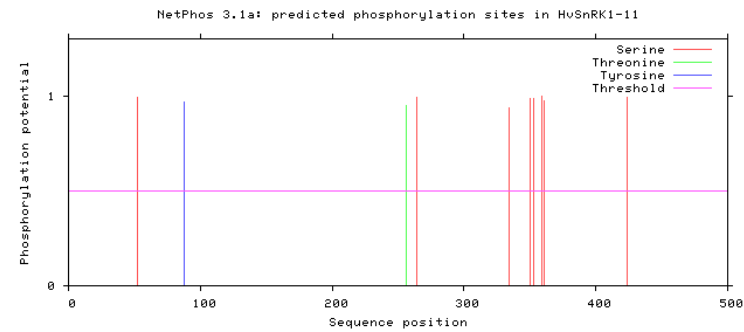
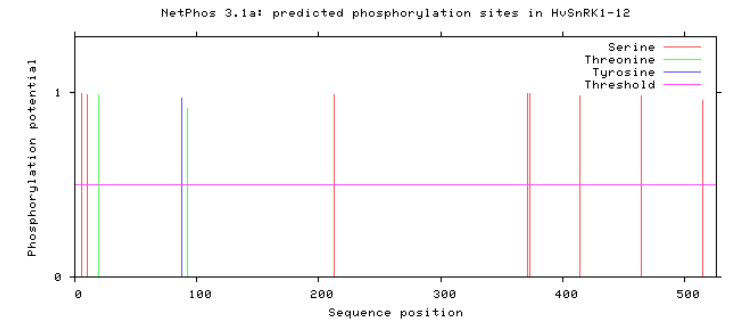
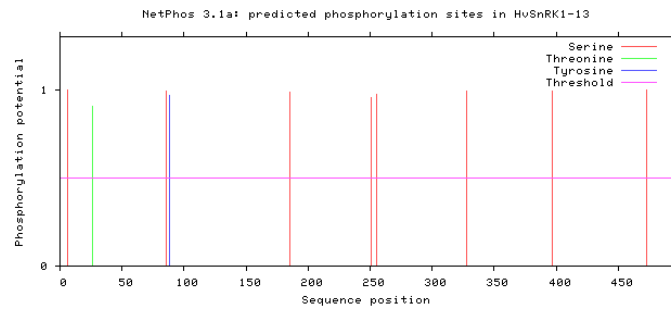


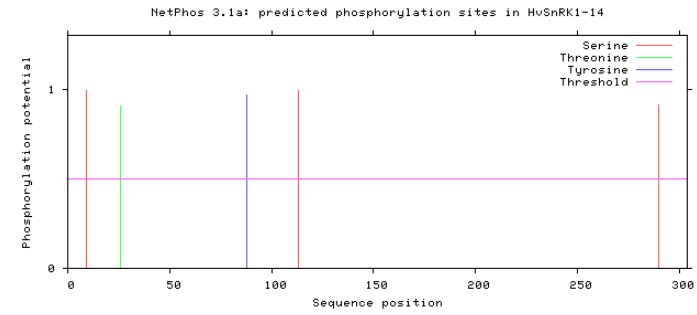
Fig. S31. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

HvSnRK-7**HvSnRK-8****HvSnRK-9****HvSnRK-10****HvSnRK-11****HvSnRK-12****Fig. S32.** HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

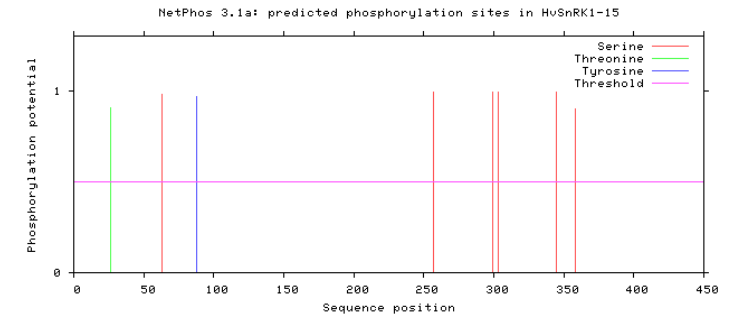
HvSnRK-13



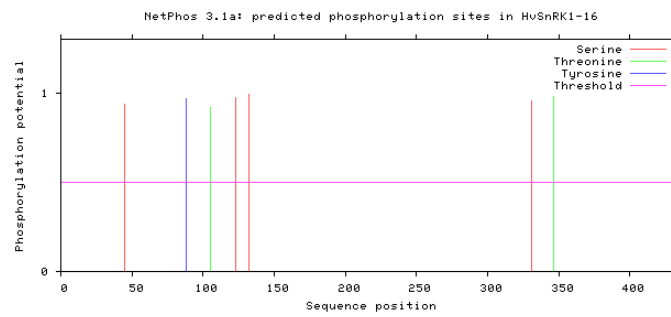
HvSnRK-14



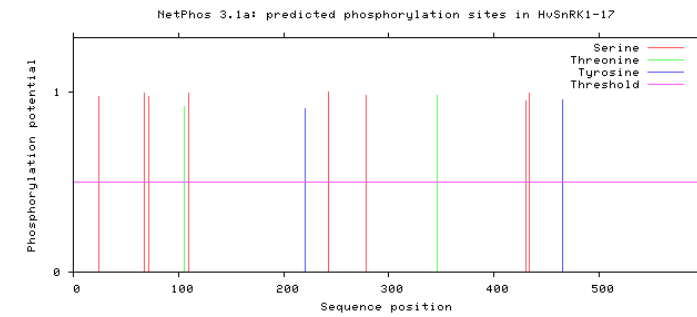
HvSnRK-15



HvSnRK-16



HvSnRK-17



HvSnRK-18

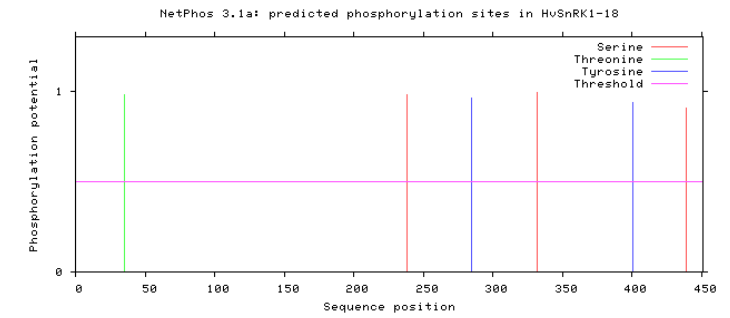
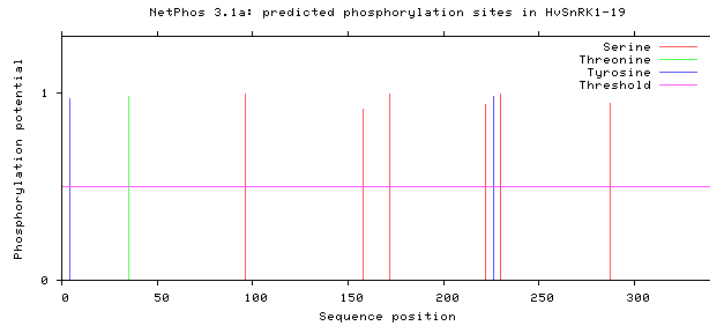
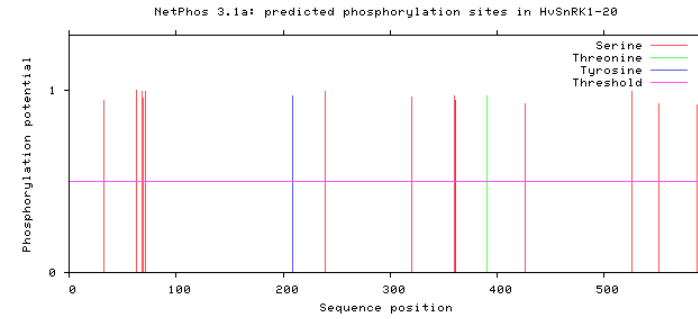


Fig. S33. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

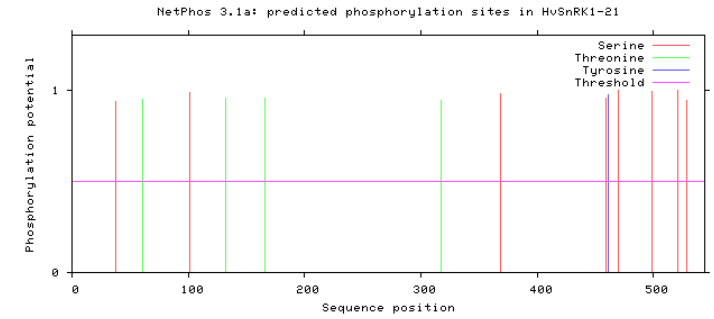
HvSnRK-19



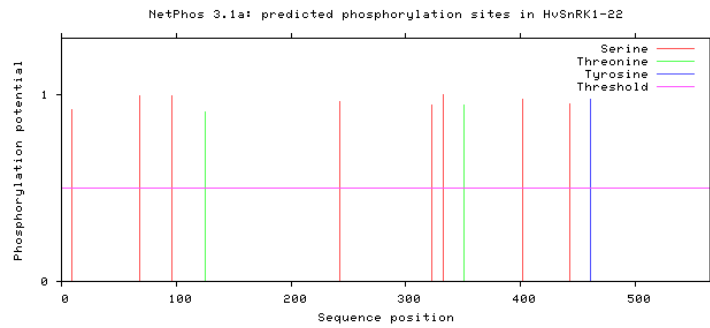
HvSnRK-20



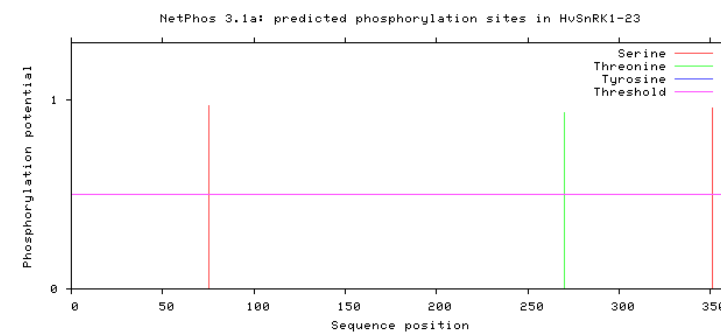
HvSnRK-21



HvSnRK-22



HvSnRK-23



HvSnRK-24

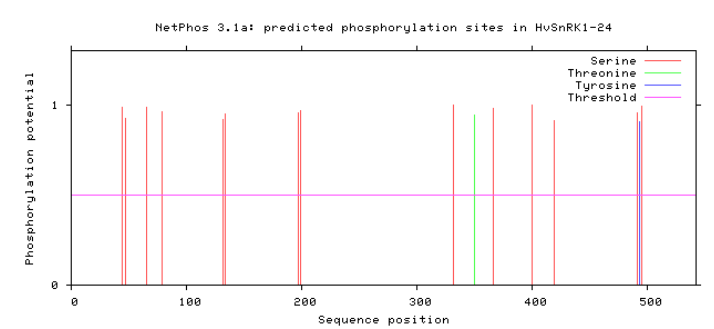


Fig. S34. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

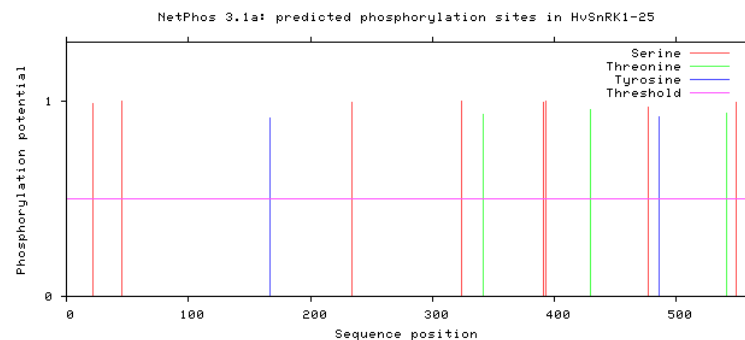
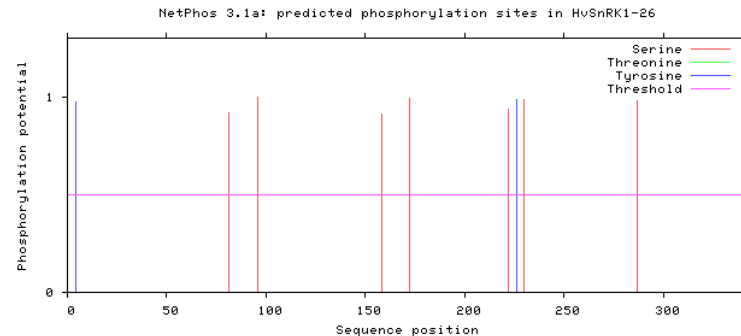
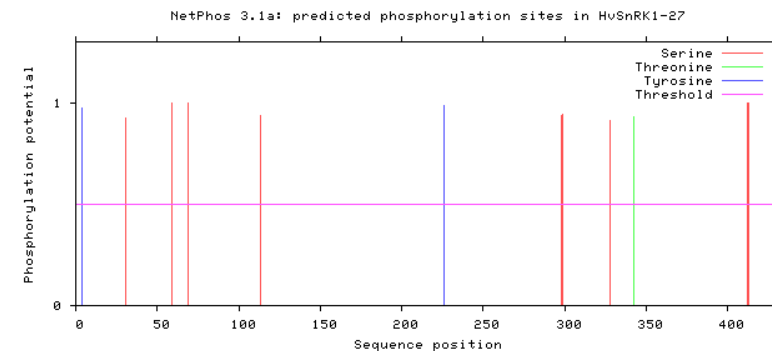
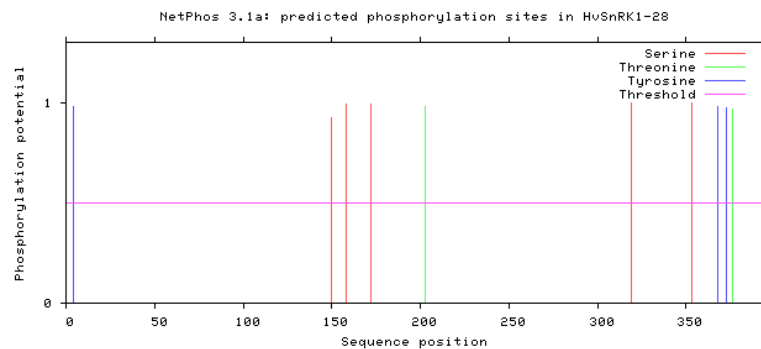
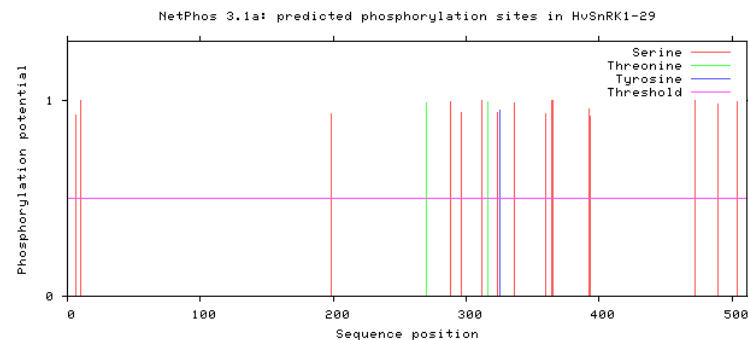
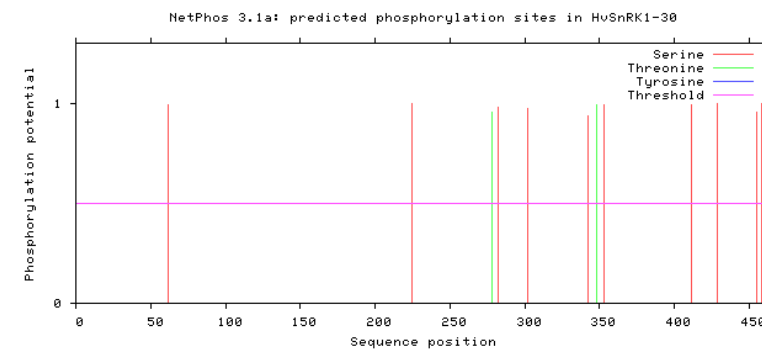
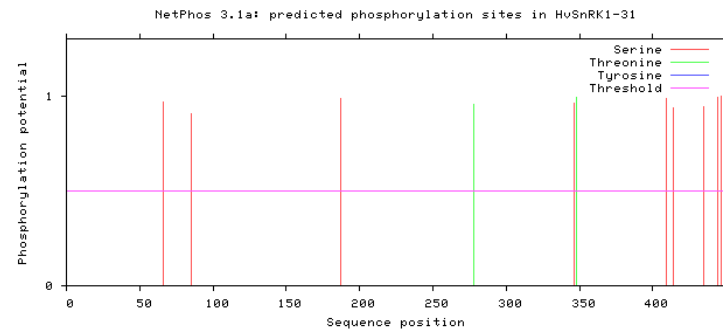
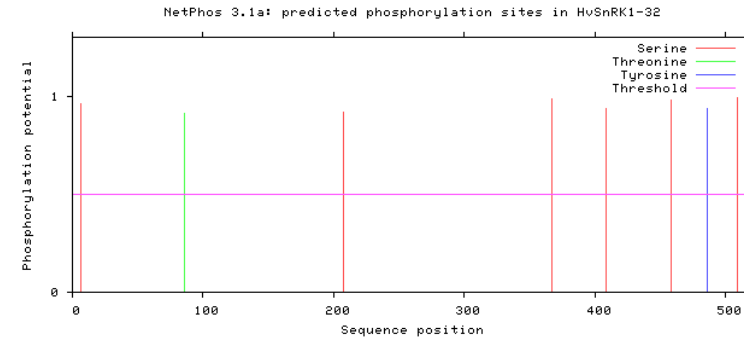
HvSnRK-25**HvSnRK-26****HvSnRK-27****HvSnRK-28****HvSnRK-29****HvSnRK-30**

Fig. S35. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

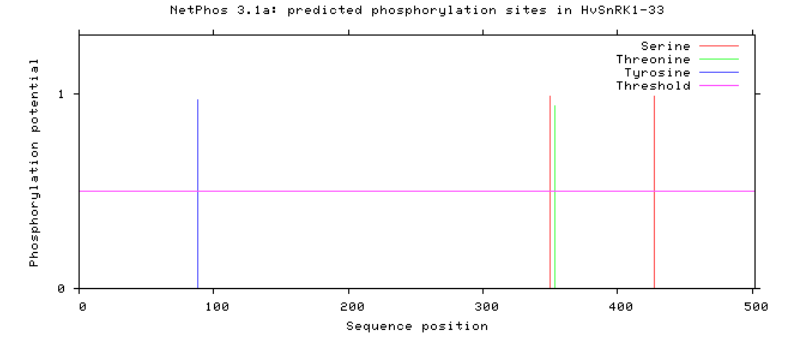
HvSnRK-31



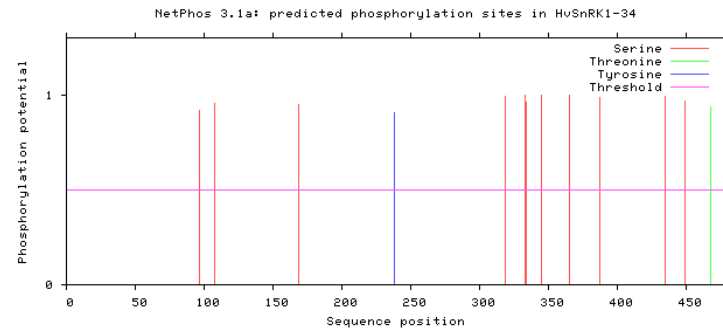
HvSnRK-32



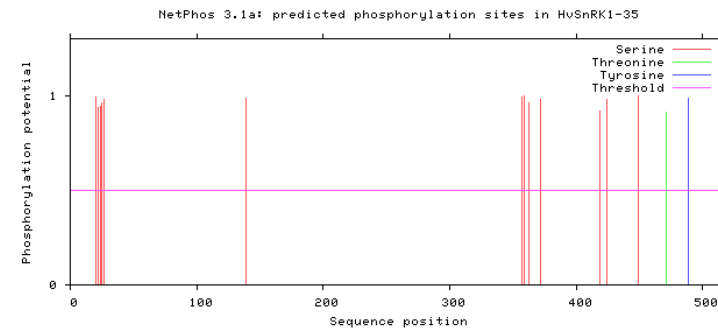
HvSnRK-33



HvSnRK-34



HvSnRK-35



HvSnRK-36

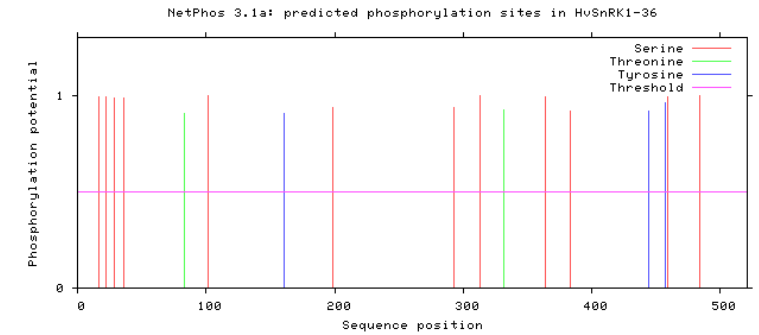
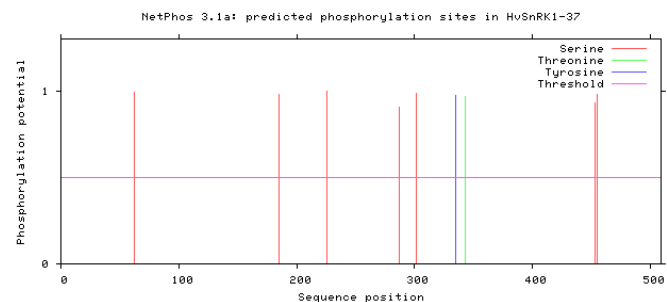
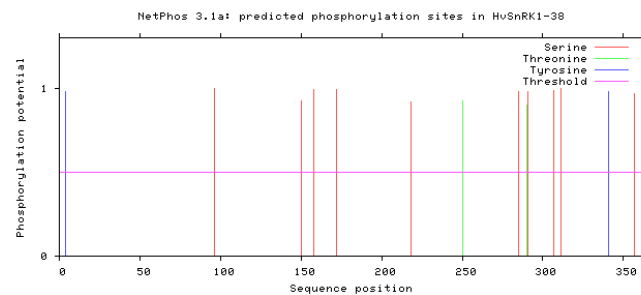


Fig. S36. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

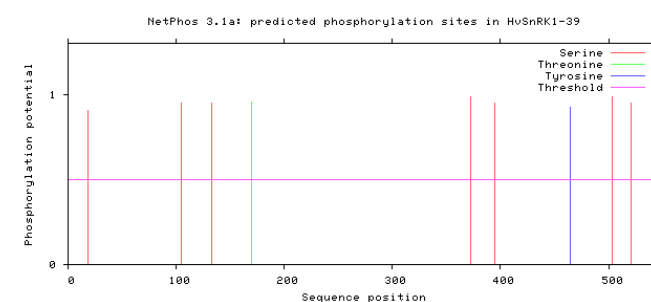
HvSnRK-37



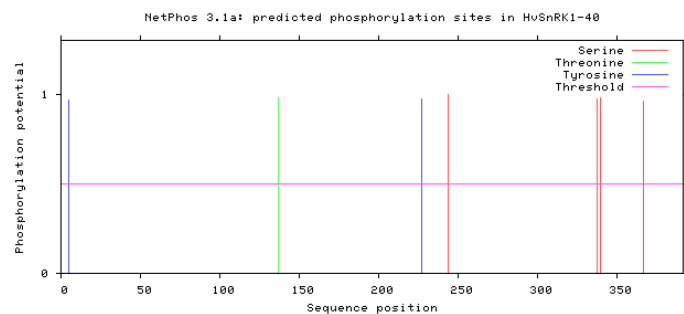
HvSnRK-38



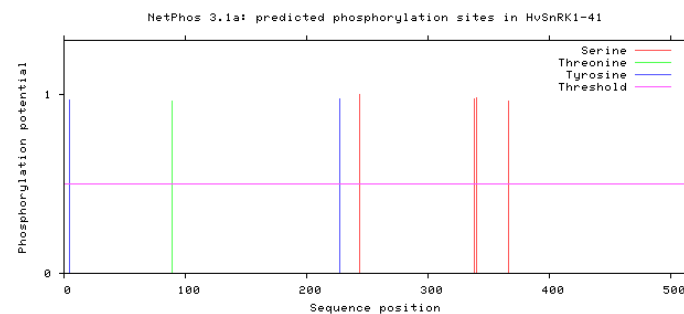
HvSnRK-39



HvSnRK-40



HvSnRK-41



HvSnRK-42

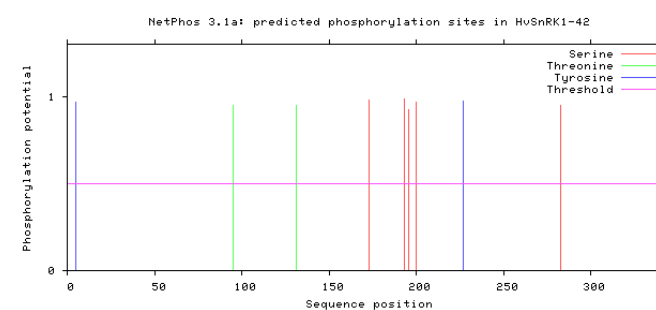


Fig. S37. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

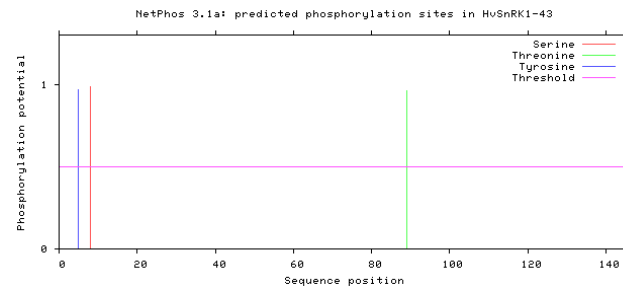
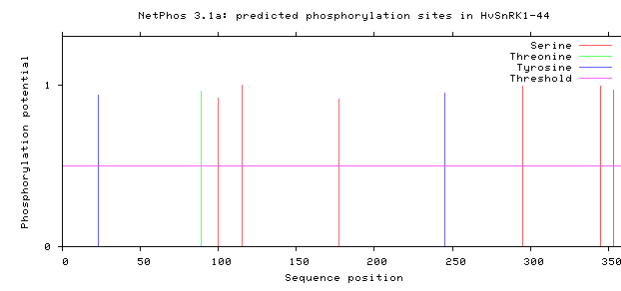
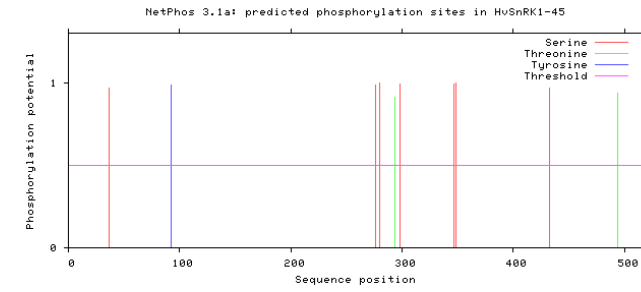
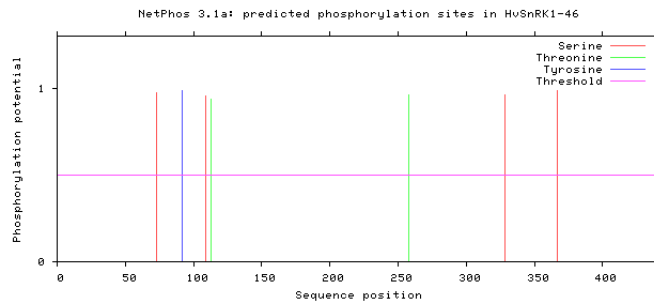
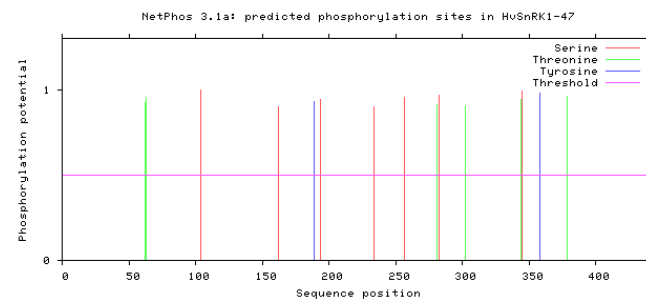
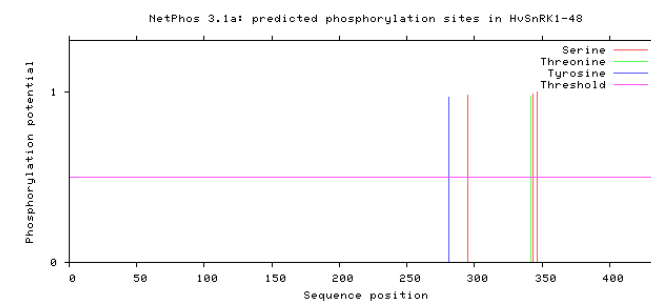
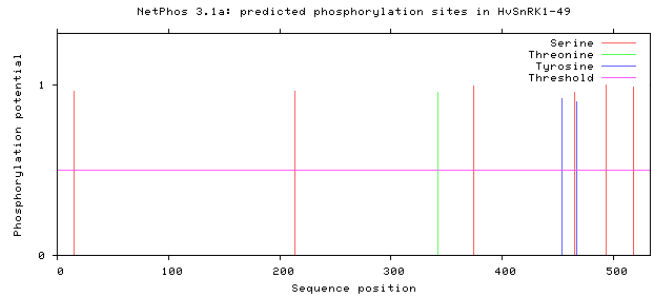
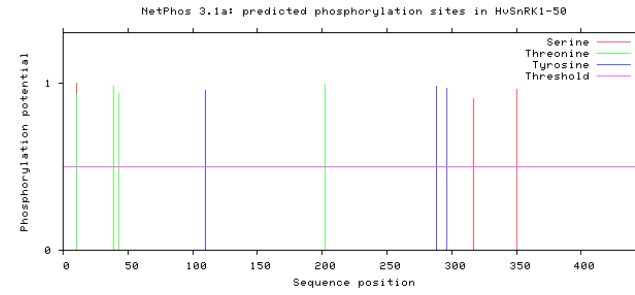
HvSnRK-43**HvSnRK-44****HvSnRK-45****HvSnRK-46****HvSnRK-47****HvSnRK-48**

Fig. S38. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

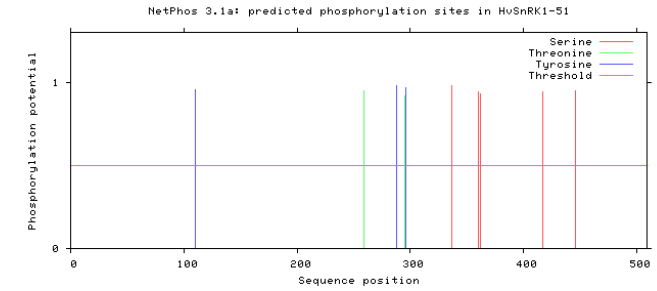
HvSnRK-49



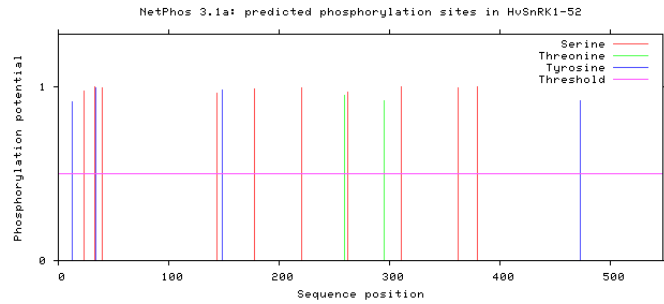
HvSnRK-50



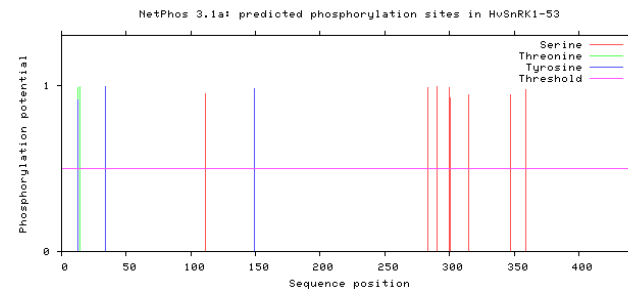
HvSnRK-51



HvSnRK-52



HvSnRK-53



HvSnRK-54

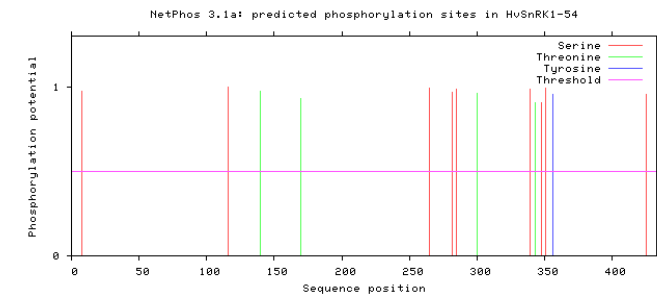


Fig. S39. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

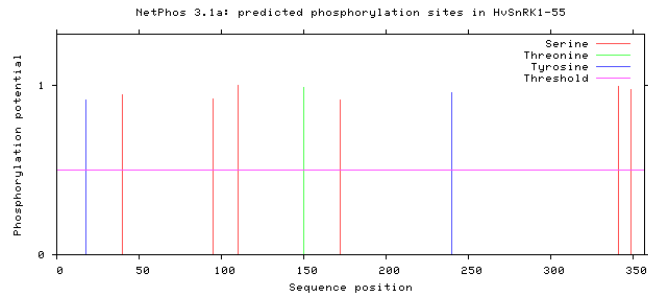
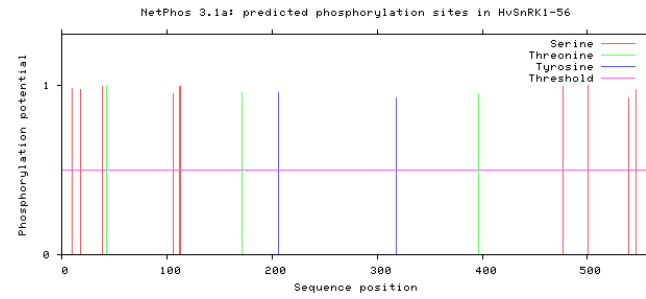
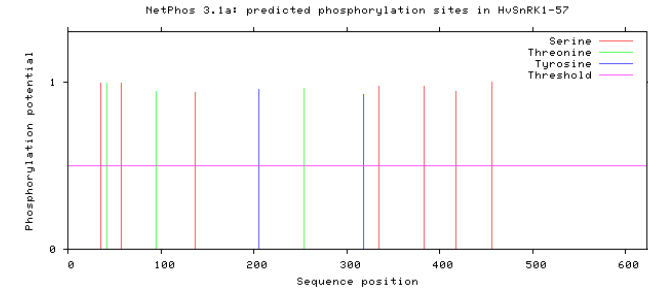
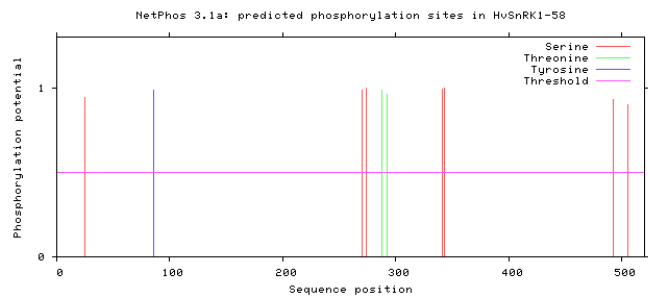
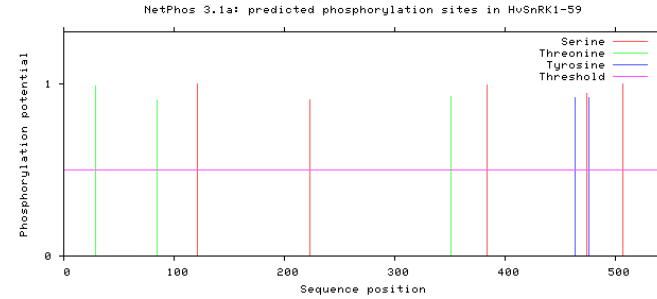
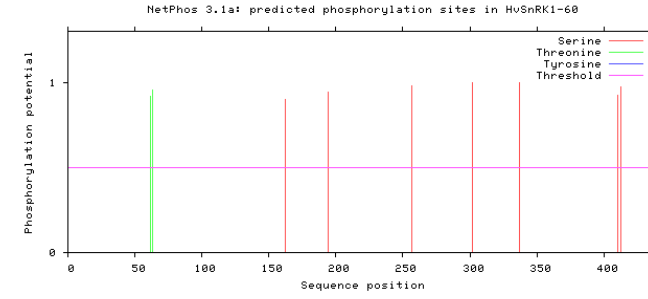
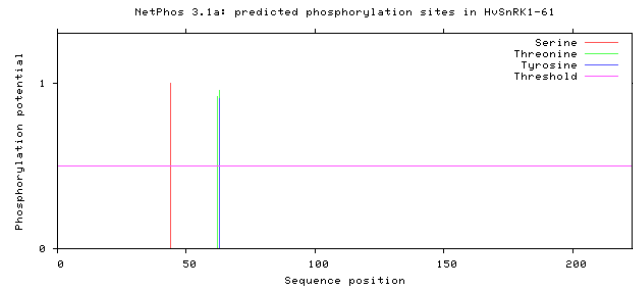
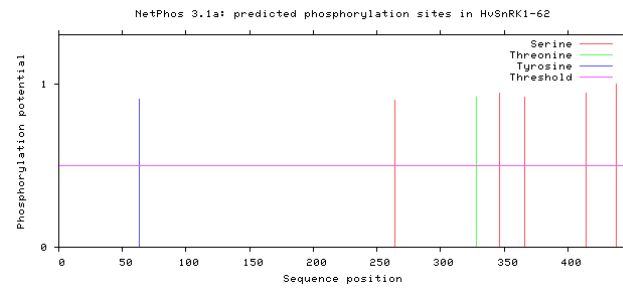
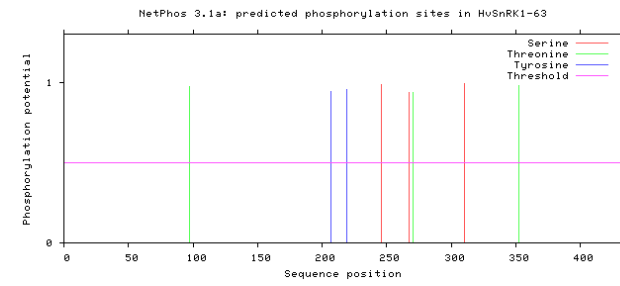
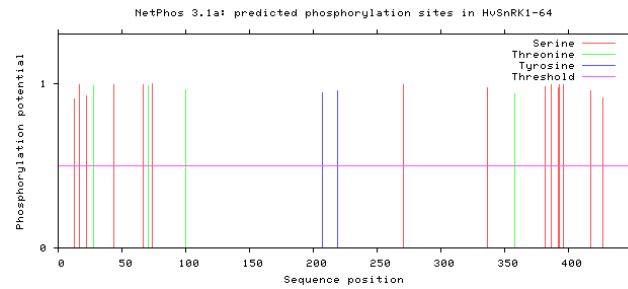
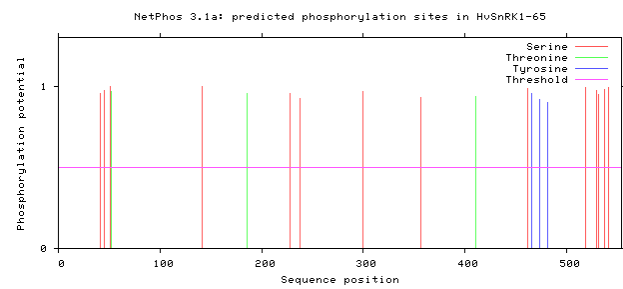
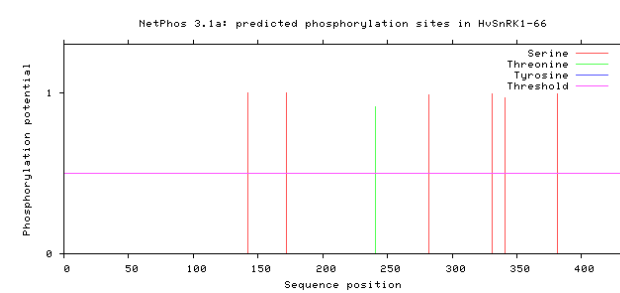
HvSnRK-55**HvSnRK-56****HvSnRK-57****HvSnRK-58****HvSnRK-59****HvSnRK-60**

Fig. S40. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

HvSnRK-61**HvSnRK-62****HvSnRK-63****HvSnRK-64****HvSnRK-65****HvSnRK-66****Fig. S41.** HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

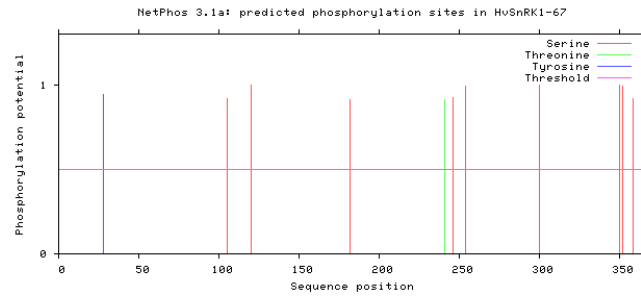
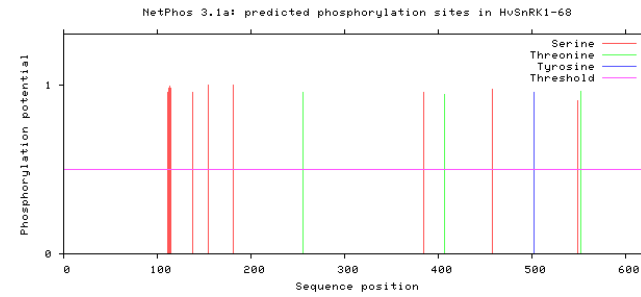
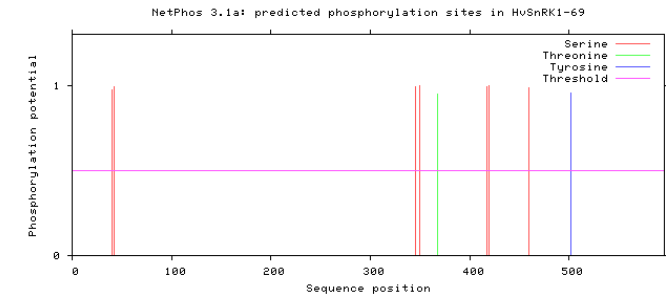
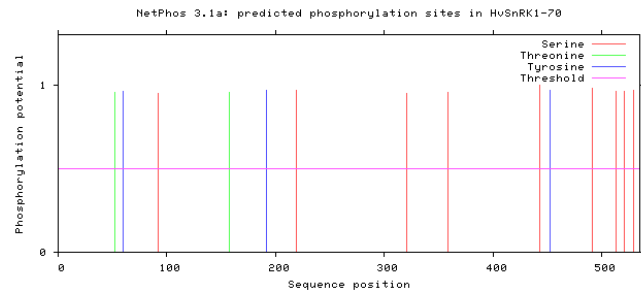
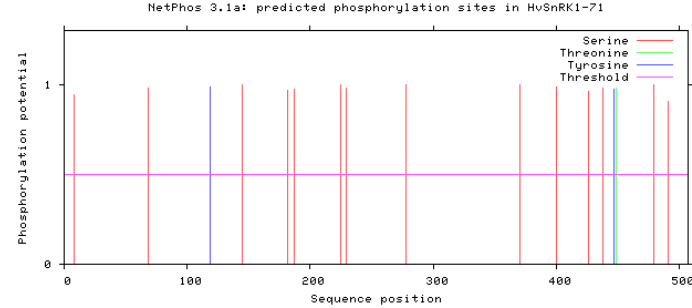
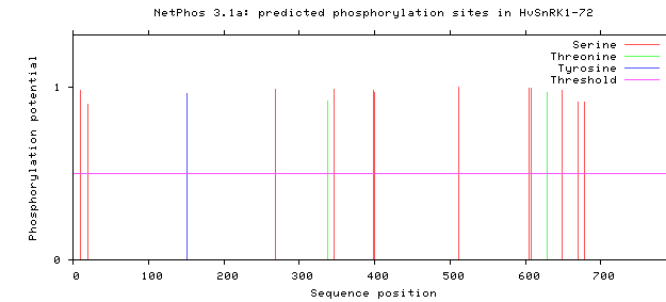
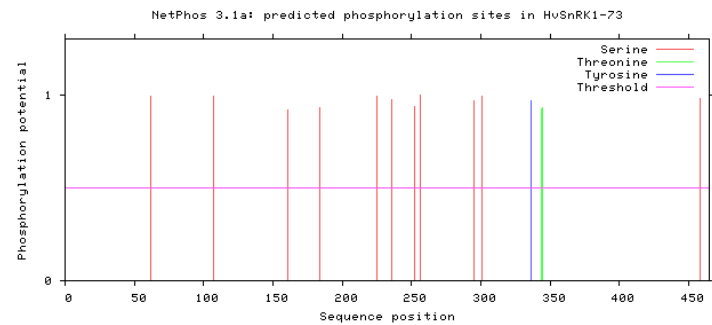
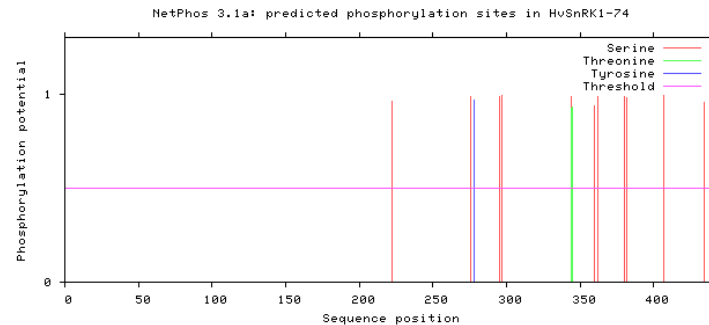
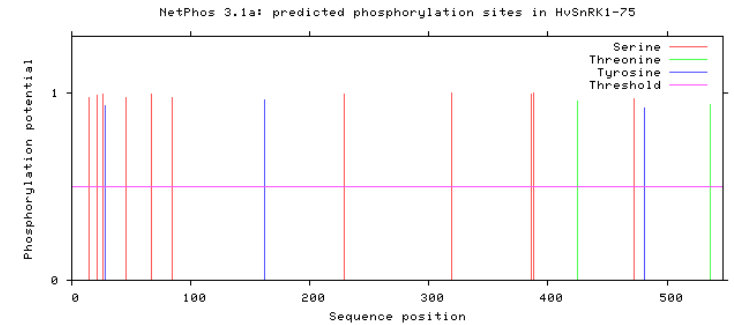
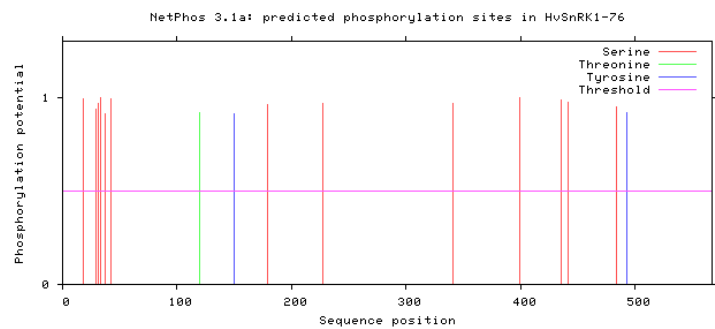
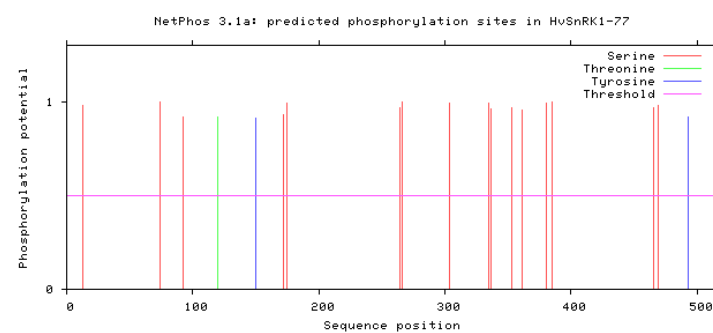
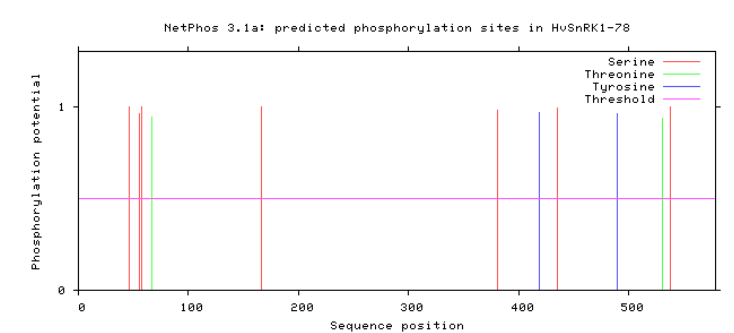
HvSnRK-67**HvSnRK-68****HvSnRK-69****HvSnRK-70****HvSnRK-71****HvSnRK-72**

Fig. S42. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

HvSnRK-73**HvSnRK-74****HvSnRK-75****HvSnRK-76****HvSnRK-77****HvSnRK-78****Fig. S43.** HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

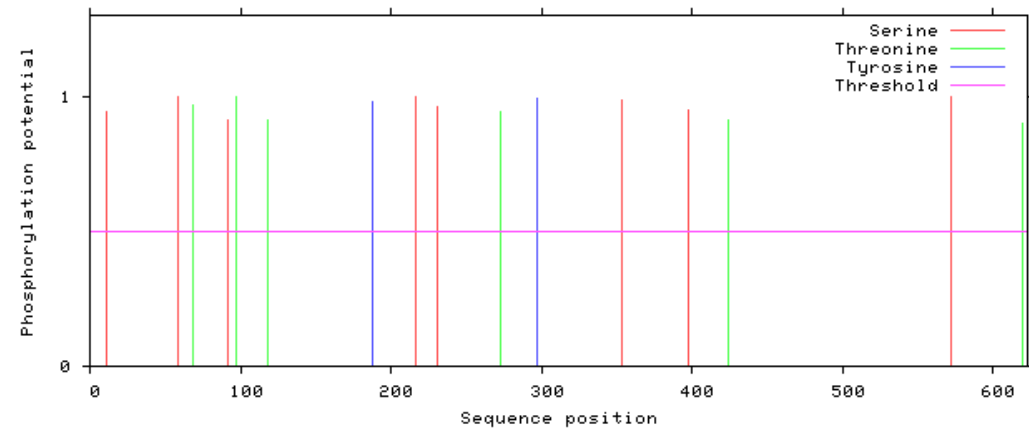
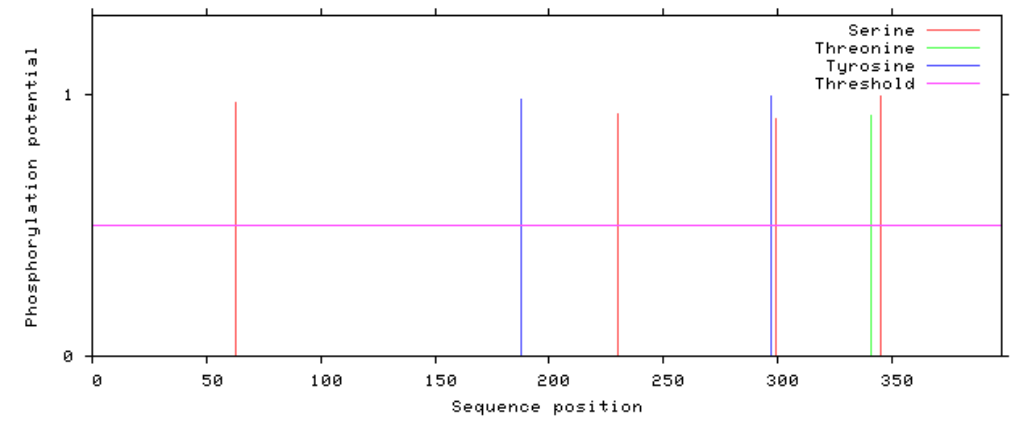
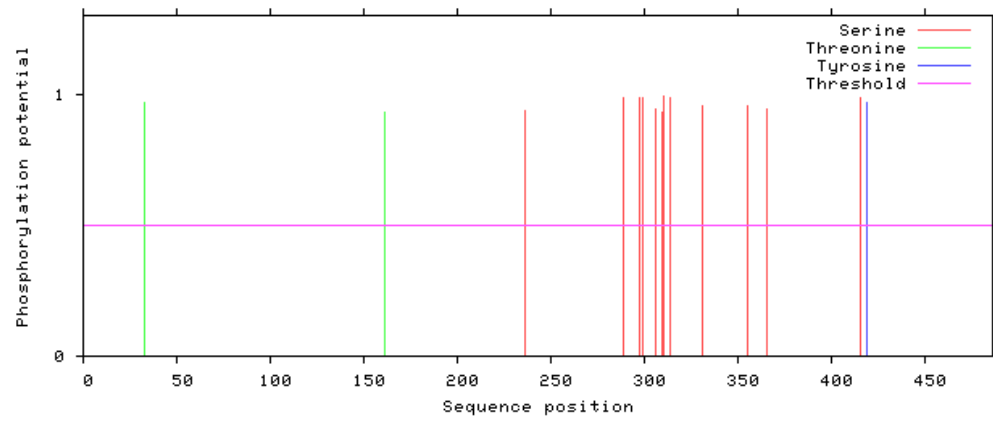
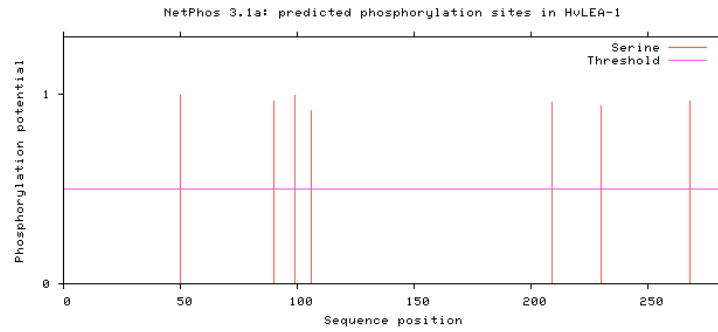
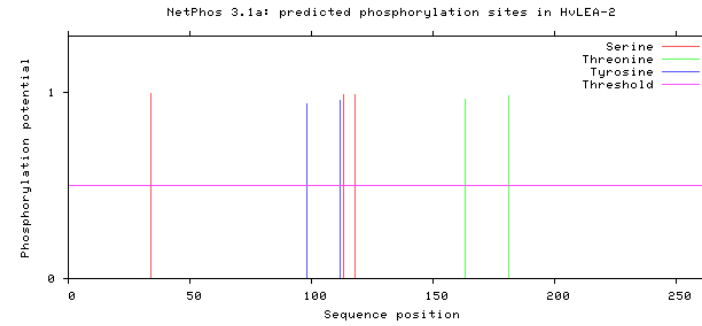


Fig. S44. HvSnRK protein putative phosphorylation with serine, threonine and tyrosine

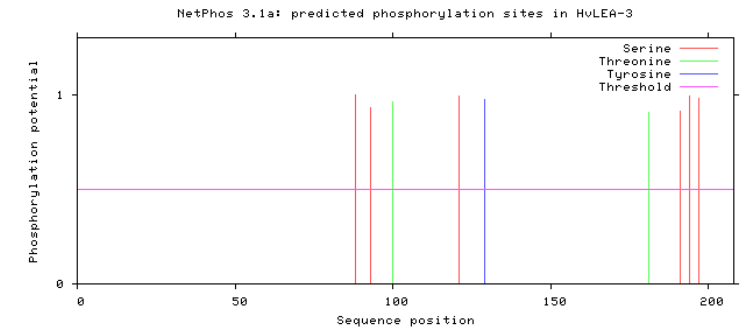
HvLEA-1



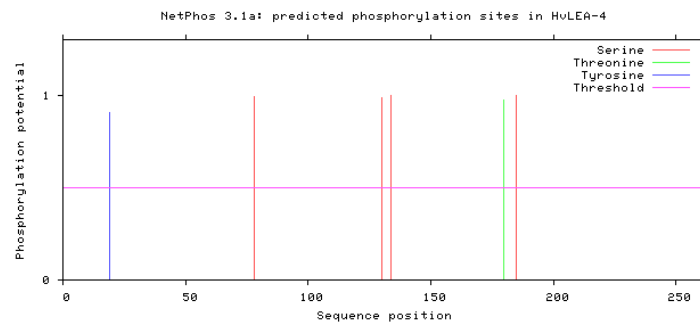
HvLEA-2



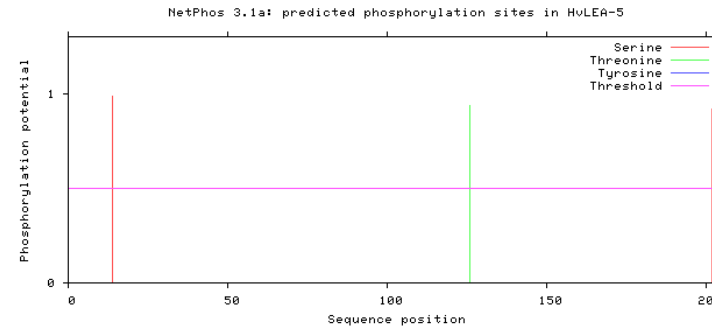
HvLEA-3



HvLEA-4



HvLEA-5



HvLEA-6

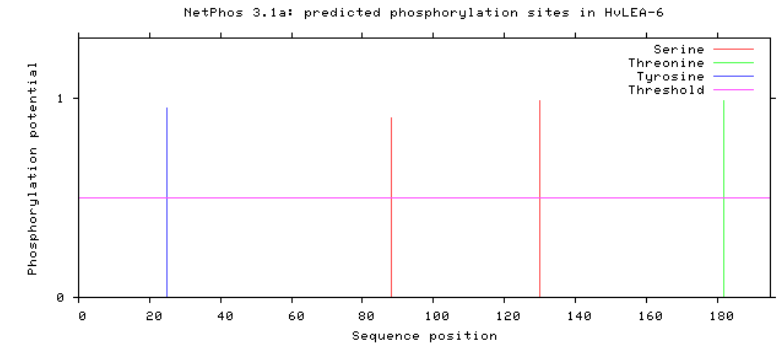
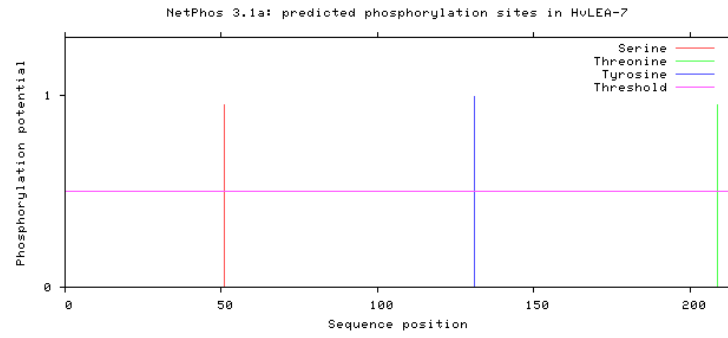
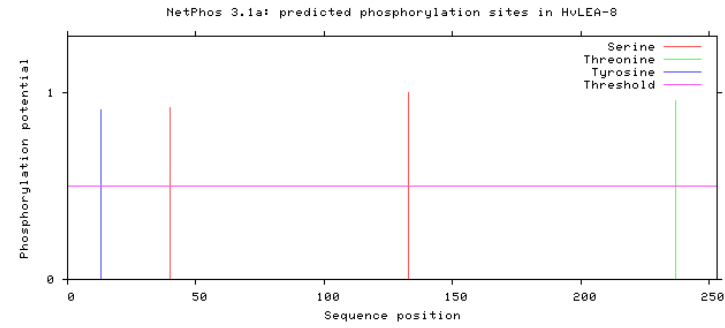


Fig. S45. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

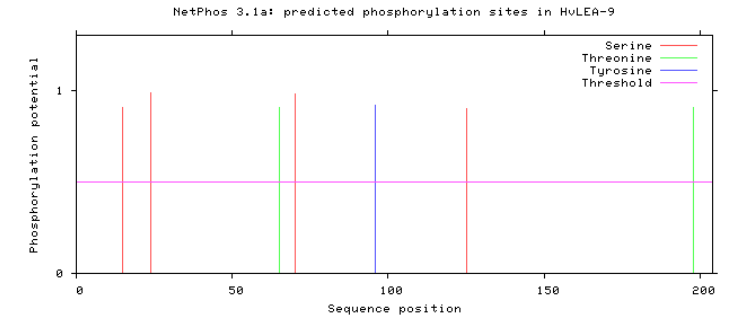
HvLEA-7



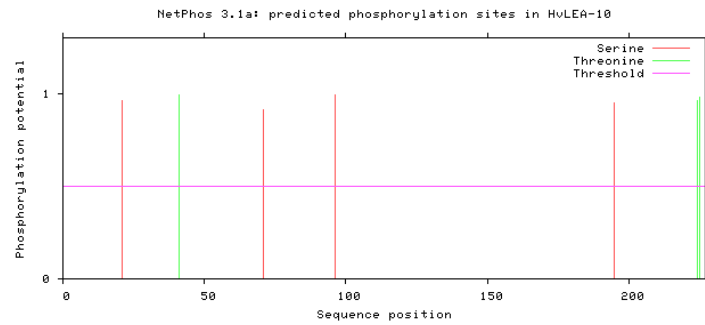
HvLEA-8



HvLEA-9



HvLEA-10



HvLEA-11

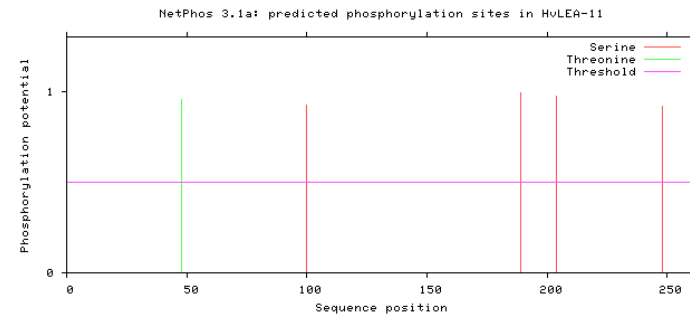
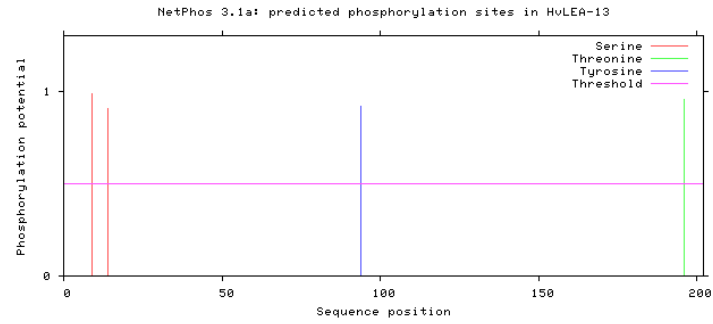
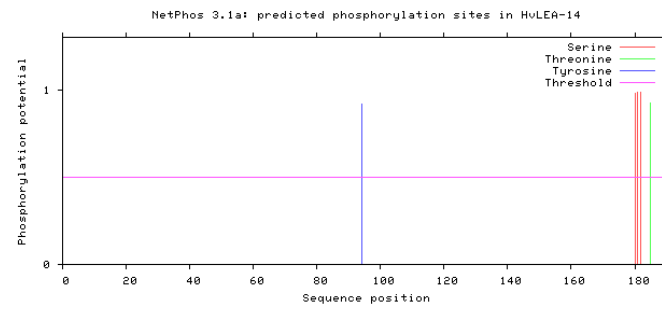


Fig. S46. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

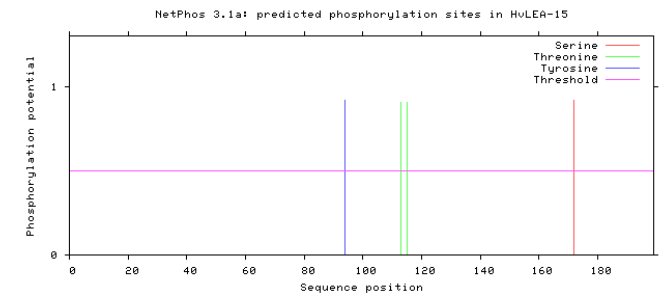
HvLEA-13



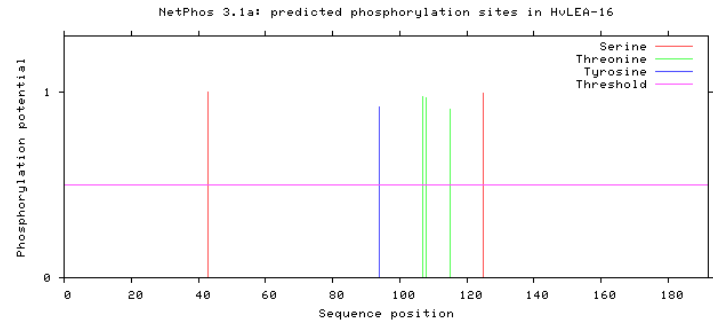
HvLEA-14



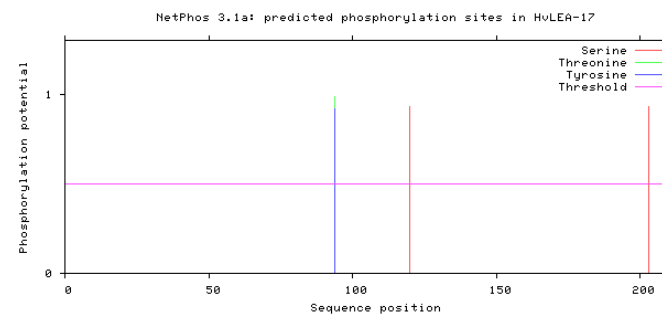
HvLEA-15



HvLEA-16



HvLEA-17



HvLEA-18

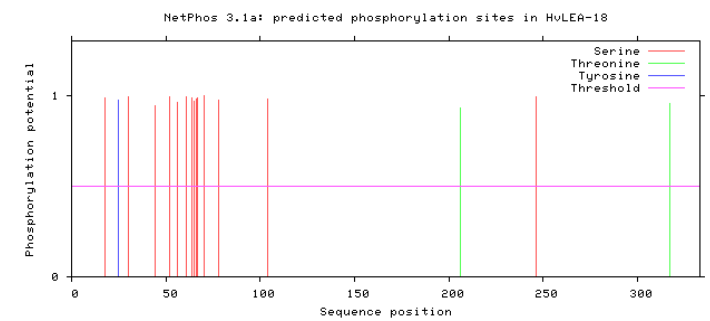
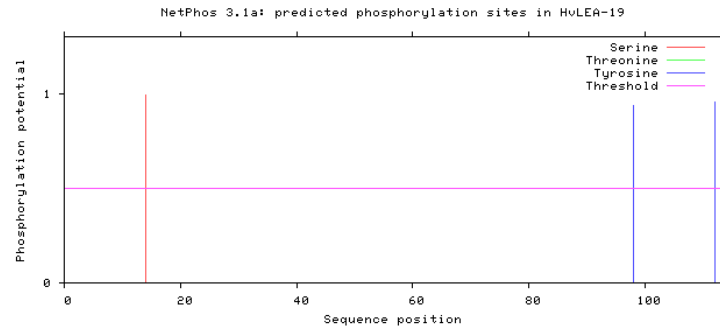
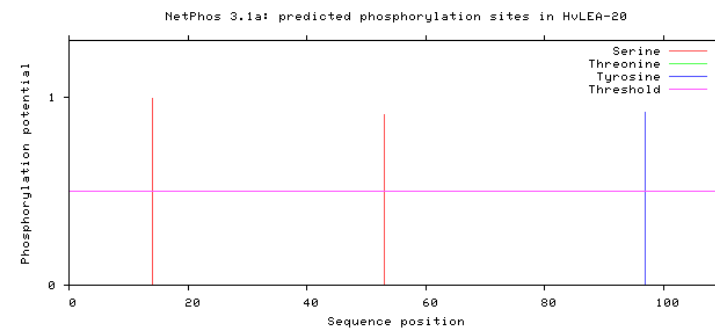


Fig. S47. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

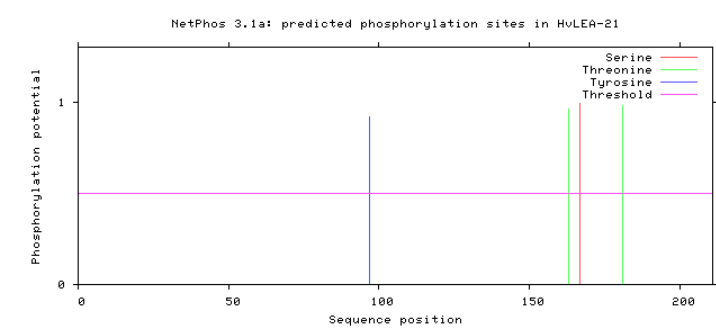
HvLEA-19



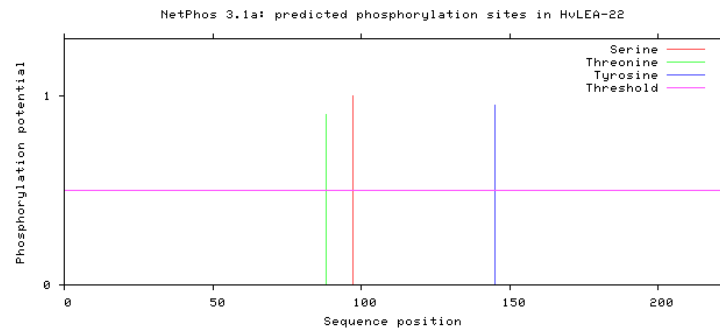
HvLEA-20



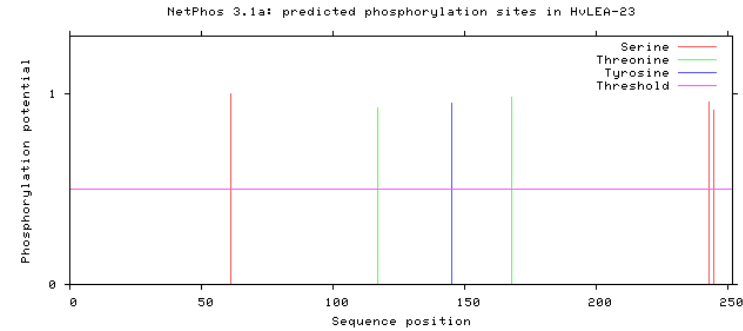
HvLEA-21



HvLEA-22



HvLEA-23



HvLEA-24

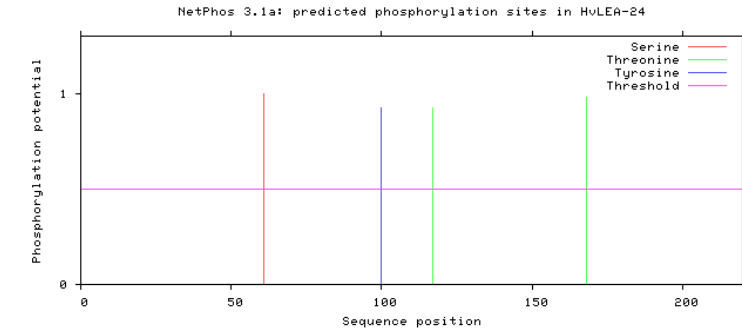
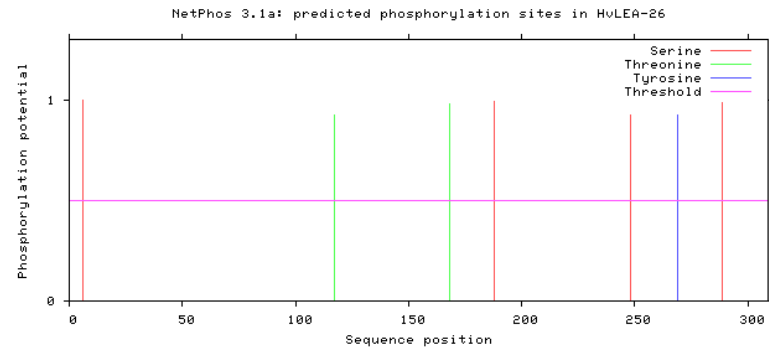
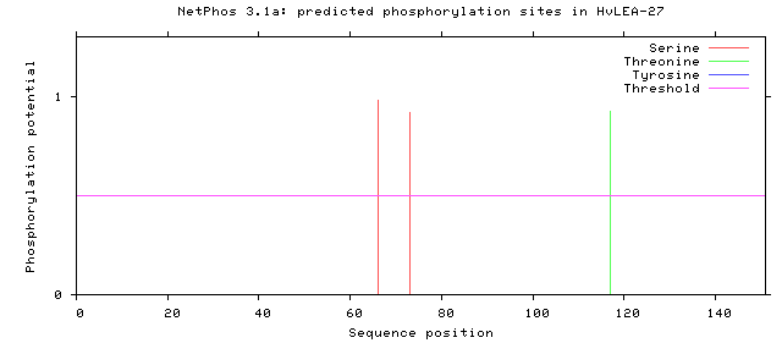


Fig. S48. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

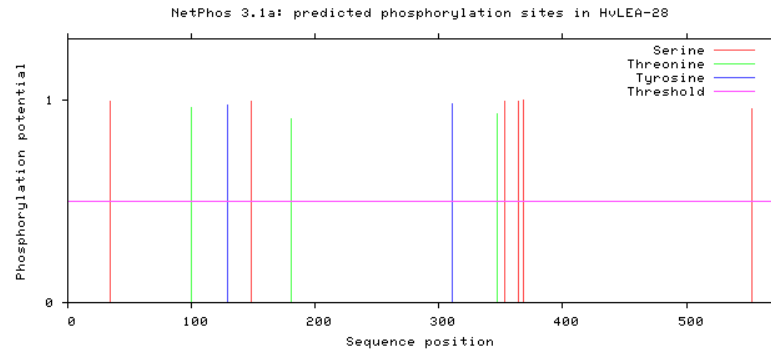
HvLEA-26



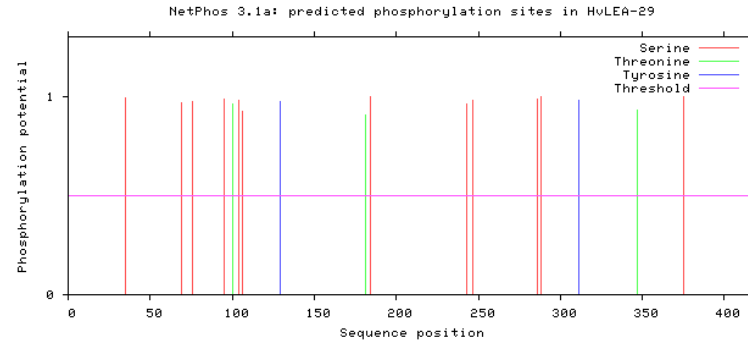
HvLEA-27



HvLEA-28



HvLEA-29



HvLEA-30

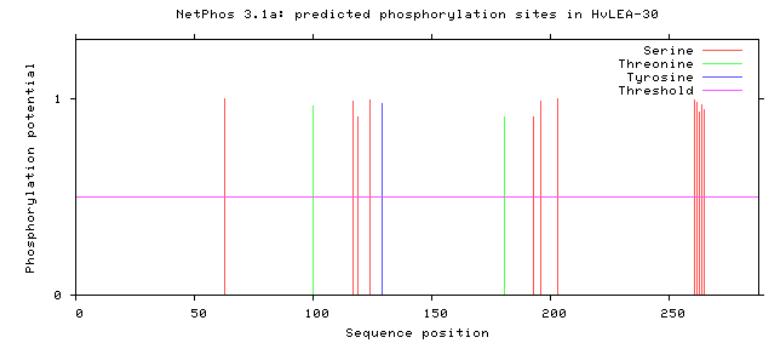
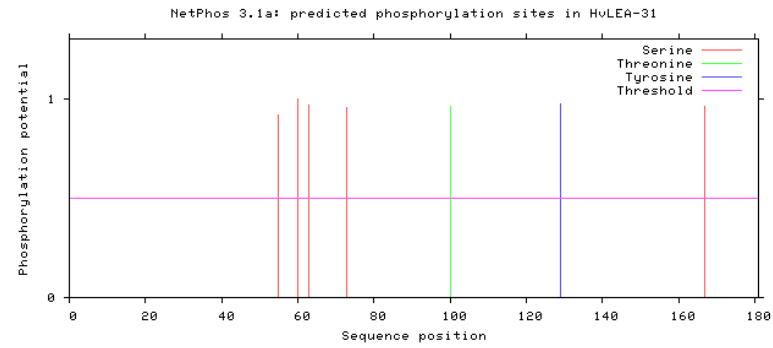
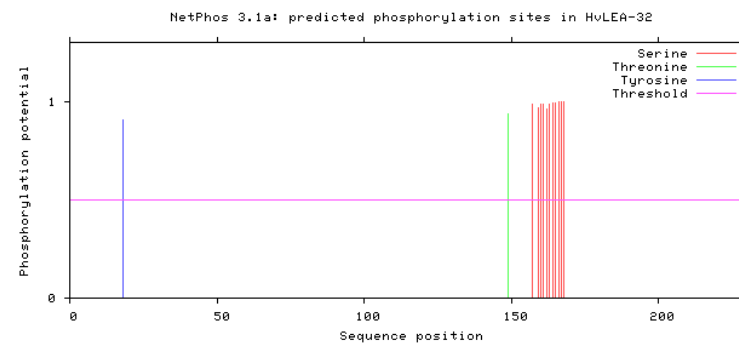


Fig. S49. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

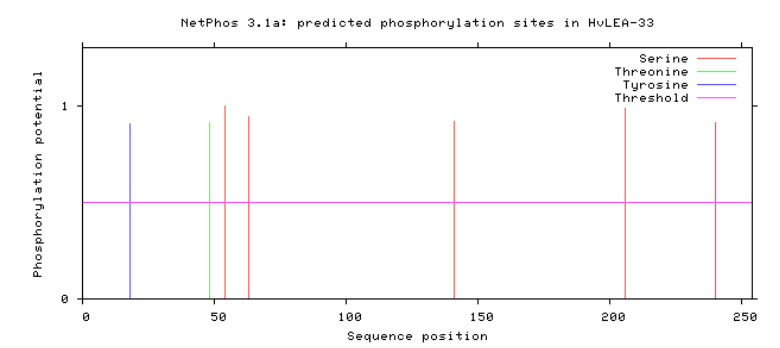
HvLEA-31



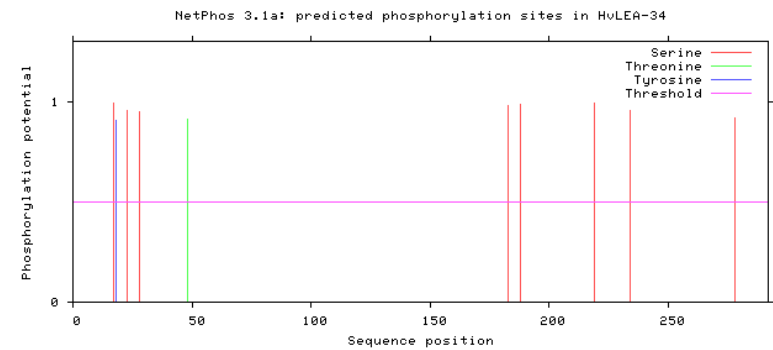
HvLEA-32



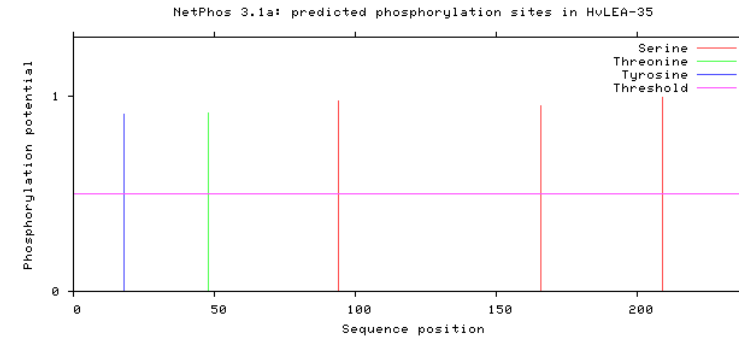
HvLEA-33



HvLEA-34



HvLEA-35



HvLEA-36

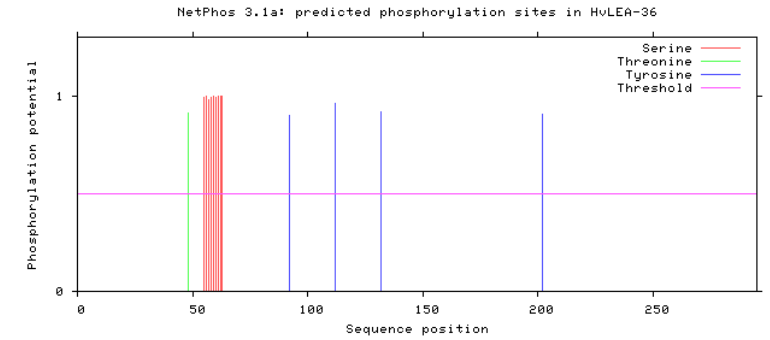
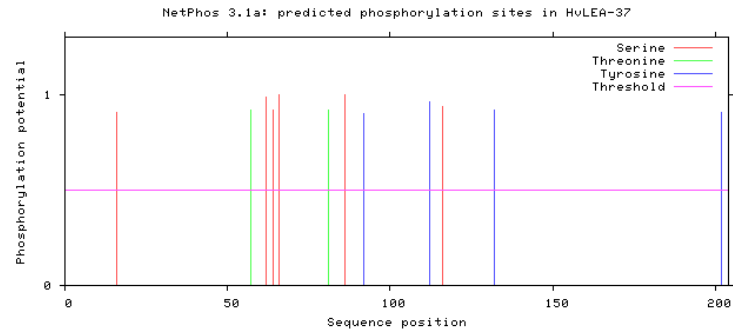
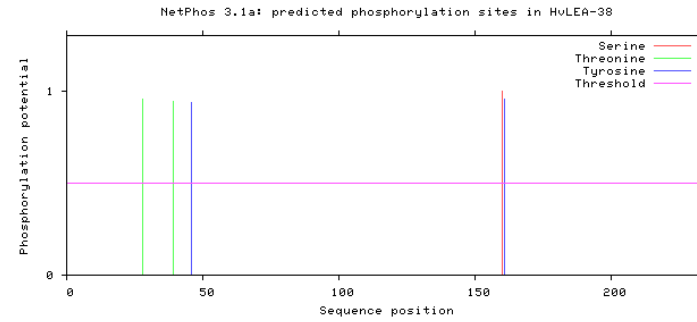


Fig. S50. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

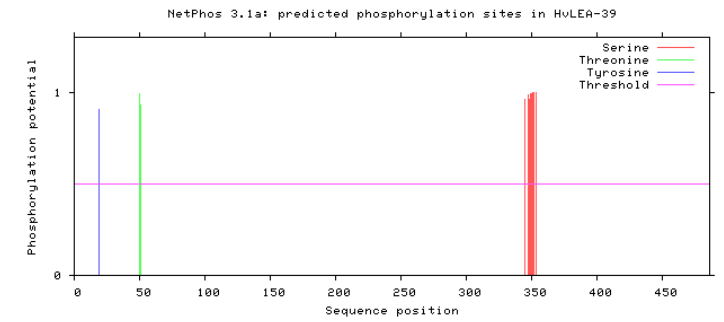
HvLEA-37



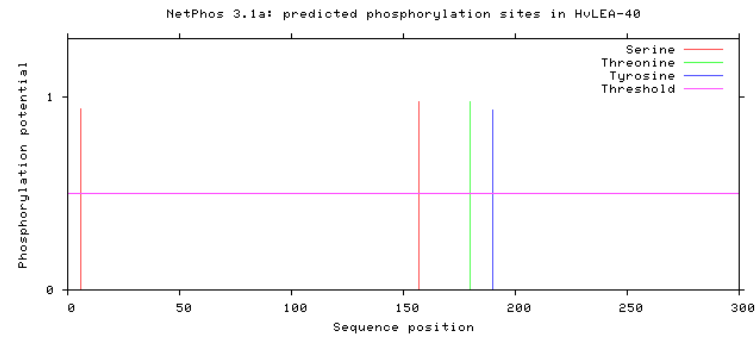
HvLEA-38



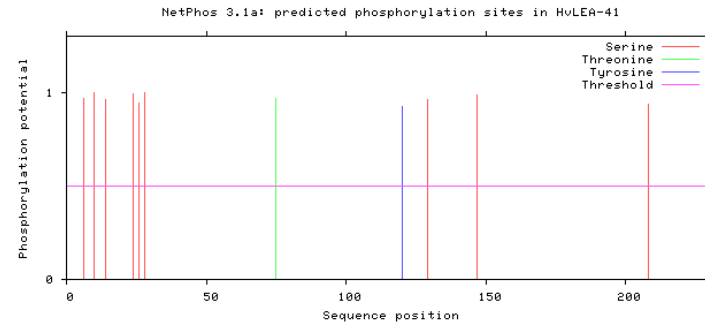
HvLEA-39



HvLEA-40



HvLEA-41



HvLEA-42

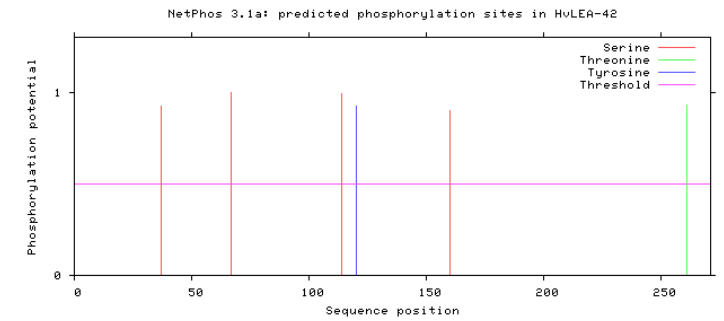


Fig. S51. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

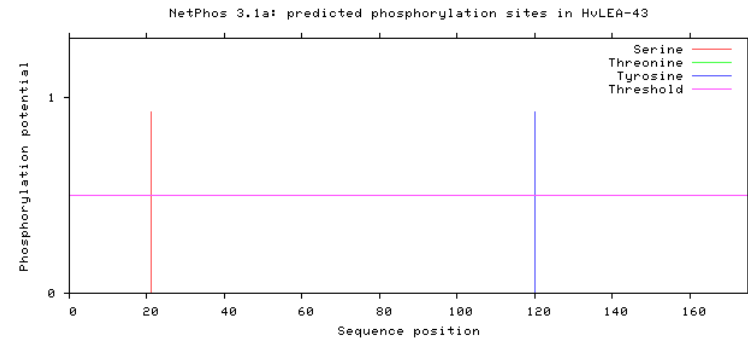
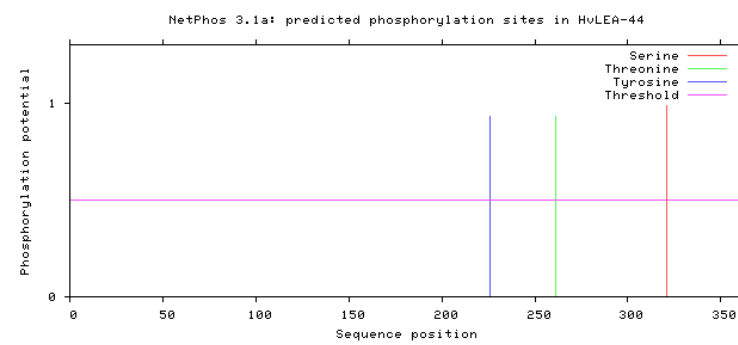
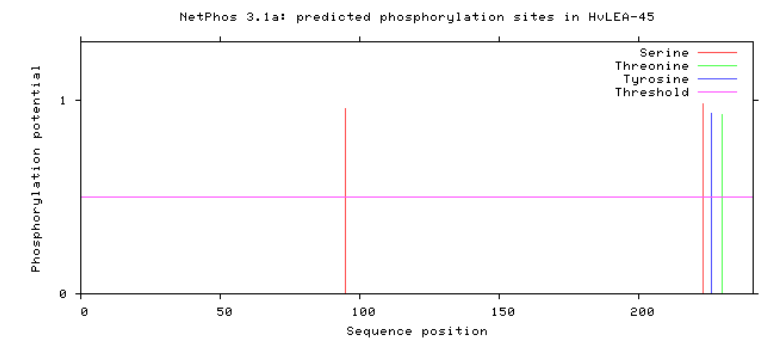
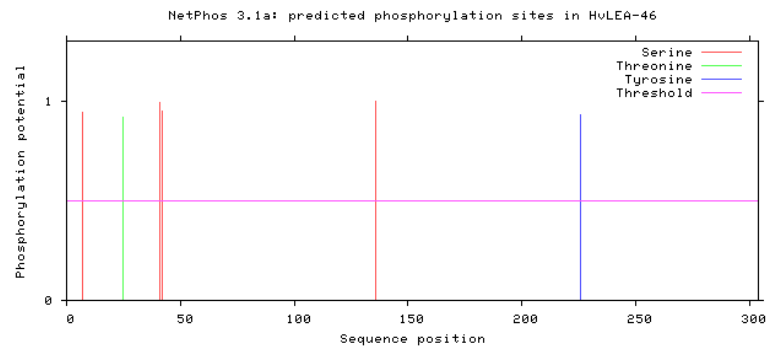
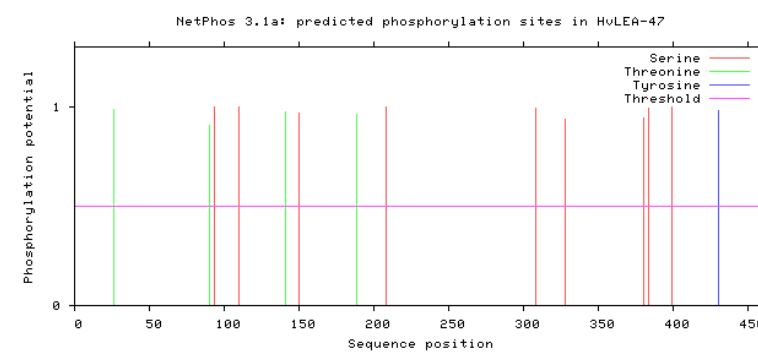
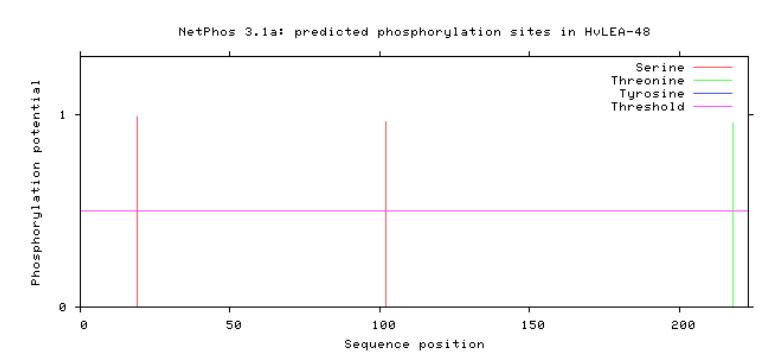
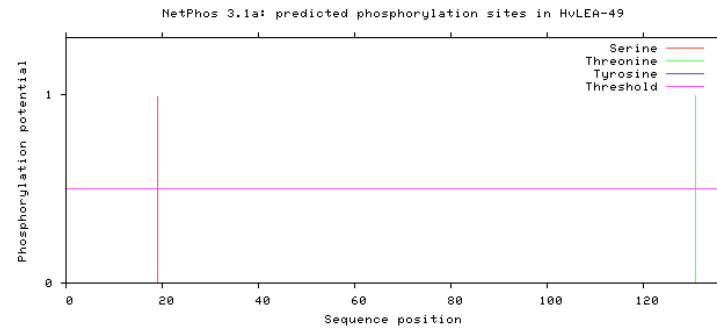
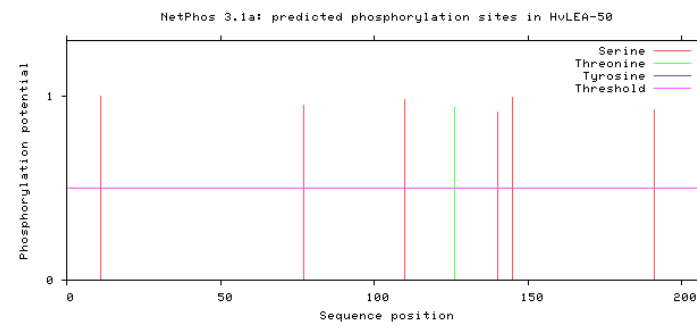
HvLEA-43**HvLEA-44****HvLEA-45****HvLEA-46****HvLEA-47****HvLEA-48**

Fig. S52. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

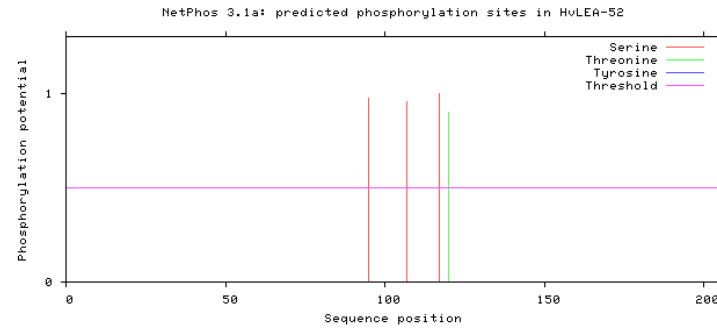
HvLEA-49



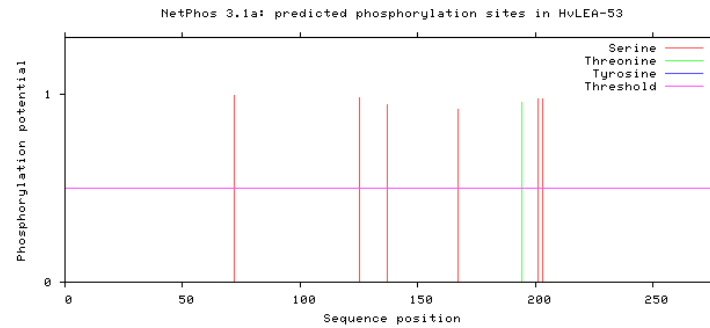
HvLEA-50



HvLEA-52



HvLEA-53



HvLEA-54

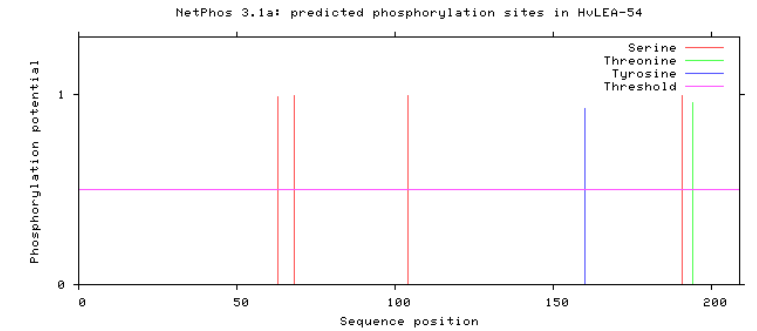
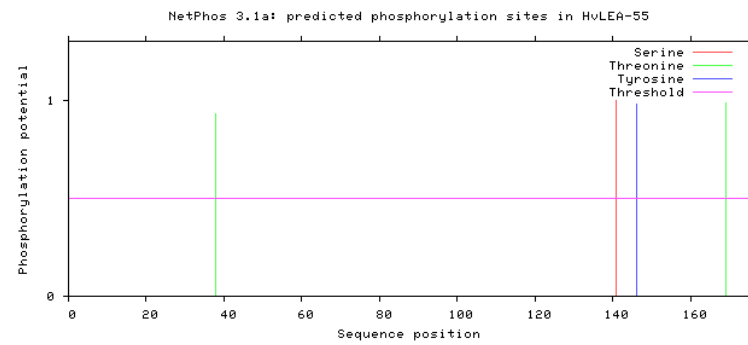
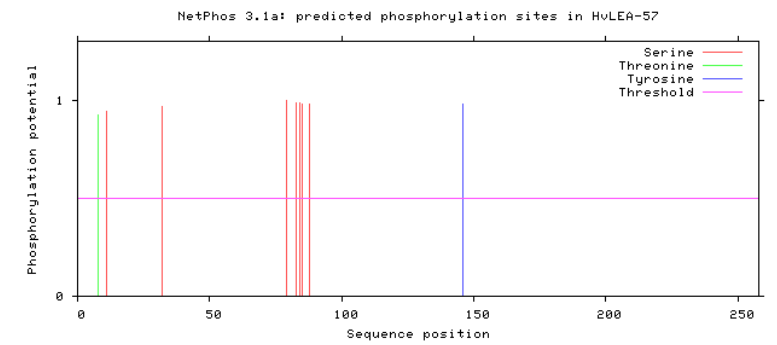


Fig. S53. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

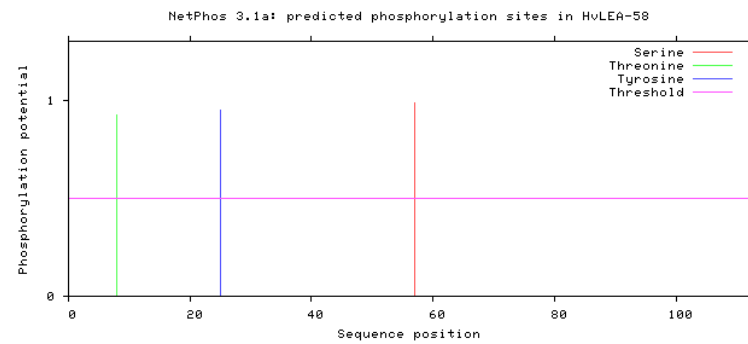
HvLEA-55



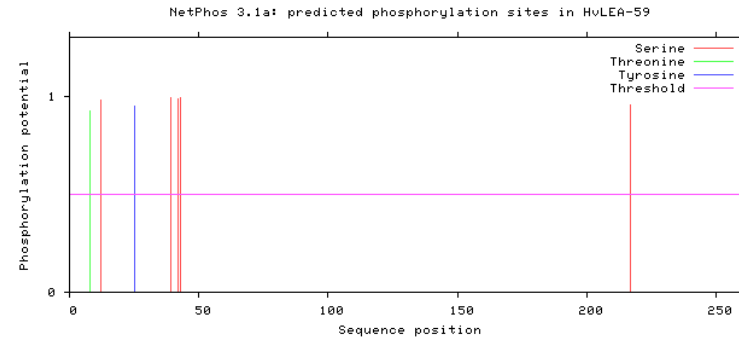
HvLEA-57



HvLEA-58



HvLEA-59



HvLEA-60

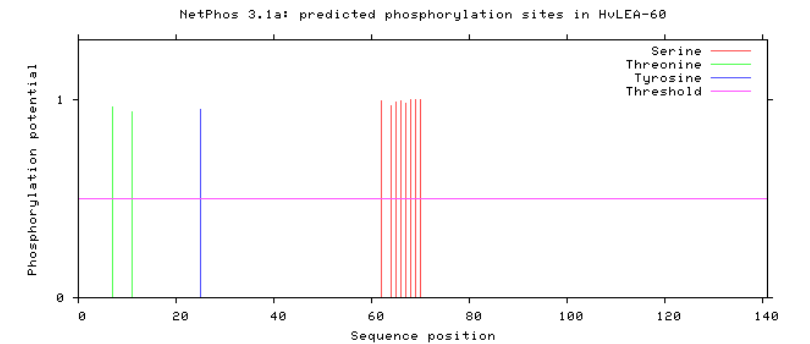
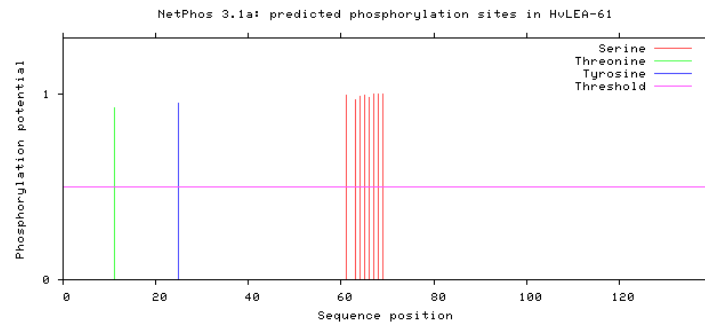
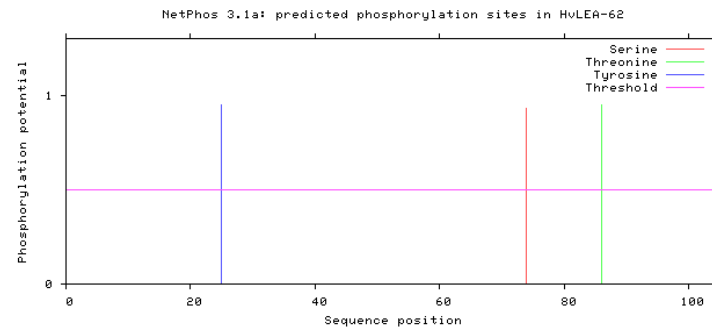


Fig. S54. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

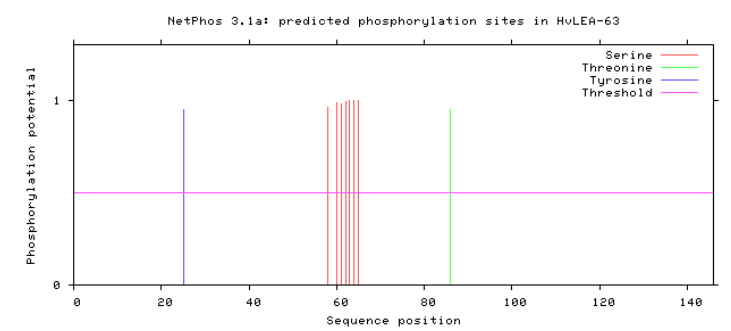
HvLEA-61



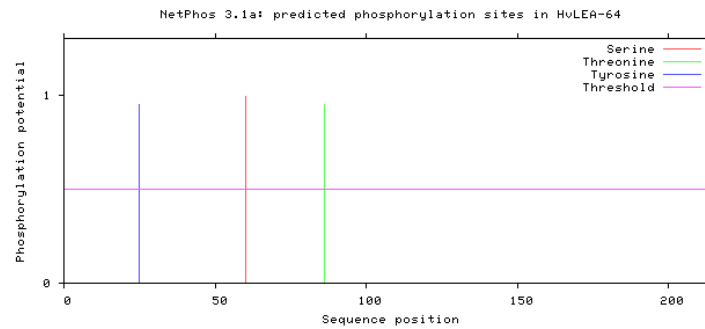
HvLEA-62



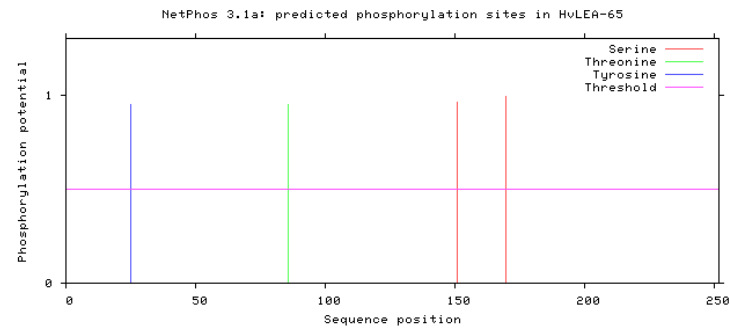
HvLEA-63



HvLEA-64



HvLEA-65



HvLEA-66

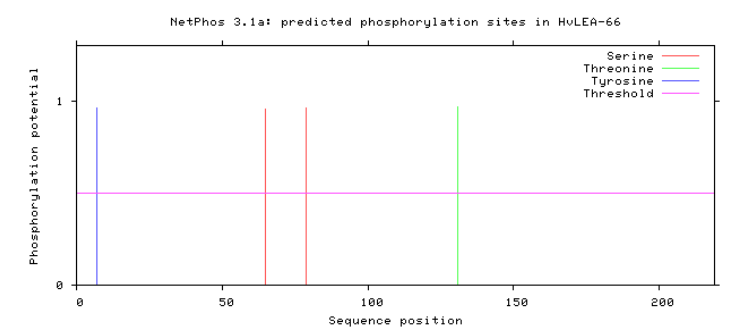
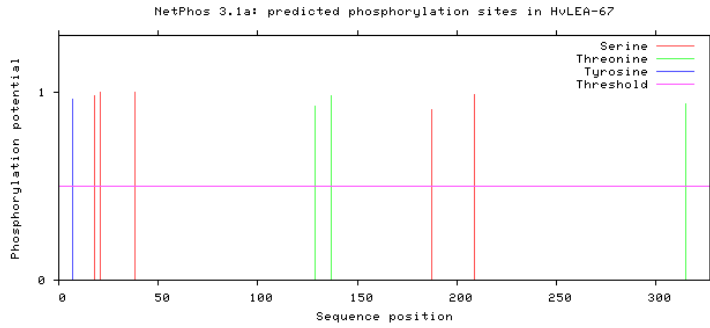
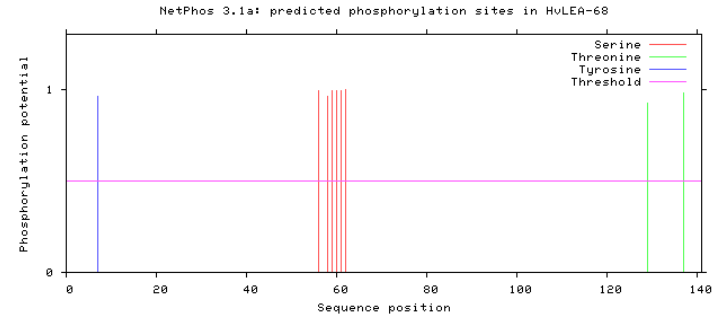


Fig. S55. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

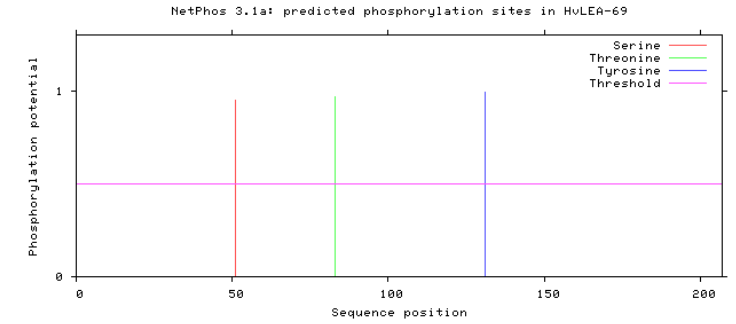
HvLEA-67



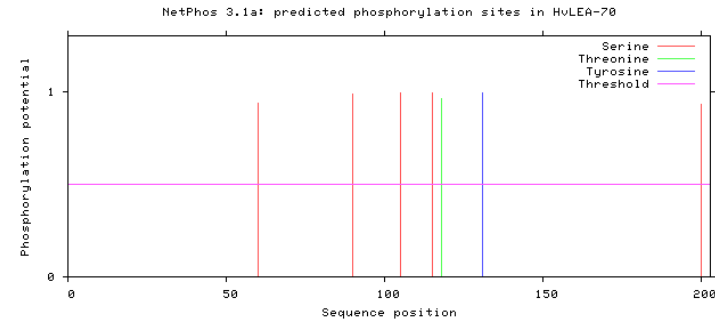
HvLEA-68



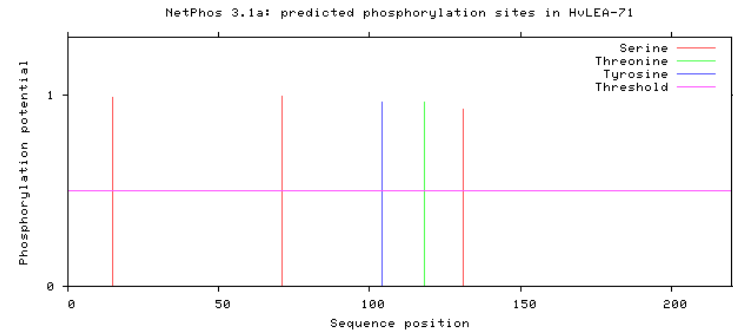
HvLEA-79



HvLEA-70



HvLEA-71



HvLEA-72

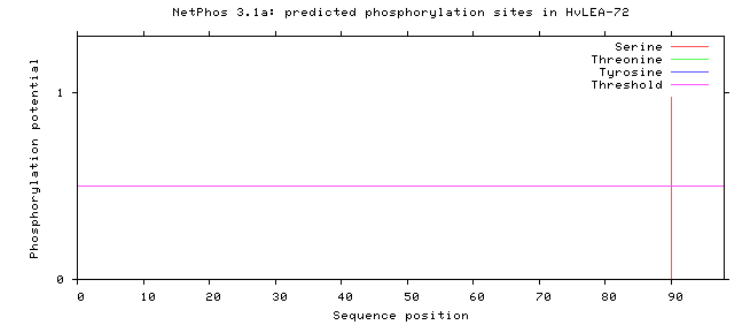
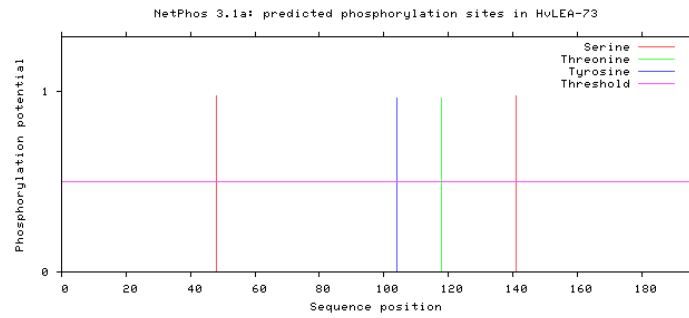
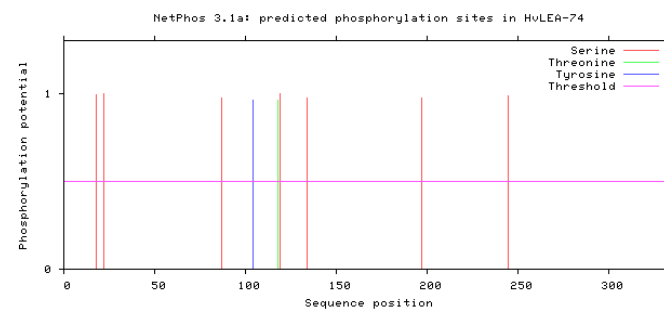
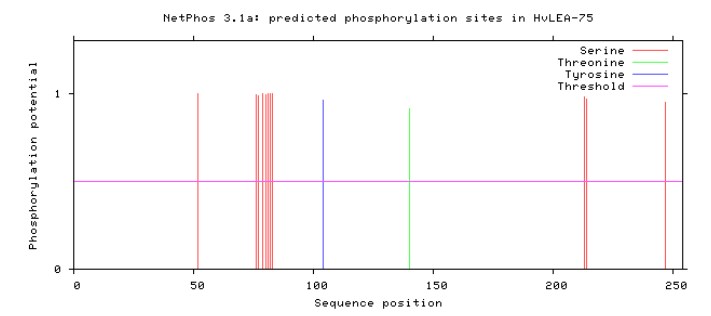
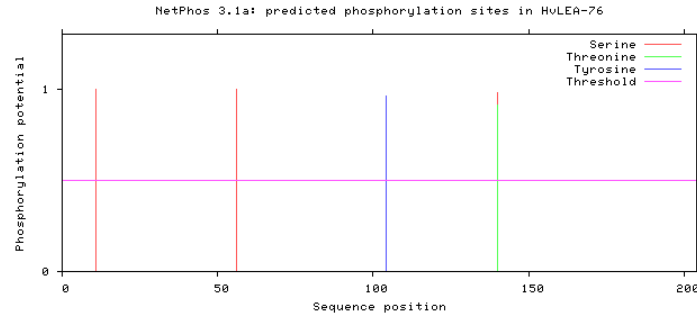
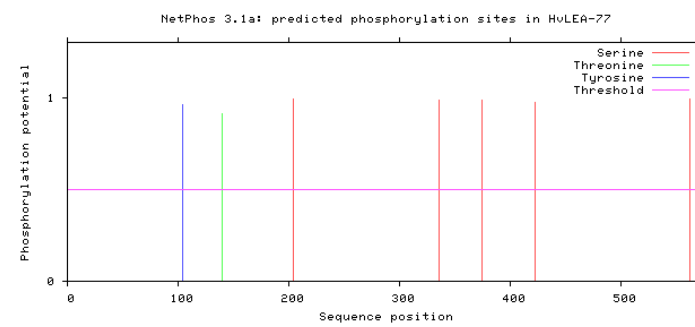
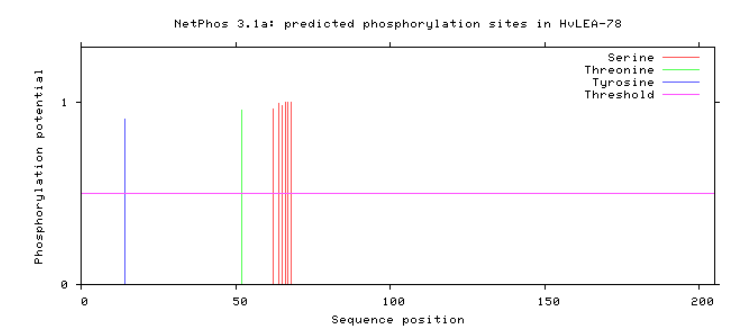
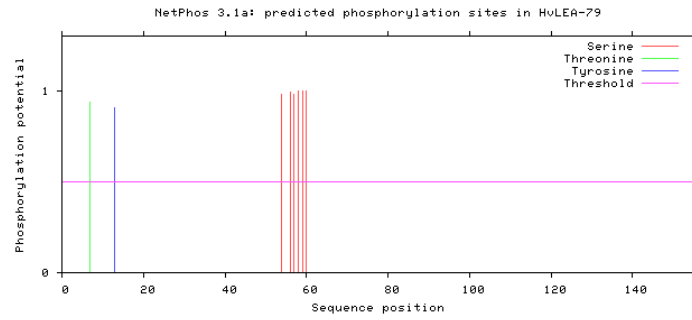


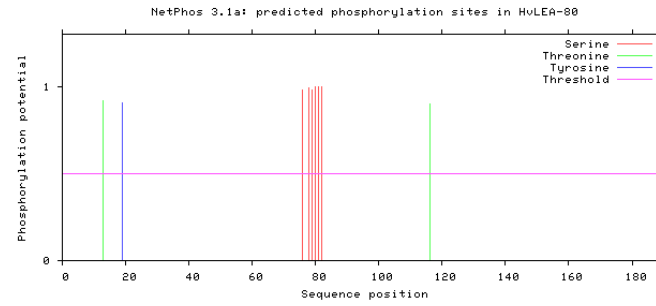
Fig. S56. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

HvLEA-73**HvLEA-74****HvLEA-75****HvLEA-76****HvLEA-77****HvLEA-78****Fig. S57.** HvLEA protein putative phosphorylation with serine, threonine and tyrosine

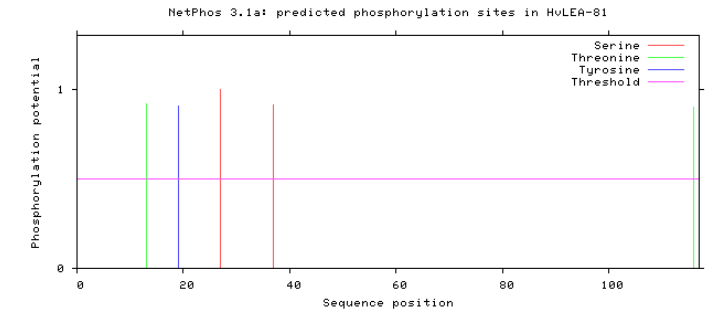
HvLEA-79



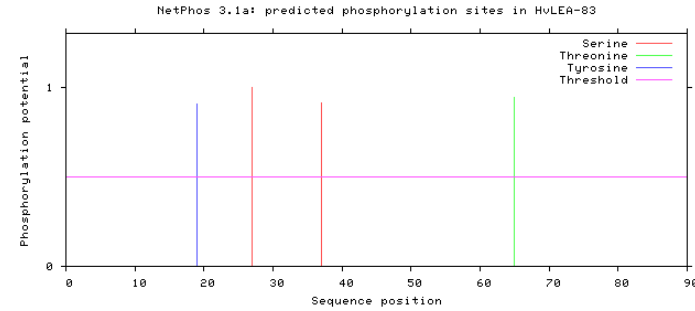
HvLEA-80



HvLEA-81



HvLEA-83



HvLEA-84

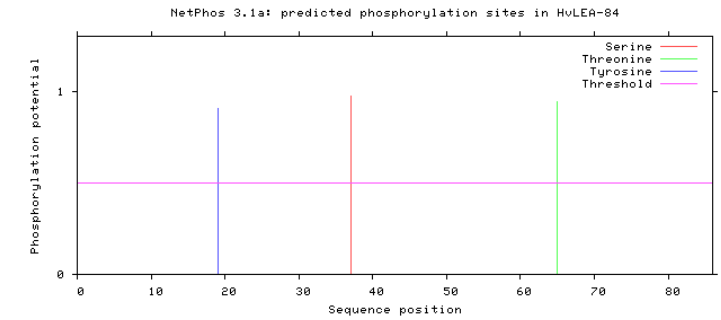
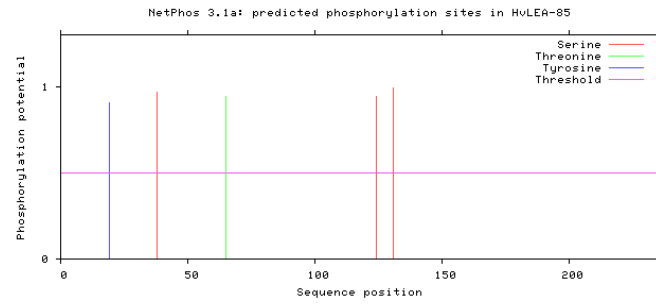
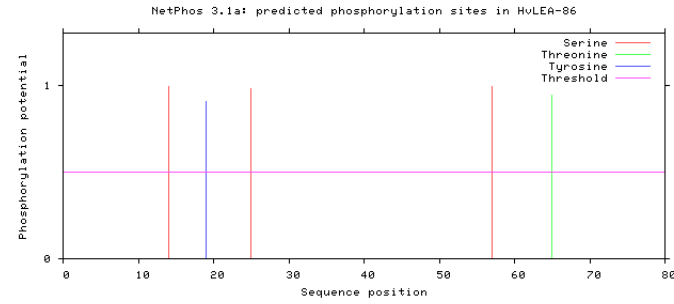


Fig. S58. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

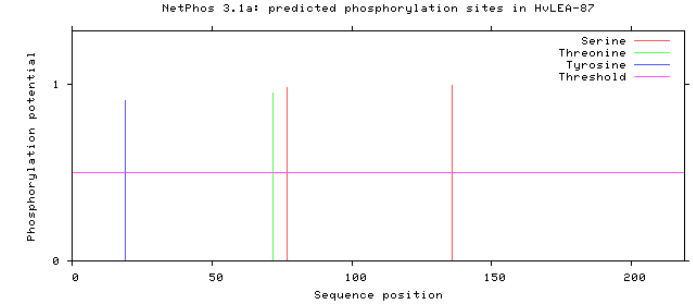
HvLEA-85



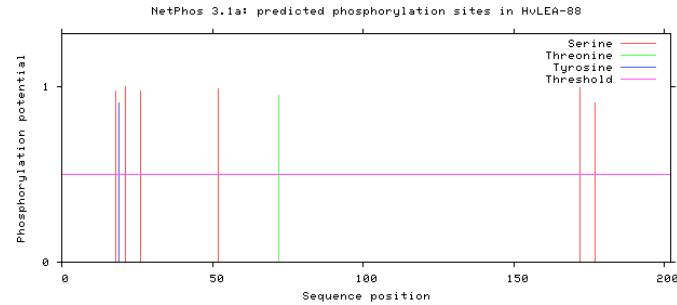
HvLEA-86



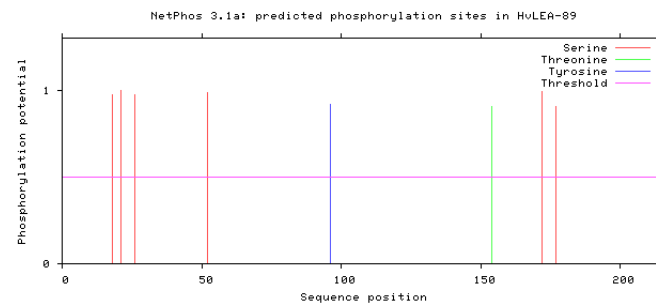
HvLEA-87



HvLEA-88



HvLEA-89



HvLEA-90

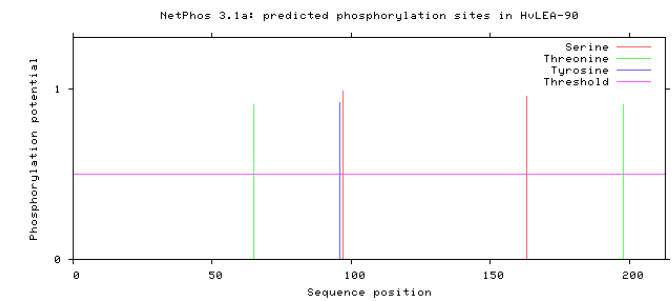
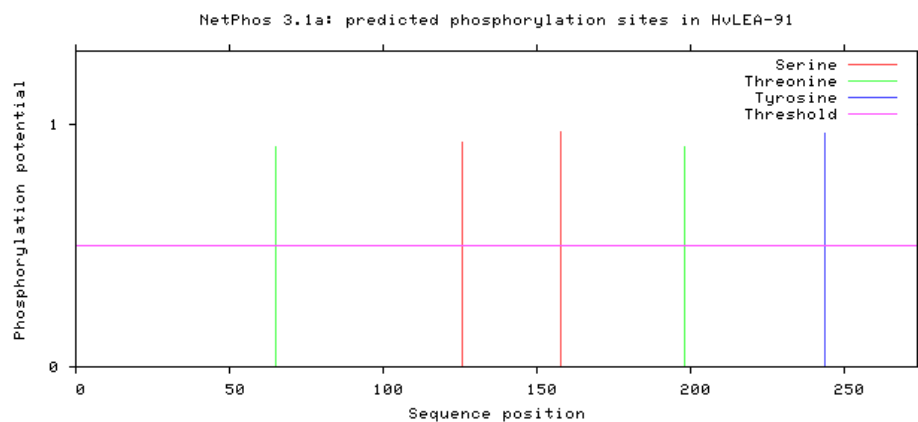
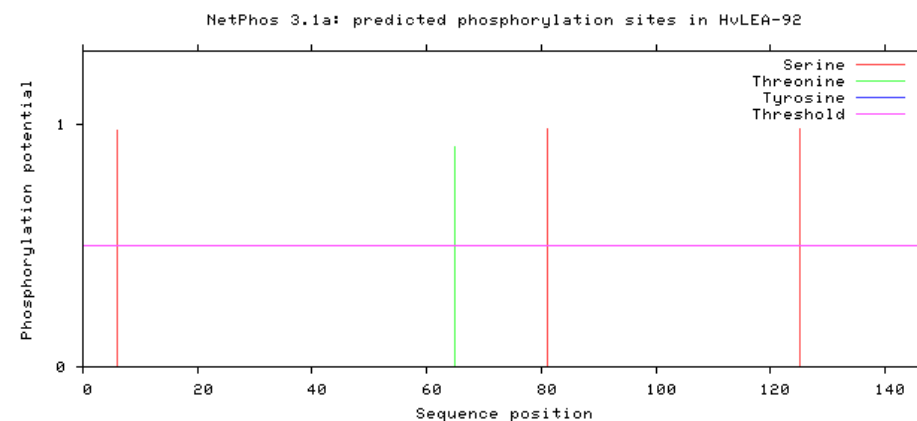


Fig. S59. HvLEA protein putative phosphorylation with serine, threonine and tyrosine

HvLEA-91



HvLEA-92



HvLEA-93

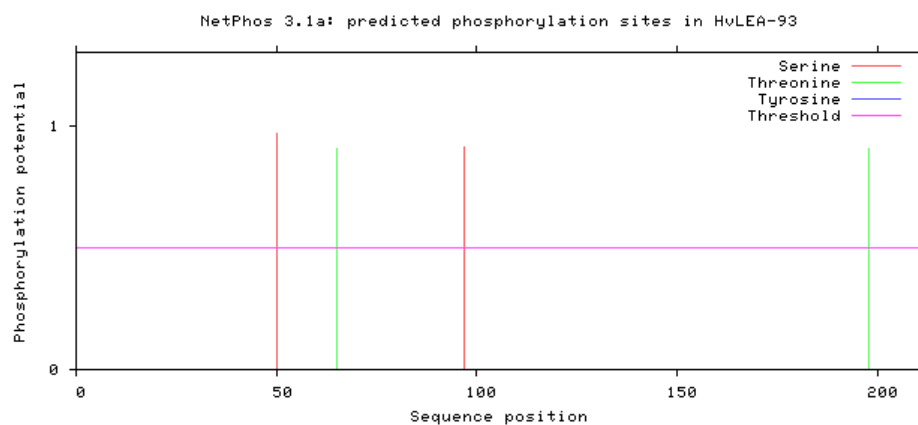
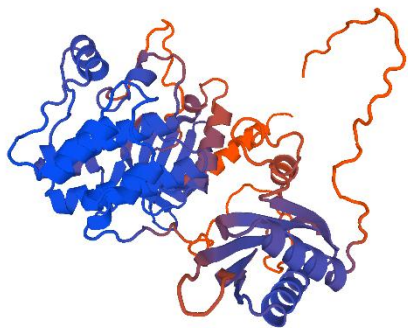
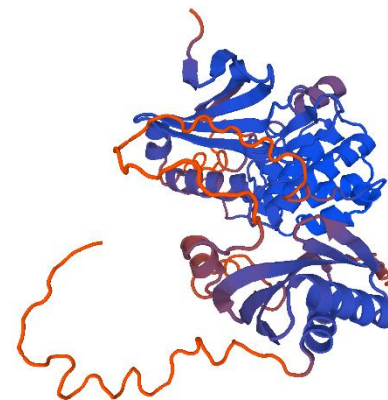


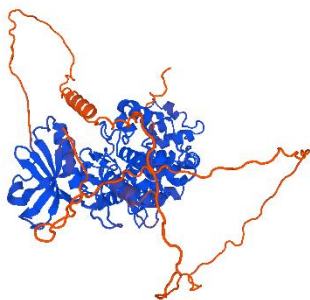
Fig. S60. HvLEA protein putative phosphorylation with serine, threonine and tyrosine



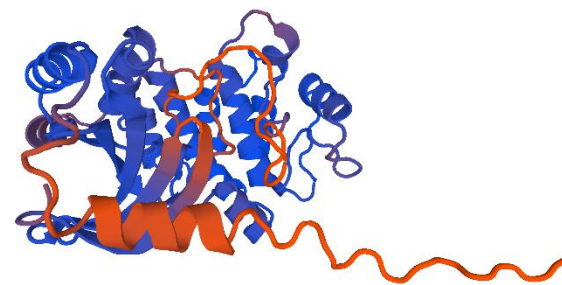
HvSnRK-1



HvSnRK-2

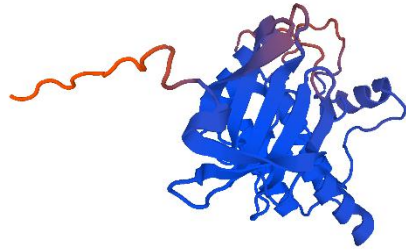


HvSnRK-3

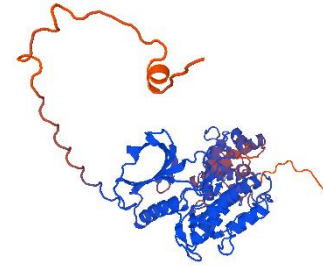


HvSnRK-4

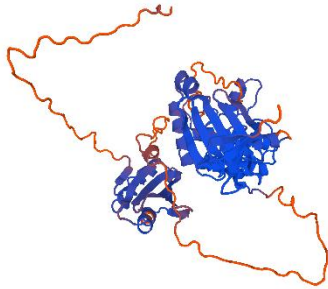
Fig. S61. HvSnRK Structural analysis protein



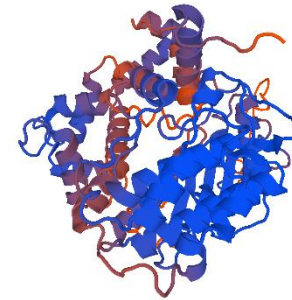
HvSnRK-5



HvSnRK-6

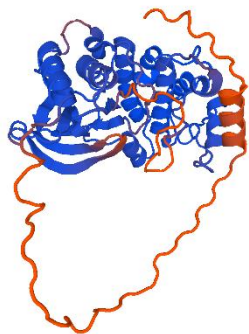


HvSnRK-7

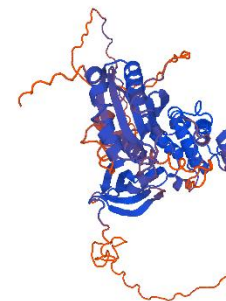


HvSnRK-8

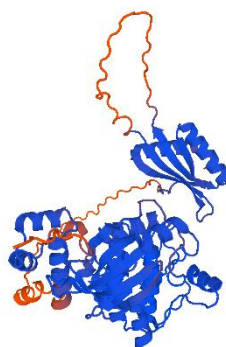
Fig. S62. HvSnRK Structural analysis protein



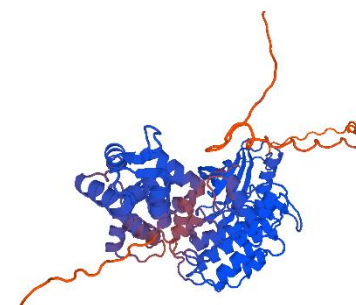
HvSnRK-9



HvSnRK-10

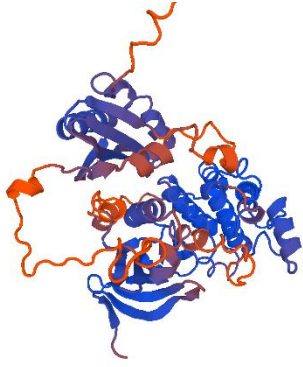


HvSnRK-11

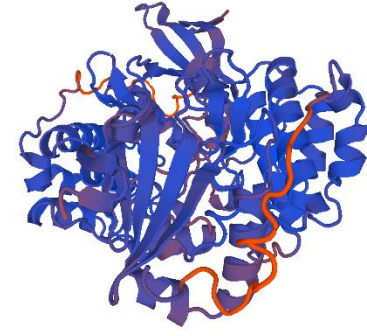


HvSnRK-12

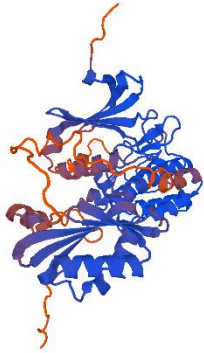
Fig. S63. HvSnRK Structural analysis protein



HvSnRK-13



HvSnRK-14

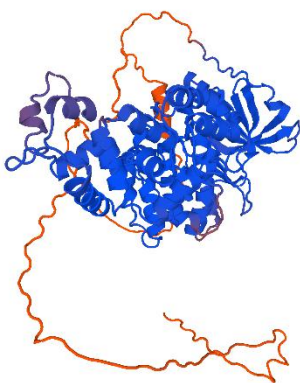


HvSnRK-15

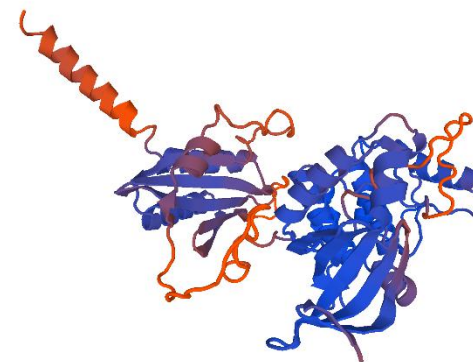


HvSnRK-16

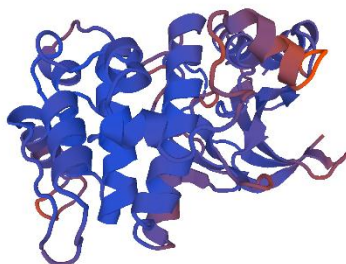
Fig. S64. HvSnRK Structural analysis protein



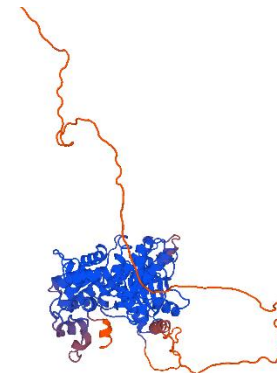
HvSnRK-17



HvSnRK-18

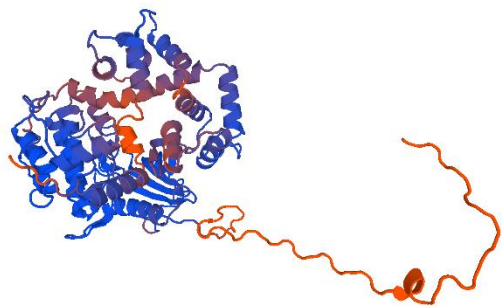


HvSnRK-19

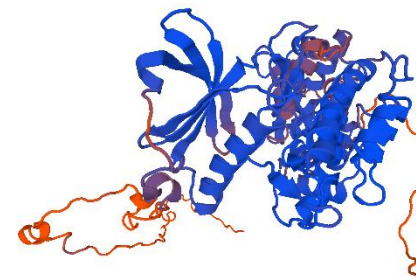


HvSnRK-20

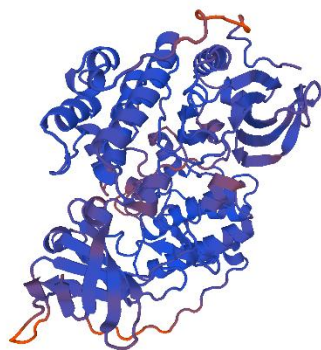
Fig. S65. HvSnRK Structural analysis protein



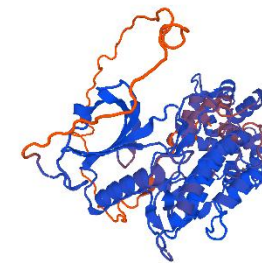
HvSnRK-21



HvSnRK-22

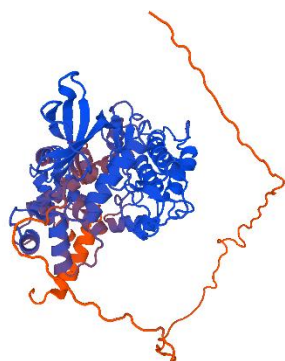


HvSnRK-23

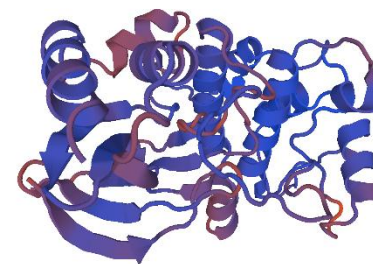


HvSnRK-24

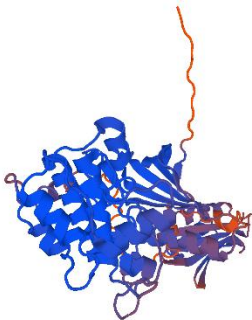
Fig. S66. HvSnRK Structural analysis protein



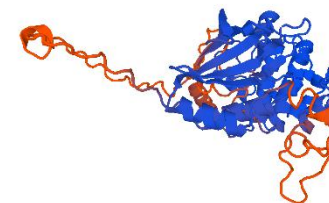
HvSnRK-25



HvSnRK-26

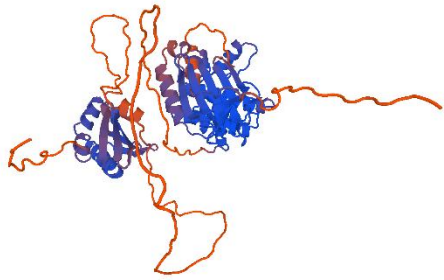


HvSnRK-27

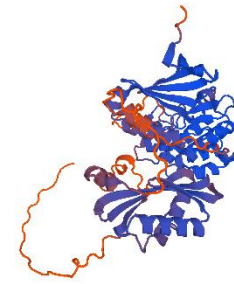


HvSnRK-28

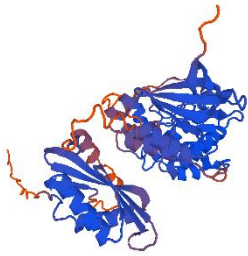
Fig. S67. HvSnRK Structural analysis protein



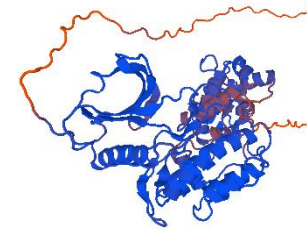
HvSnRK-29



HvSnRK-30

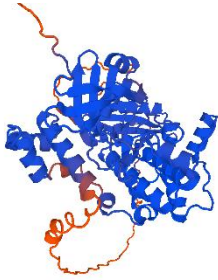


HvSnRK-31

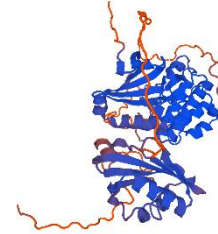


HvSnRK-32

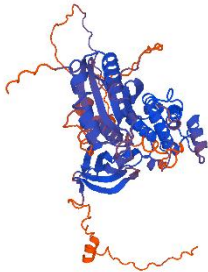
Fig. S68. HvSnRK Structural analysis protein



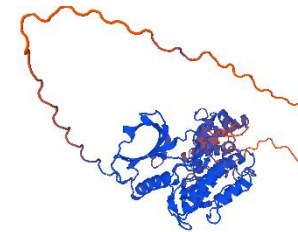
HvSnRK-33



HvSnRK-34

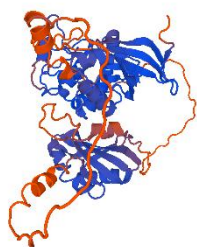


HvSnRK-35

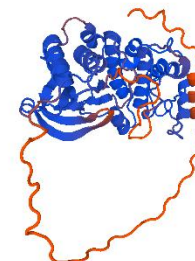


HvSnRK-36

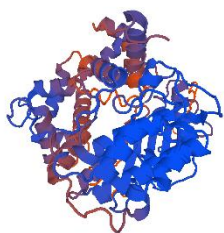
Fig. S69. HvSnRK Structural analysis protein



HvSnRK-37



HvSnRK-38

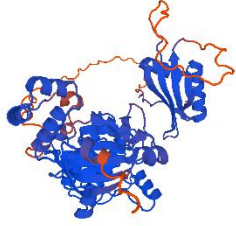


HvSnRK-39

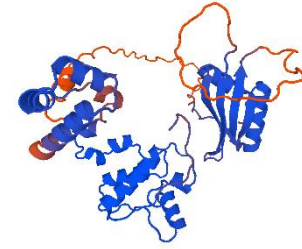


HvSnRK-40

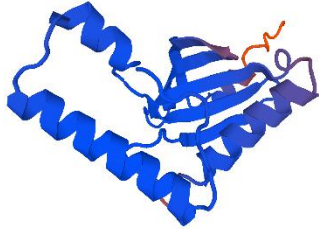
Fig. S70. HvSnRK Structural analysis protein



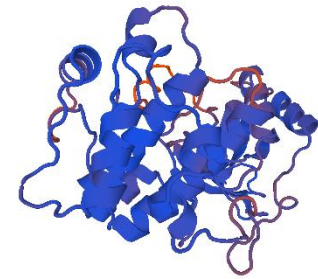
HvSnRK-41



HvSnRK-42

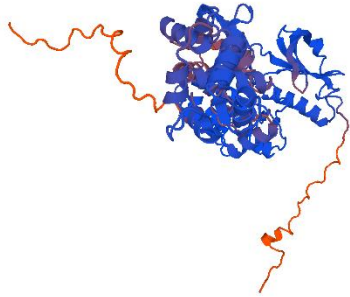


HvSnRK-43

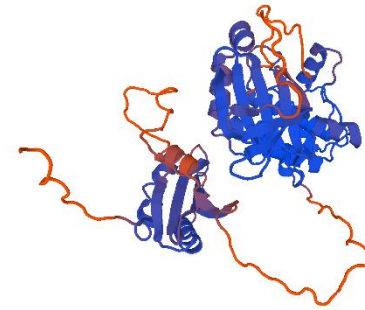


HvSnRK-44

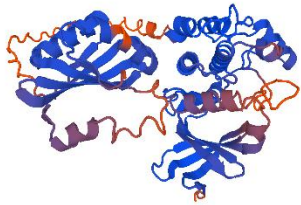
Fig. S71. HvSnRK Structural analysis protein



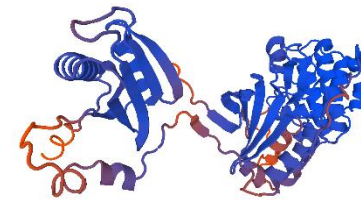
HvSnRK-45



HvSnRK-46

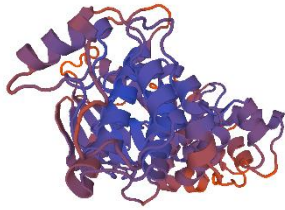


HvSnRK-47

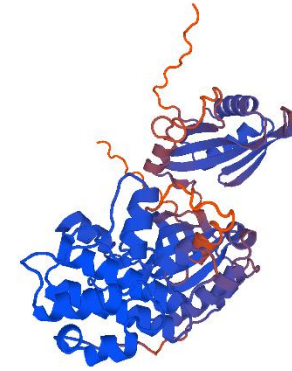


HvSnRK-48

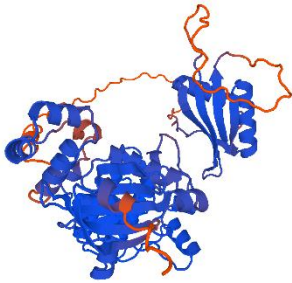
Fig. S72. HvSnRK Structural analysis protein



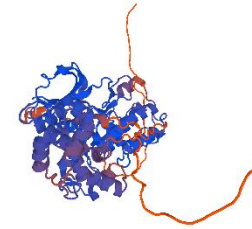
HvSnRK-49



HvSnRK-50

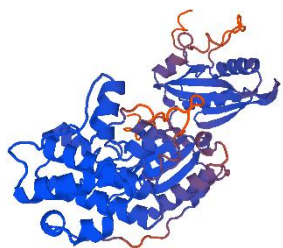


HvSnRK-51

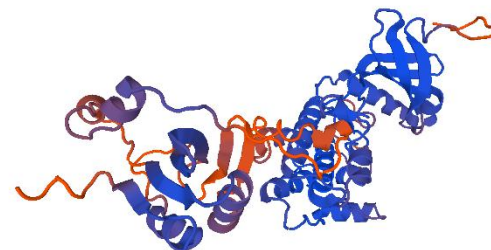


HvSnRK-52

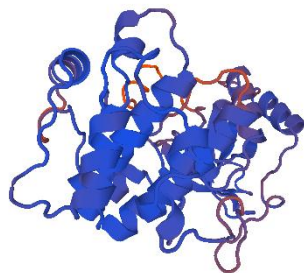
Fig. S73. HvSnRK Structural analysis protein



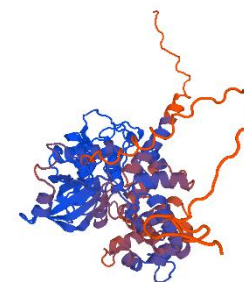
HvSnRK-53



HvSnRK-54

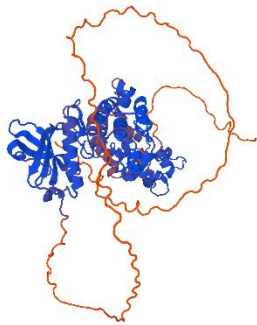


HvSnRK-55

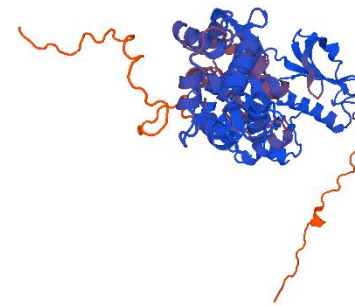


HvSnRK-56

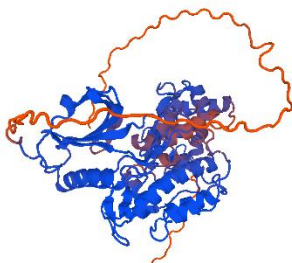
Fig. S74. HvSnRK Structural analysis protein



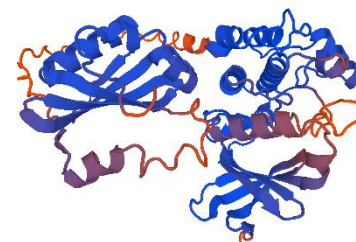
HvSnRK-57



HvSnRK-58

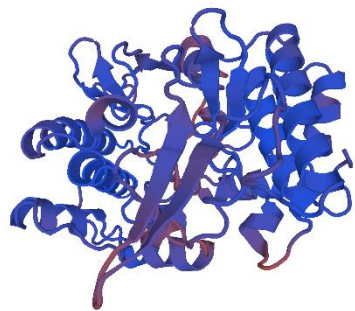


HvSnRK-59

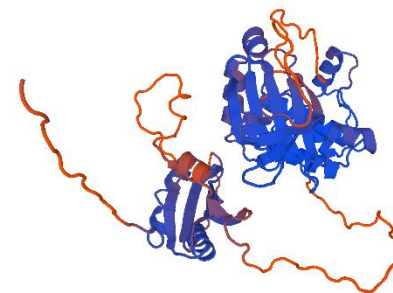


HvSnRK-60

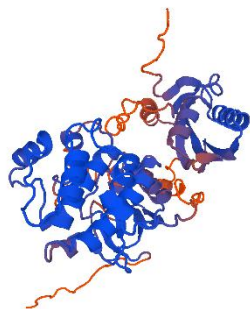
Fig. S75. HvSnRK Structural analysis protein



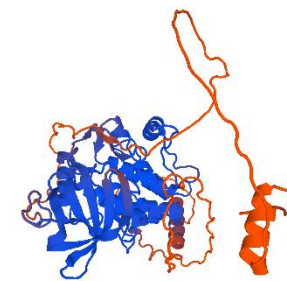
HvSnRK-61



HvSnRK-62

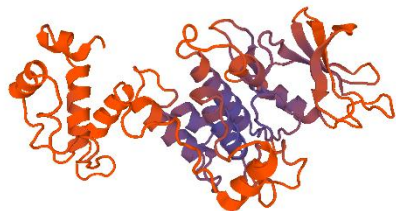


HvSnRK-63

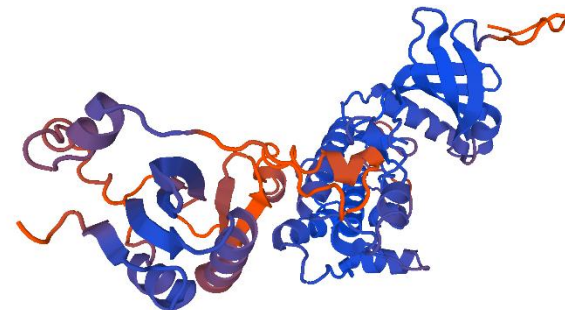


HvSnRK-64

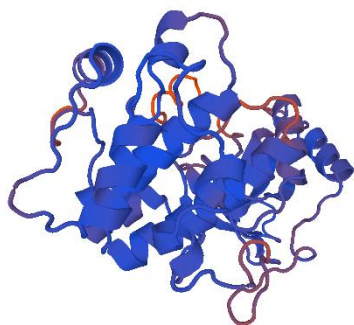
Fig. S76. HvSnRK Structural analysis protein



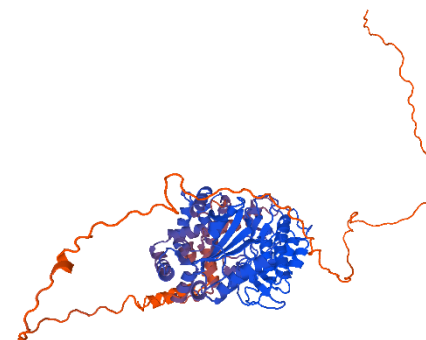
HvSnRK-65



HvSnRK-66

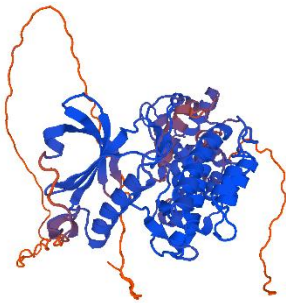


HvSnRK-67

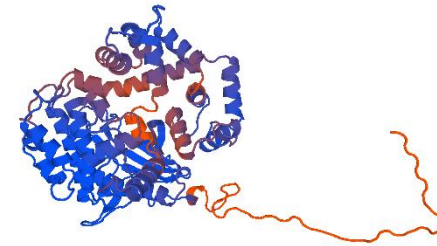


HvSnRK-68

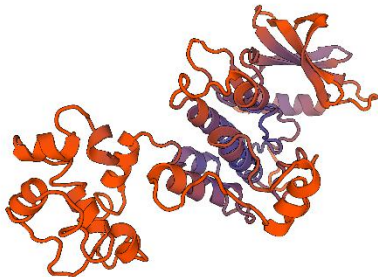
Fig. S77. HvSnRK Structural analysis protein



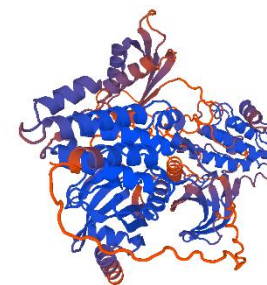
HvSnRK-69



HvSnRK-70

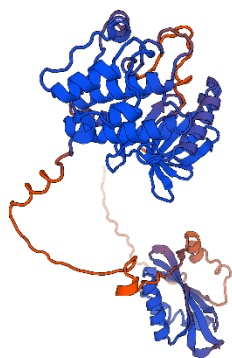


HvSnRK-71

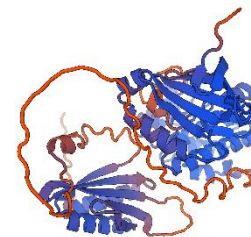


HvSnRK-72

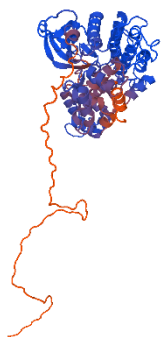
Fig. S78. HvSnRK Structural analysis protein



HvSnRK-73



HvSnRK-74

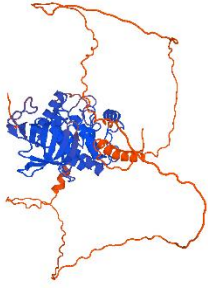


HvSnRK-75

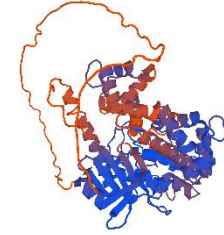


HvSnRK-76

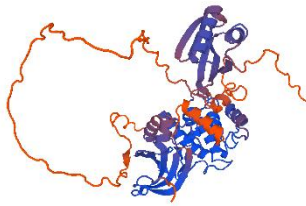
Fig. S79. HvSnRK Structural analysis protein



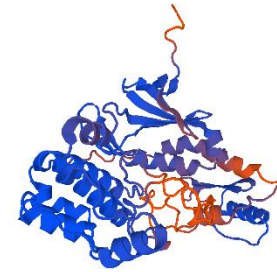
HvSnRK-77



HvSnRK-78

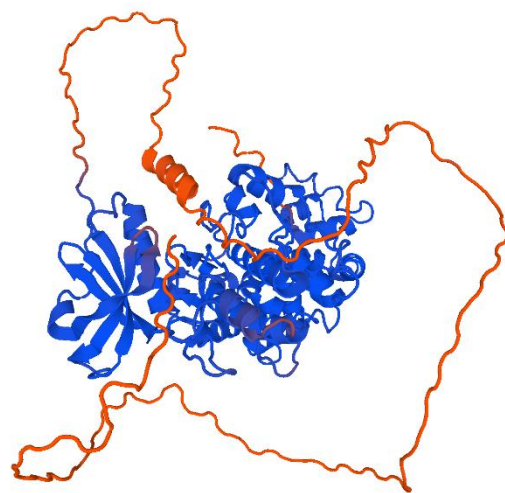


HvSnRK-79



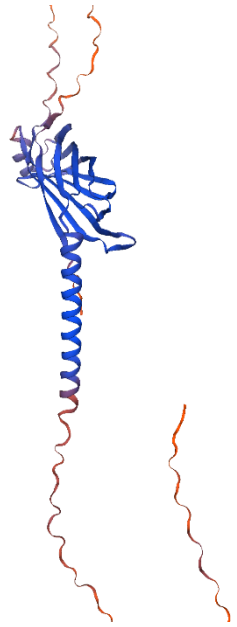
HvSnRK-80

Fig. S80. HvSnRK Structural analysis protein



HvSnRK-81

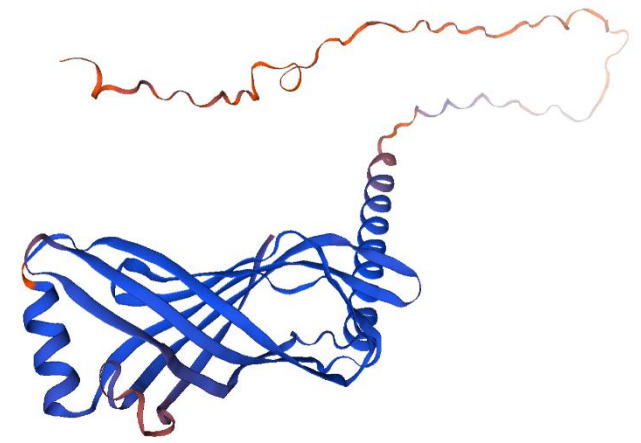
Fig. S81. HvSnRK Structural analysis protein



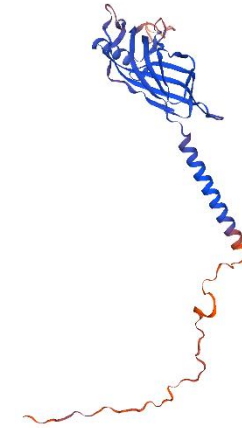
vLEA-1



HvLEA-3



HvLEA-2

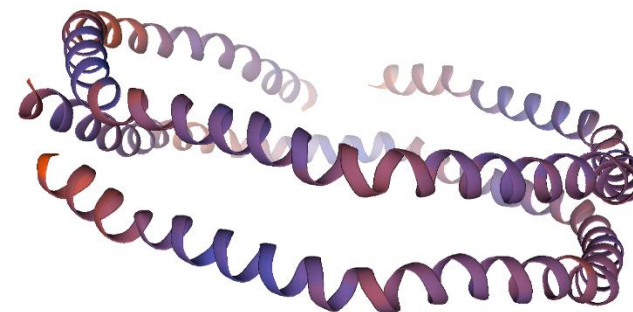


HvLEA-4

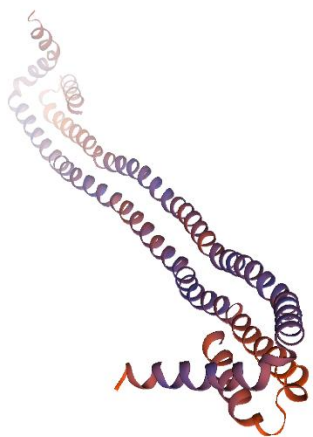
Fig. 82. HvLEA Structural analysis protein



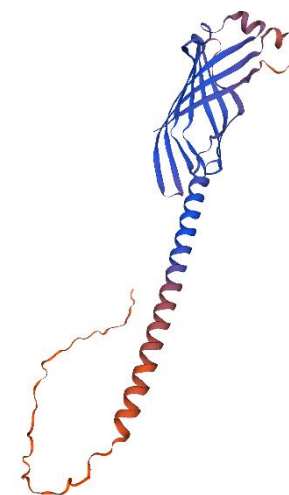
HvLEA-5



HvLEA-6

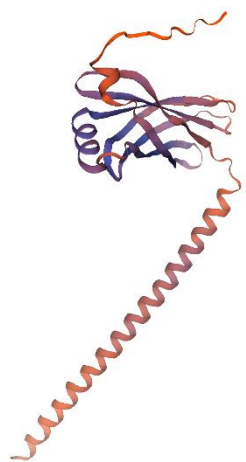


HvLEA-7

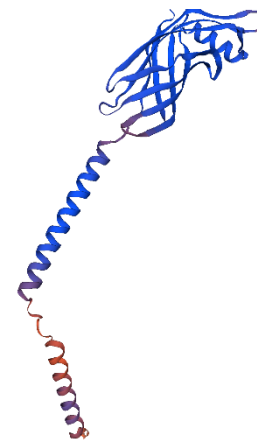


HvLEA-8

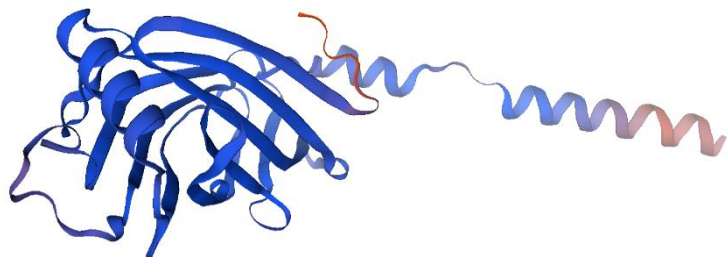
Fig. S83. HvLEA Structural analysis protein



HvLEA-9



HvLEA-10

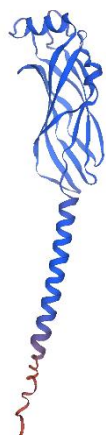


HvLEA-11

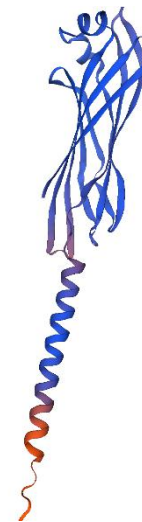


HvLEA-12

Fig. S84. HvLEA Structural analysis protein



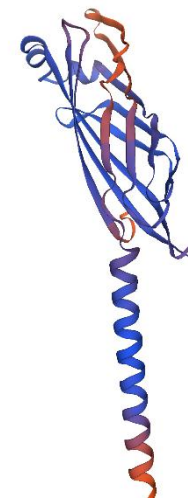
HvLEA-13



HvLEA-14

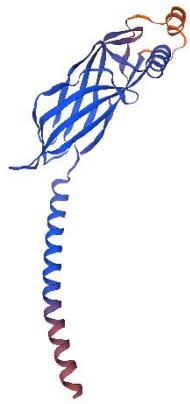


HvLEA-15

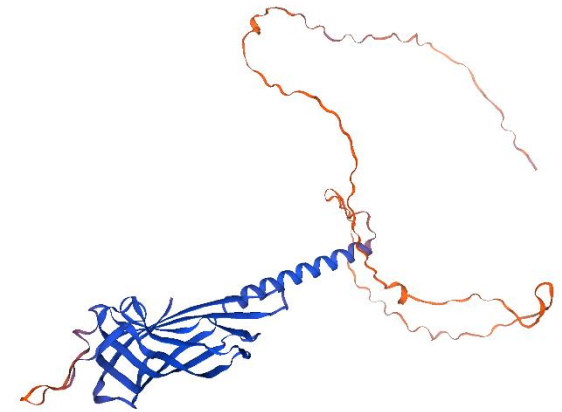


HvLEA-16

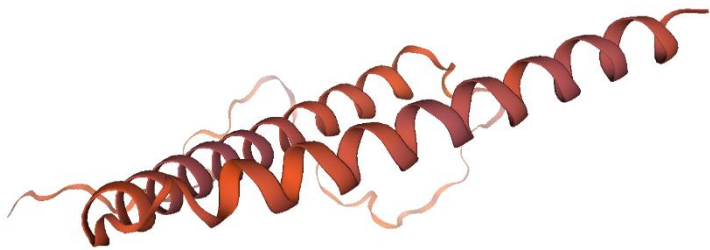
Fig. S85. HvLEA Structural analysis protein



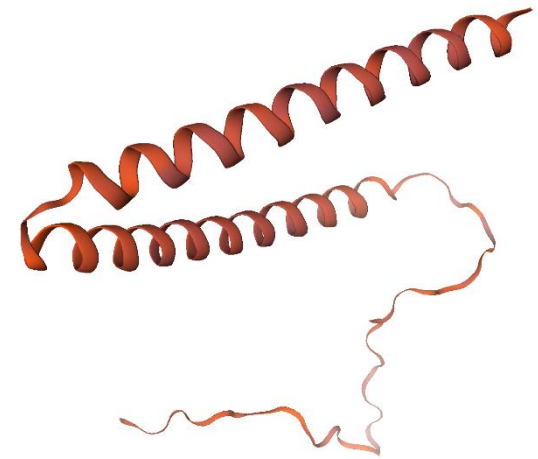
HvLEA-17



HvLEA-18



HvLEA-19

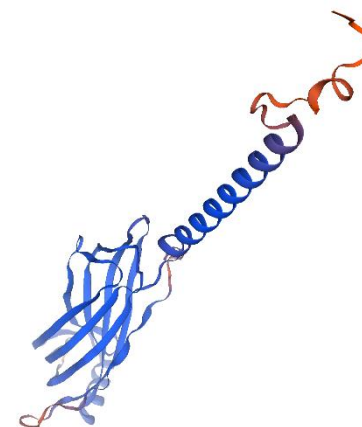


HvLEA-20

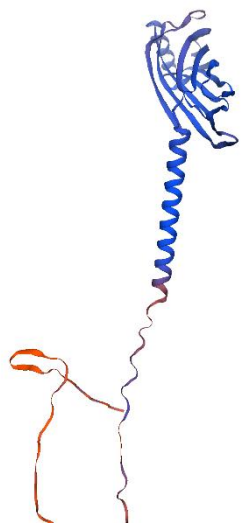
Fig. S86. HvLEA Structural analysis protein



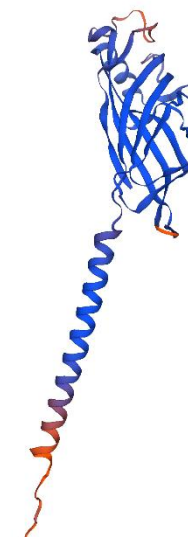
HvLEA-21



HvLEA-22

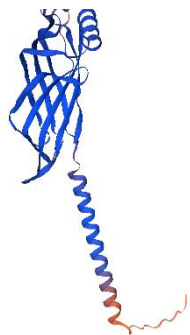


HvLEA-23

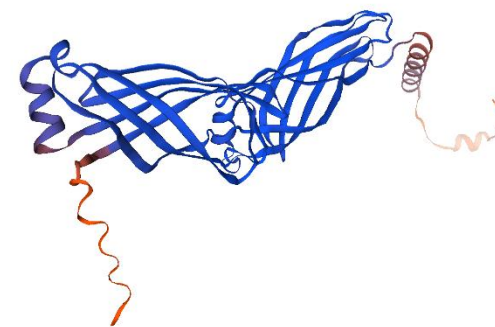


HvLEA-24

Fig. S87. HvLEA Structural analysis protein



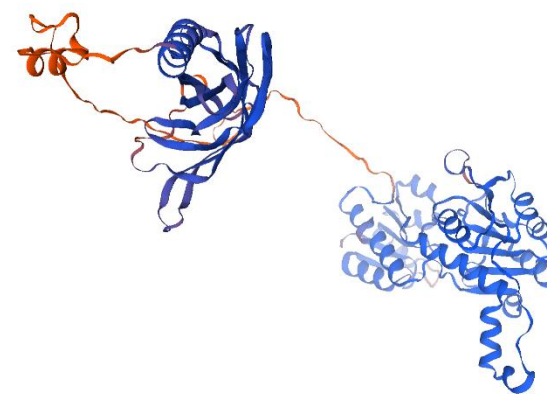
HvLEA-25



HvLEA-26

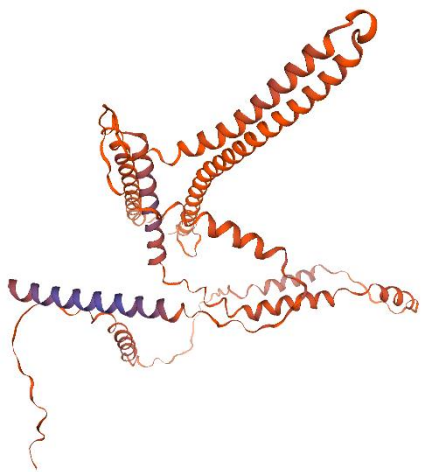


HvLEA-27

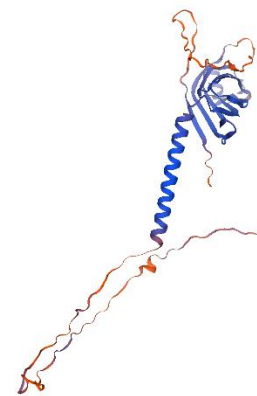


HvLEA-28

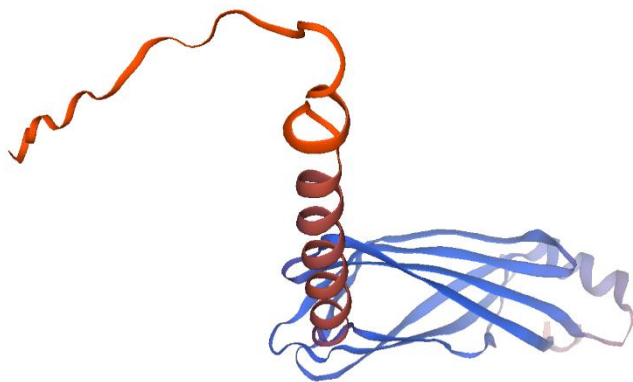
Fig. S88. HvLEA Structural analysis protein



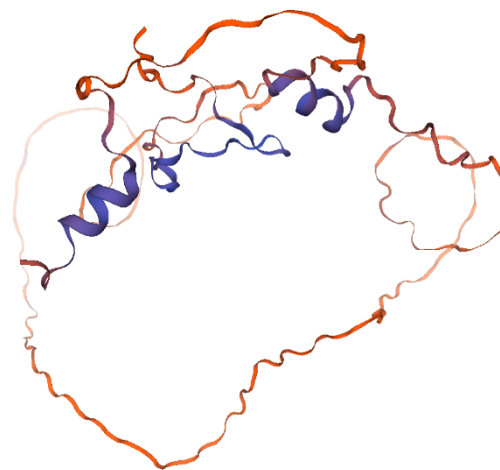
HvLEA-29



HvLEA-30



HvLEA-31

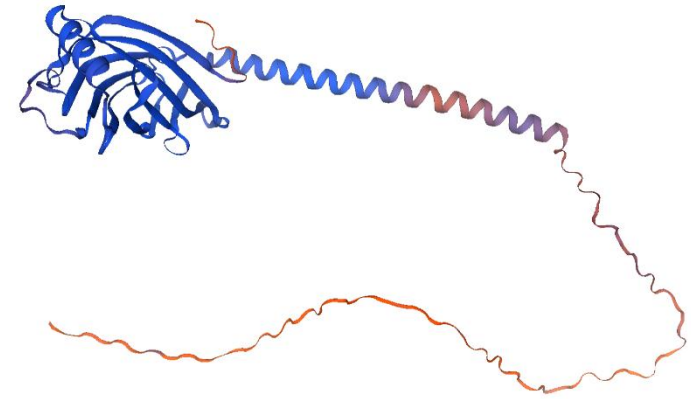


HvLEA-32

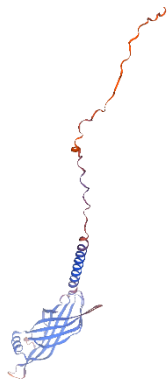
Fig. S89. HvLEA Structural analysis protein



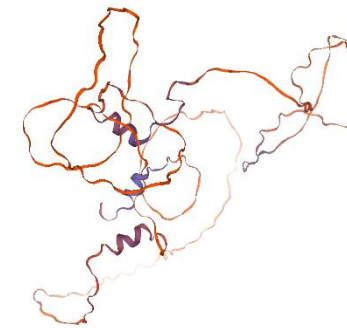
HvLEA-33



HvLEA-34

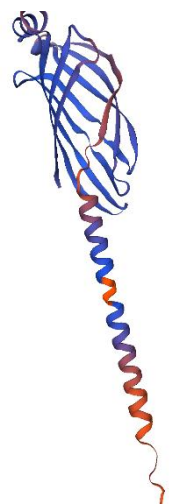


HvLEA-35



HvLEA-36

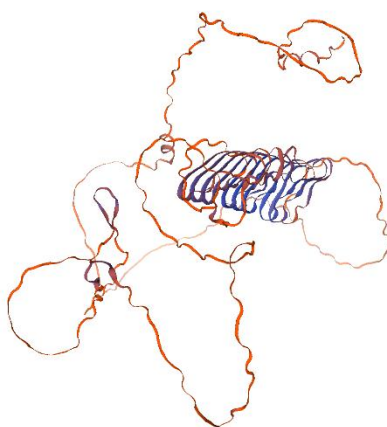
Fig. S90. HvLEA Structural analysis protein



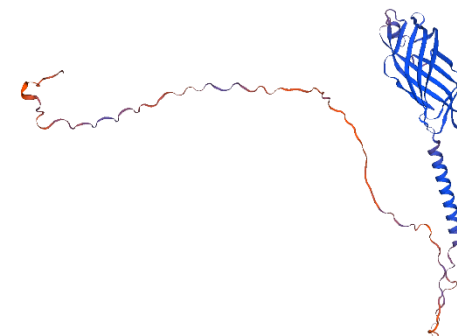
HvLEA-37



HvLEA-38

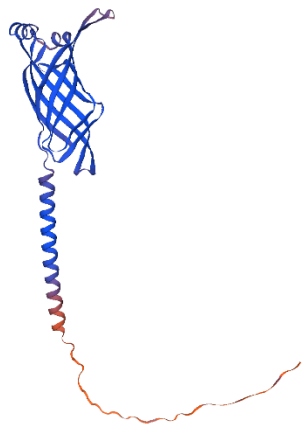


HvLEA-39

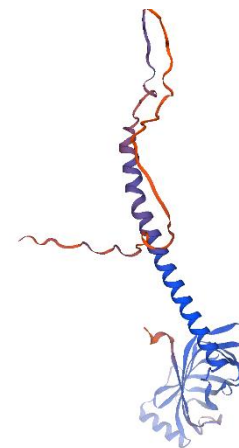


HvLEA-40

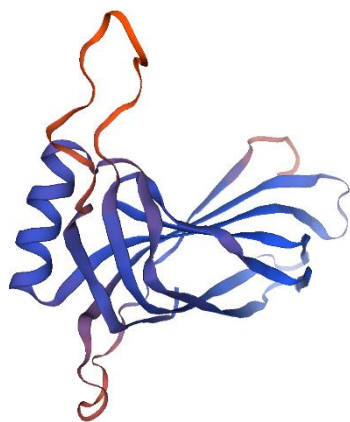
Fig. S91. HvLEA Structural analysis protein



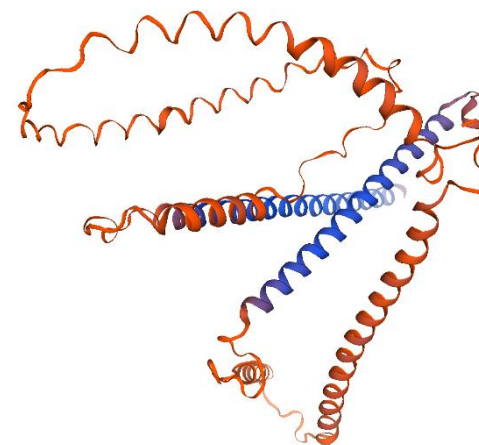
HvLEA-41



HvLEA-42

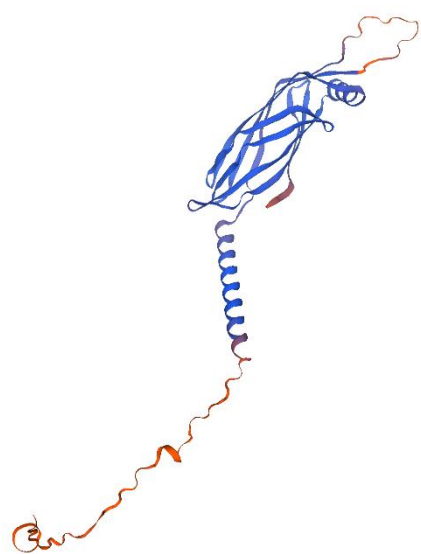


HvLEA-43

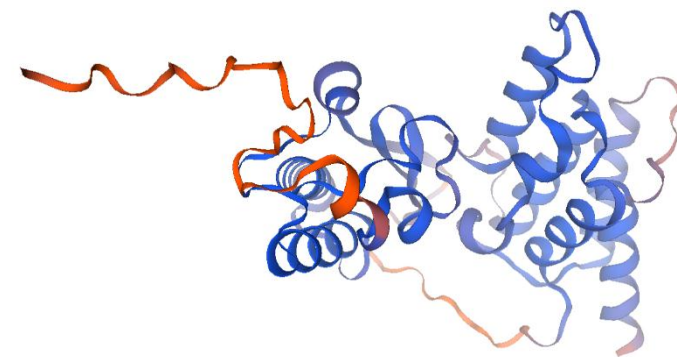


HvLEA-44

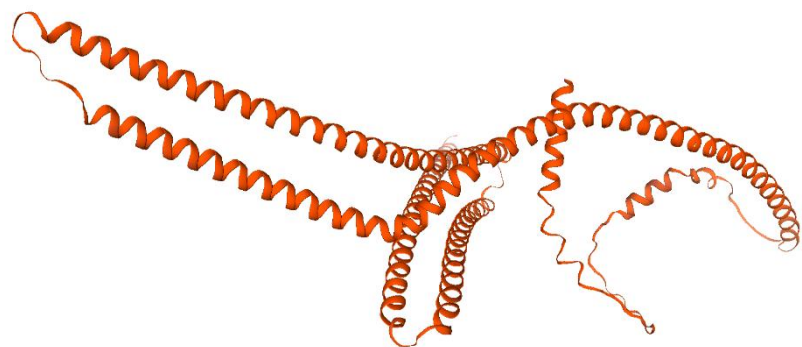
Fig. S92. HvLEA Structural analysis protein



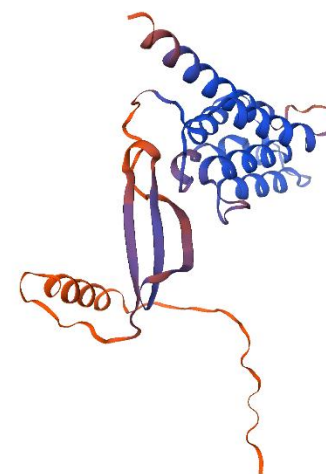
HvLEA-45



HvLEA-46

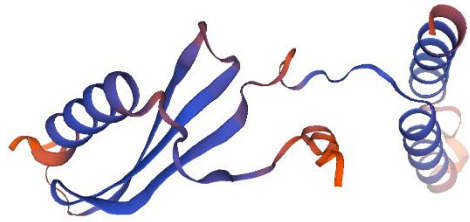


HvLEA-47

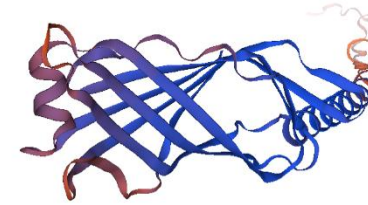


HvLEA-48

Fig. S93. HvLEA Structural analysis protein



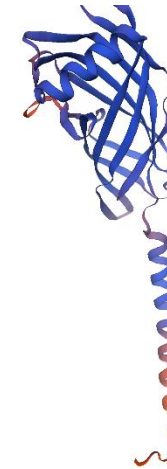
HvLEA-49



HvLEA-50

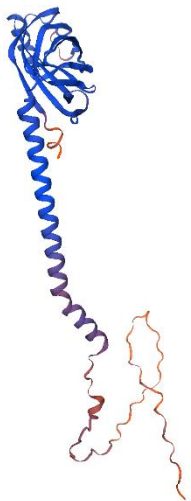


HvLEA-51

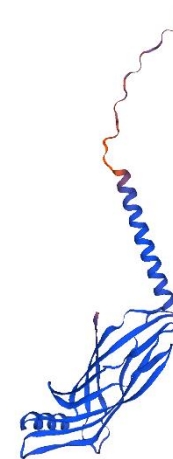


HvLEA-52

Fig. S94. HvLEA Structural analysis protein



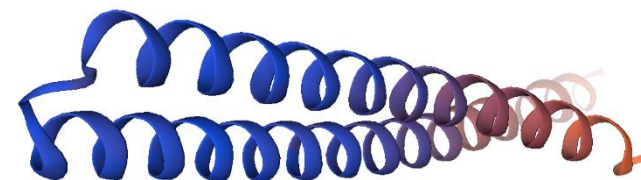
HvLEA-53



HvLEA-54

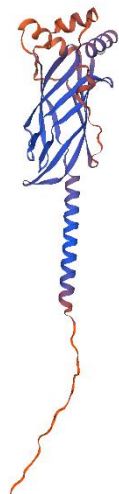


HvLEA-55

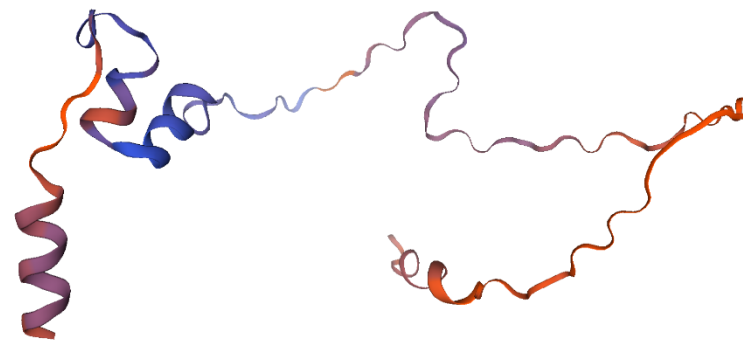


HvLEA-56

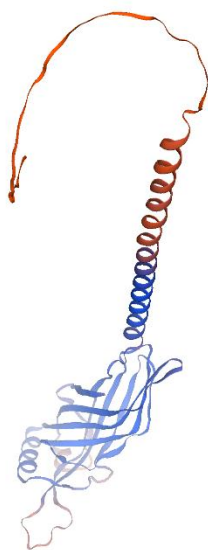
Fig. S95. HvLEA Structural analysis protein



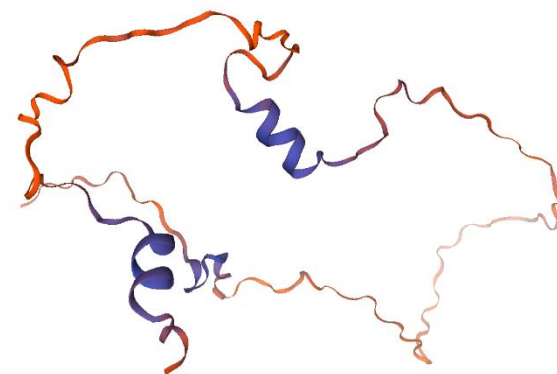
HvLEA-57



HvLEA-58

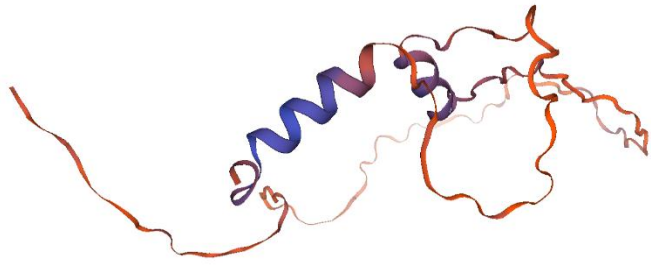


HvLEA-59

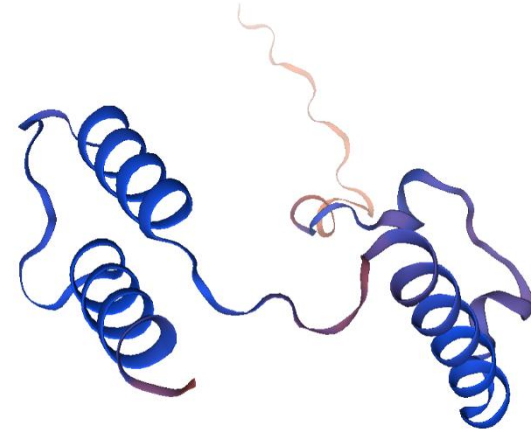


HvLEA-60

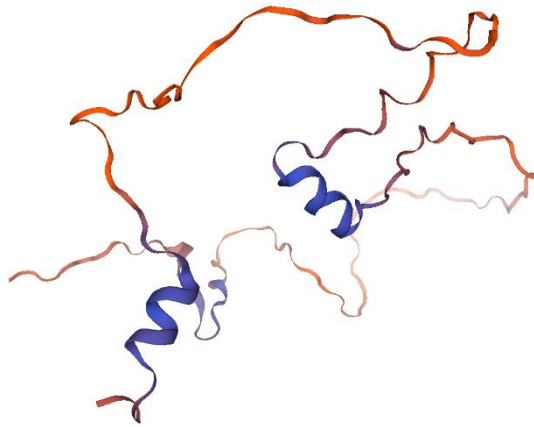
Fig. S96. HvLEA Structural analysis protein



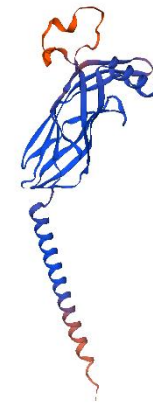
HvLEA-61



HvLEA-62

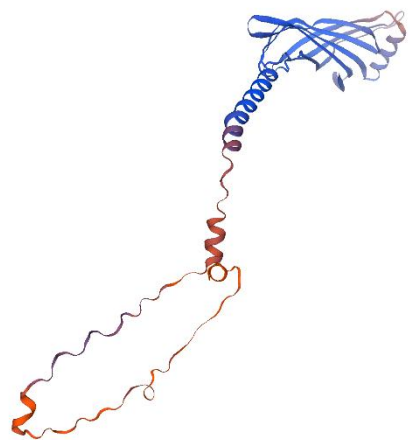


HvLEA-63



HvLEA-64

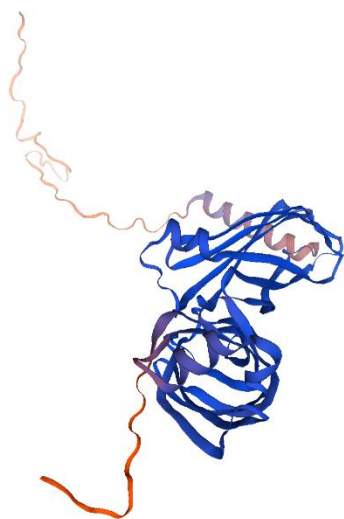
Fig. S97. HvLEA Structural analysis protein



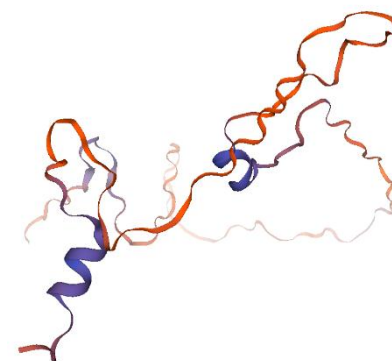
HvLEA-65



HvLEA-66

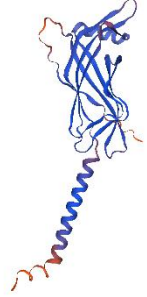


HvLEA-67

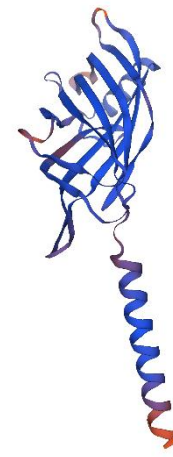


HvLEA-68

Fig. S98. HvLEA Structural analysis protein



HvLEA-69



HvLEA-70



HvLEA-71

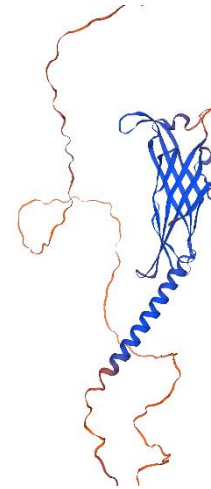


HvLEA-72

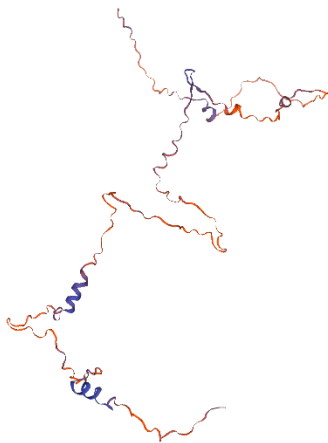
Fig. S99. HvLEA Structural analysis protein



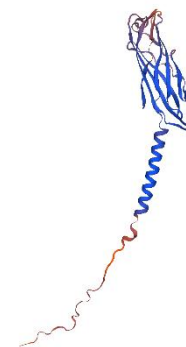
HvLEA-73



HvLEA-74



HvLEA-75

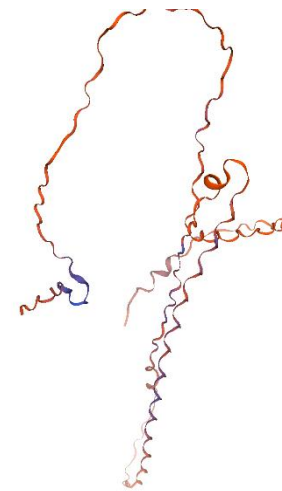


HvLEA-76

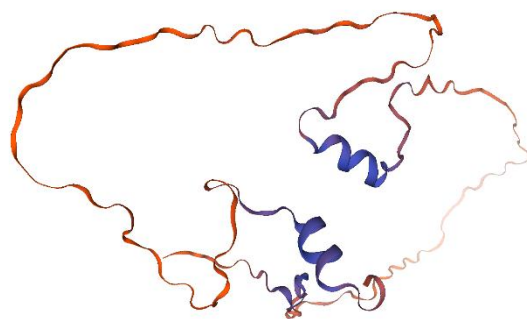
Fig. S100. HvLEA Structural analysis protein



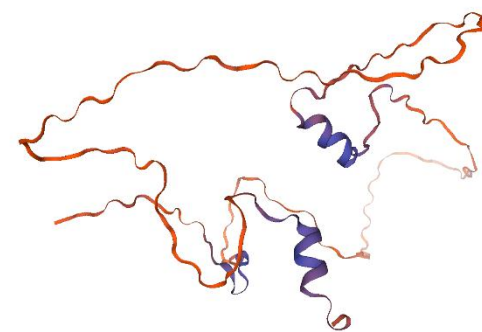
HvLEA-77



HvLEA-78

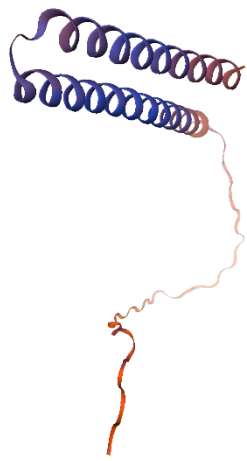


HvLEA-79

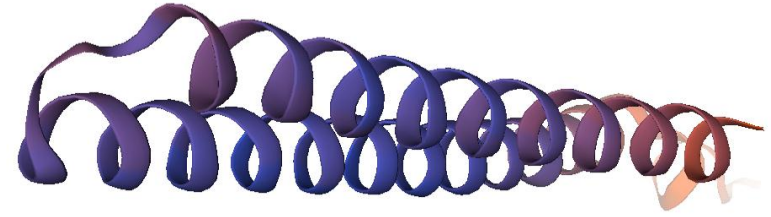


HvLEA-80

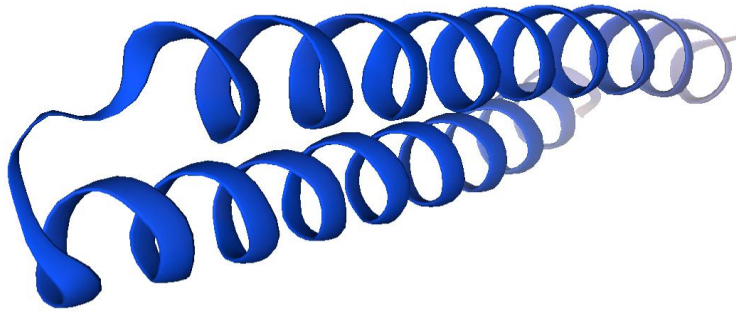
Fig. S101. HvLEA Structural analysis protein



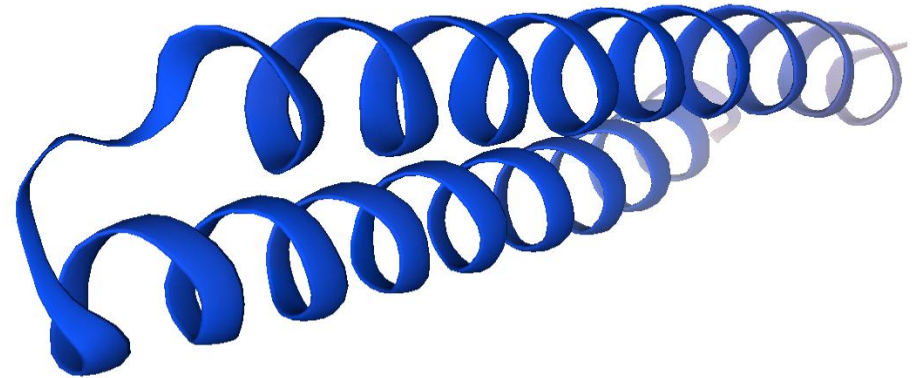
HvLEA-81



HvLEA-82



HvLEA-83



HvLEA-84

Fig. S102. HvLEA Structural analysis protein



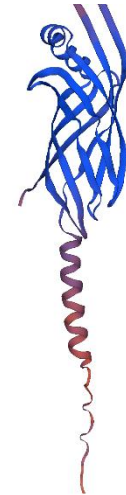
HvLEA-85



HvLEA-86



HvLEA-87

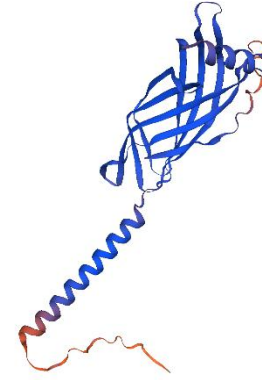


HvLEA-88

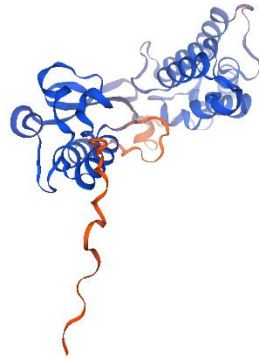
Fig. S103. HvLEA Structural analysis protein



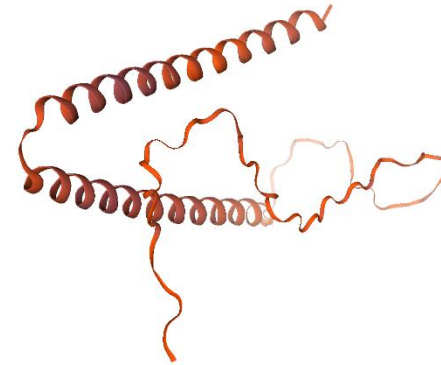
HvLEA-89



HvLEA-90



HvLEA-91



HvLEA-92

Fig. S104. HvLEA Structural analysis protein



HvLEA-93

Fig. S105. HvLEA Structural analysis protein

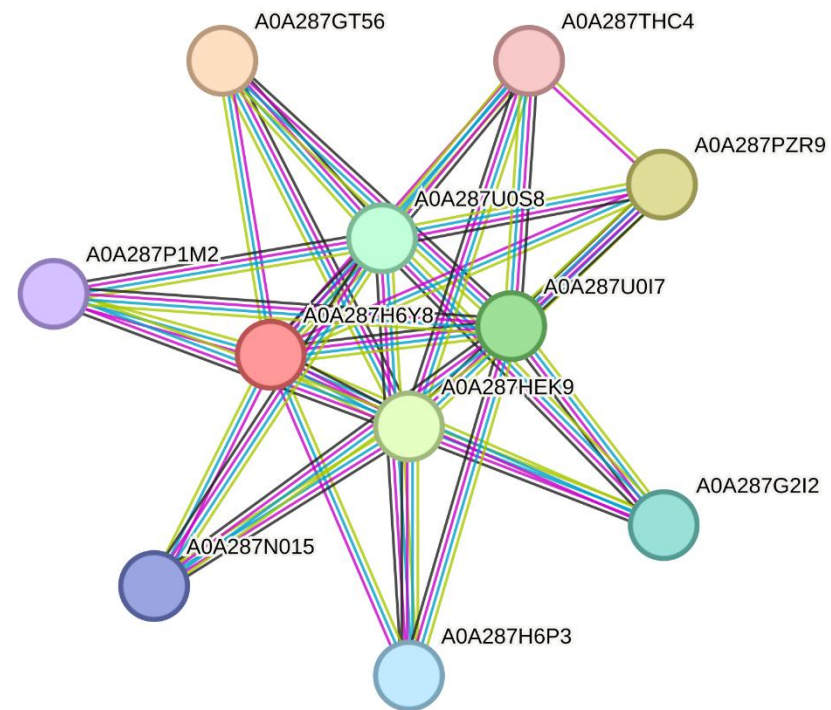
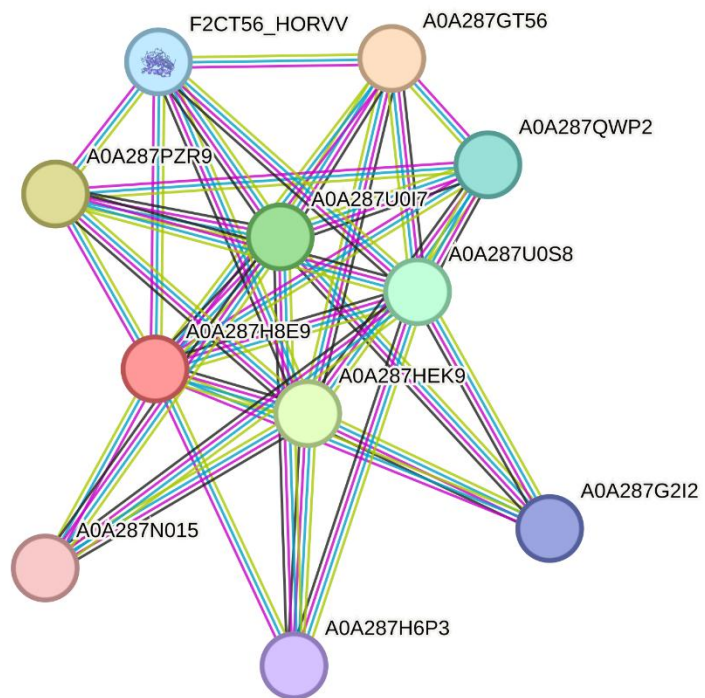
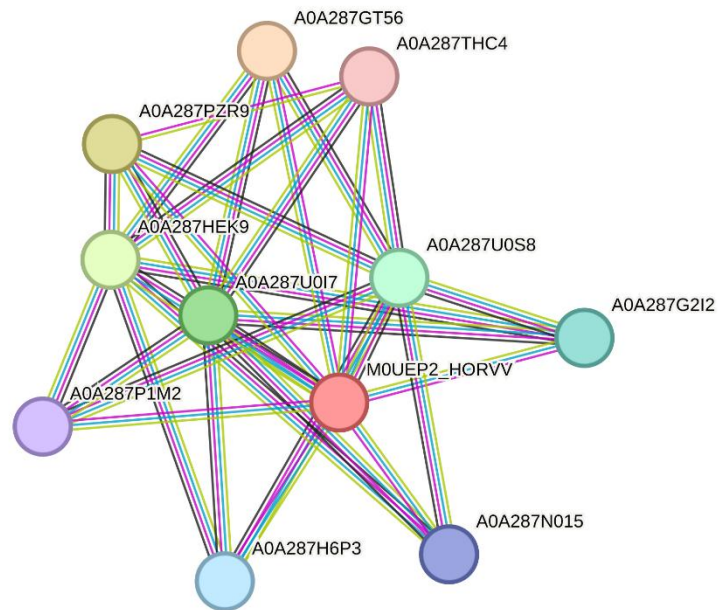


Fig. S106. Protein-protein interaction (PPI) network of HvSnRK clusters

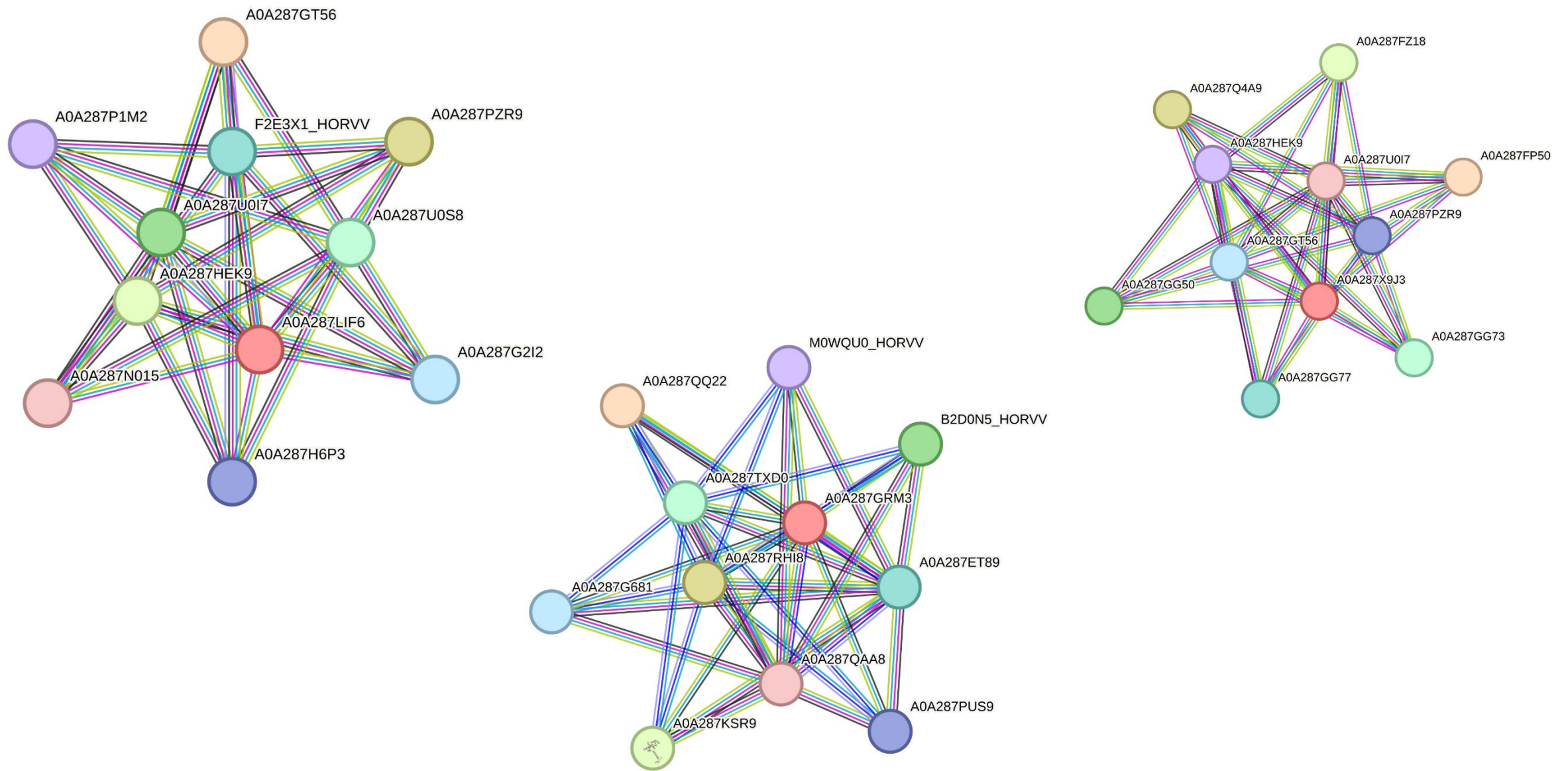


Fig. S107. Protein-protein interaction (PPI) network of HvSnRK clusters

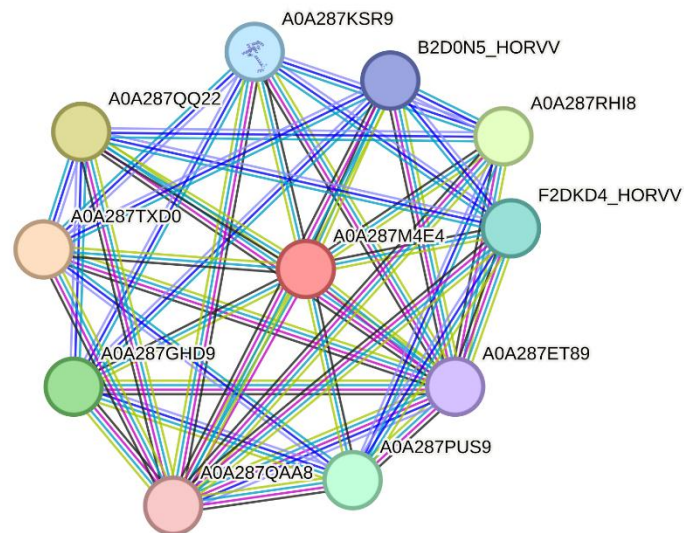
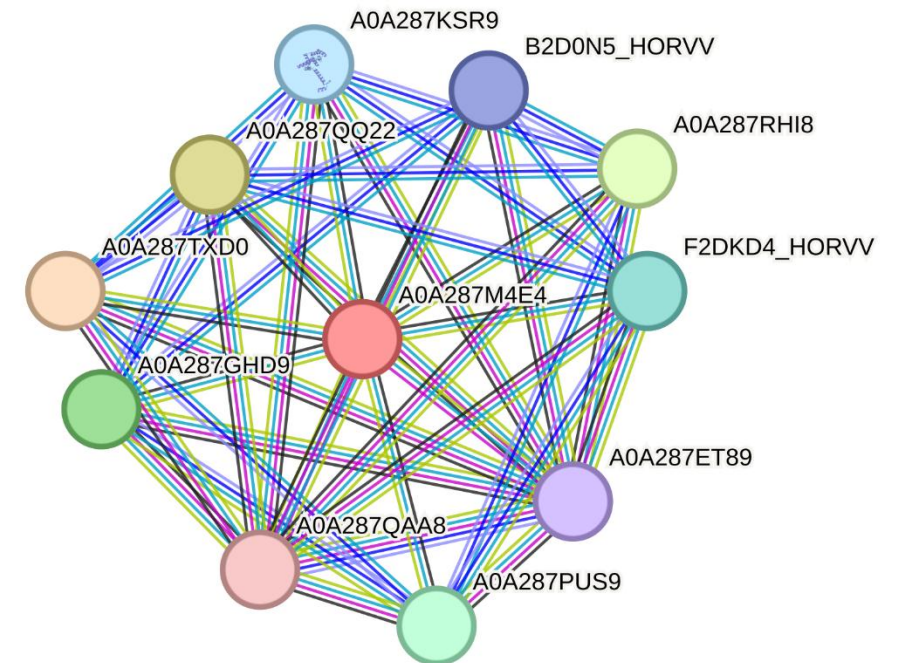
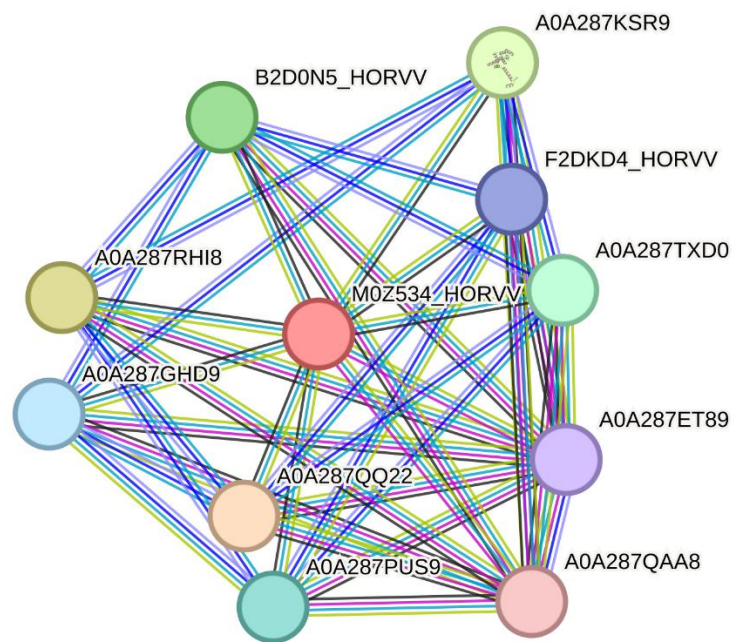


Fig. S108. Protein-protein interaction (PPI) network of HvSnRK clusters

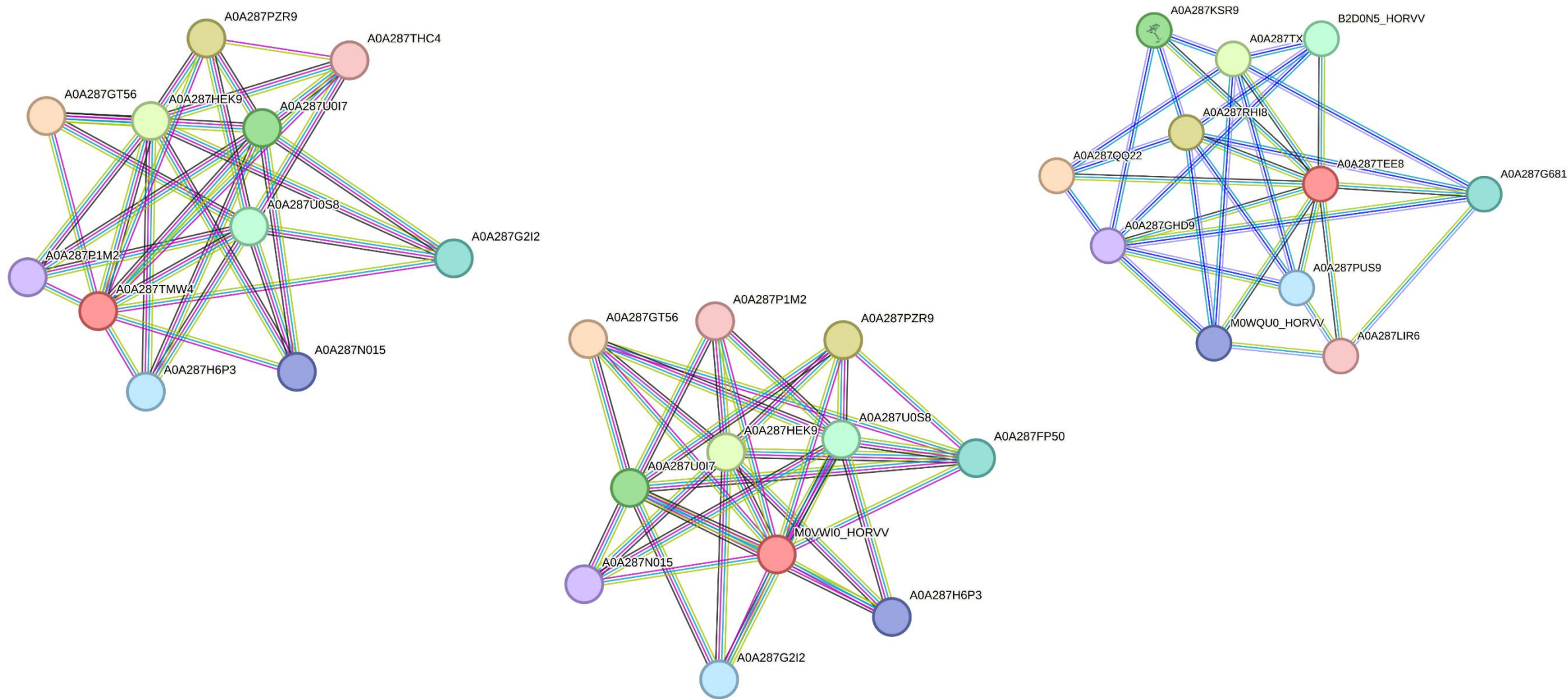


Fig. S109. Protein-protein interaction (PPI) network of HvSnRK clusters

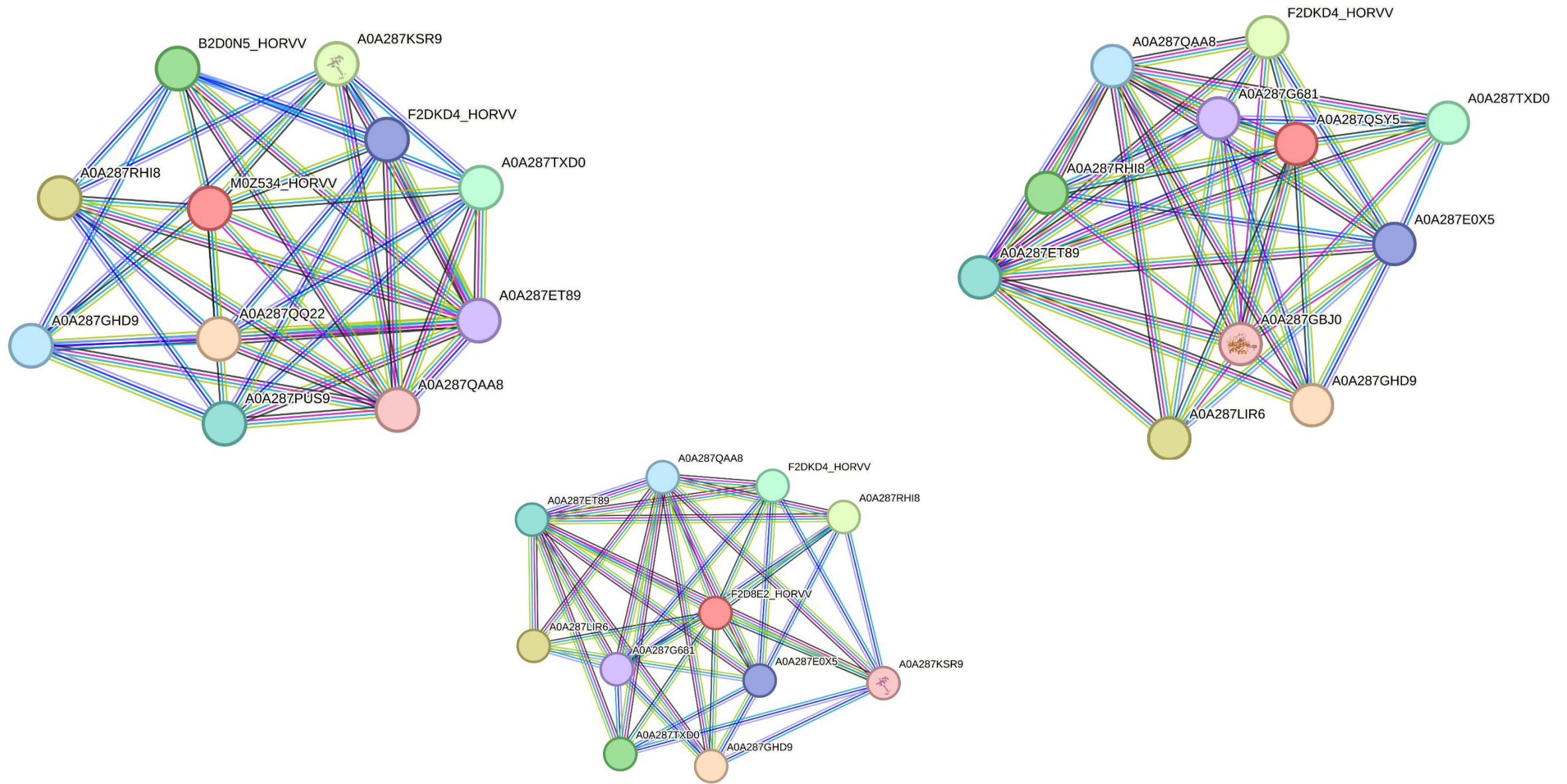


Fig. S110. Protein-protein interaction (PPI) network of HvSnRK clusters

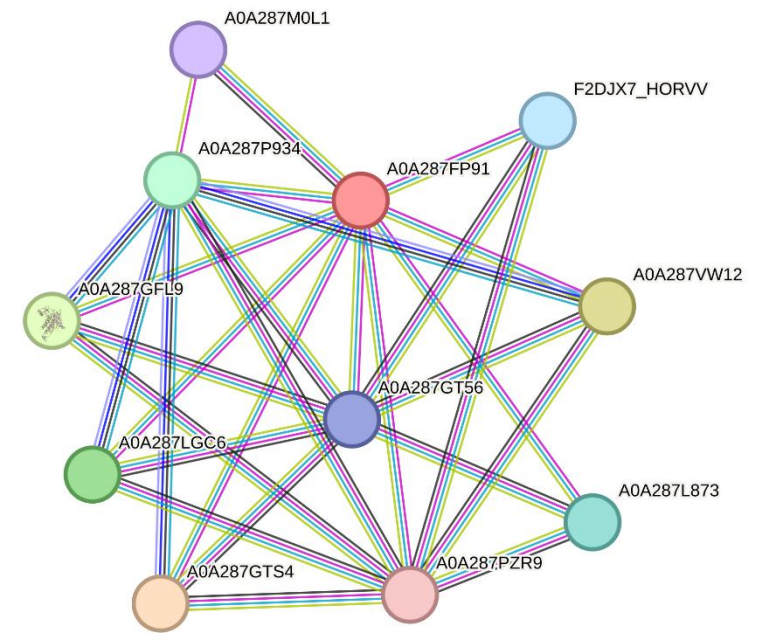
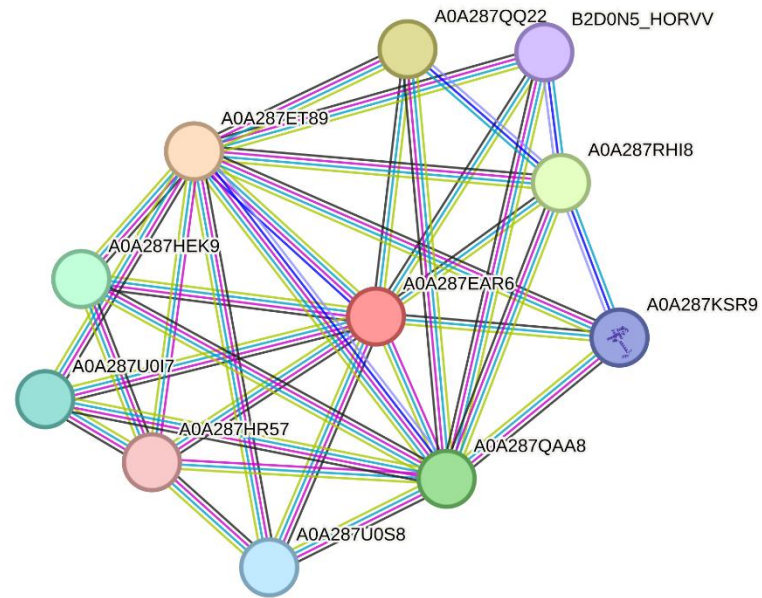
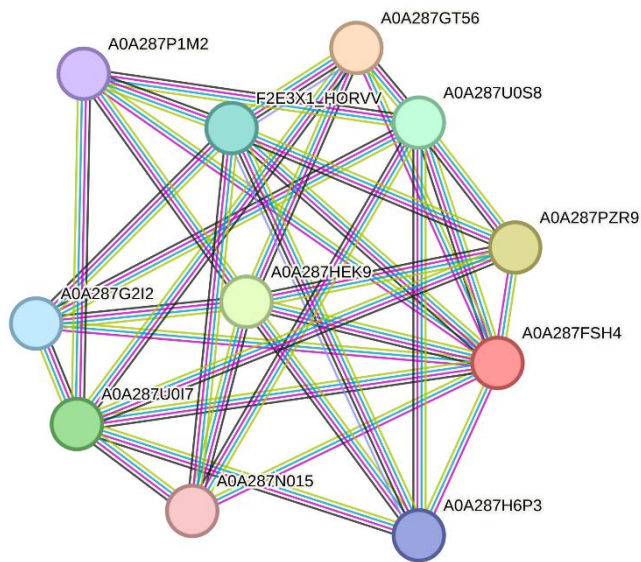


Fig. S111. Protein-protein interaction (PPI) network of HvSnRK clusters

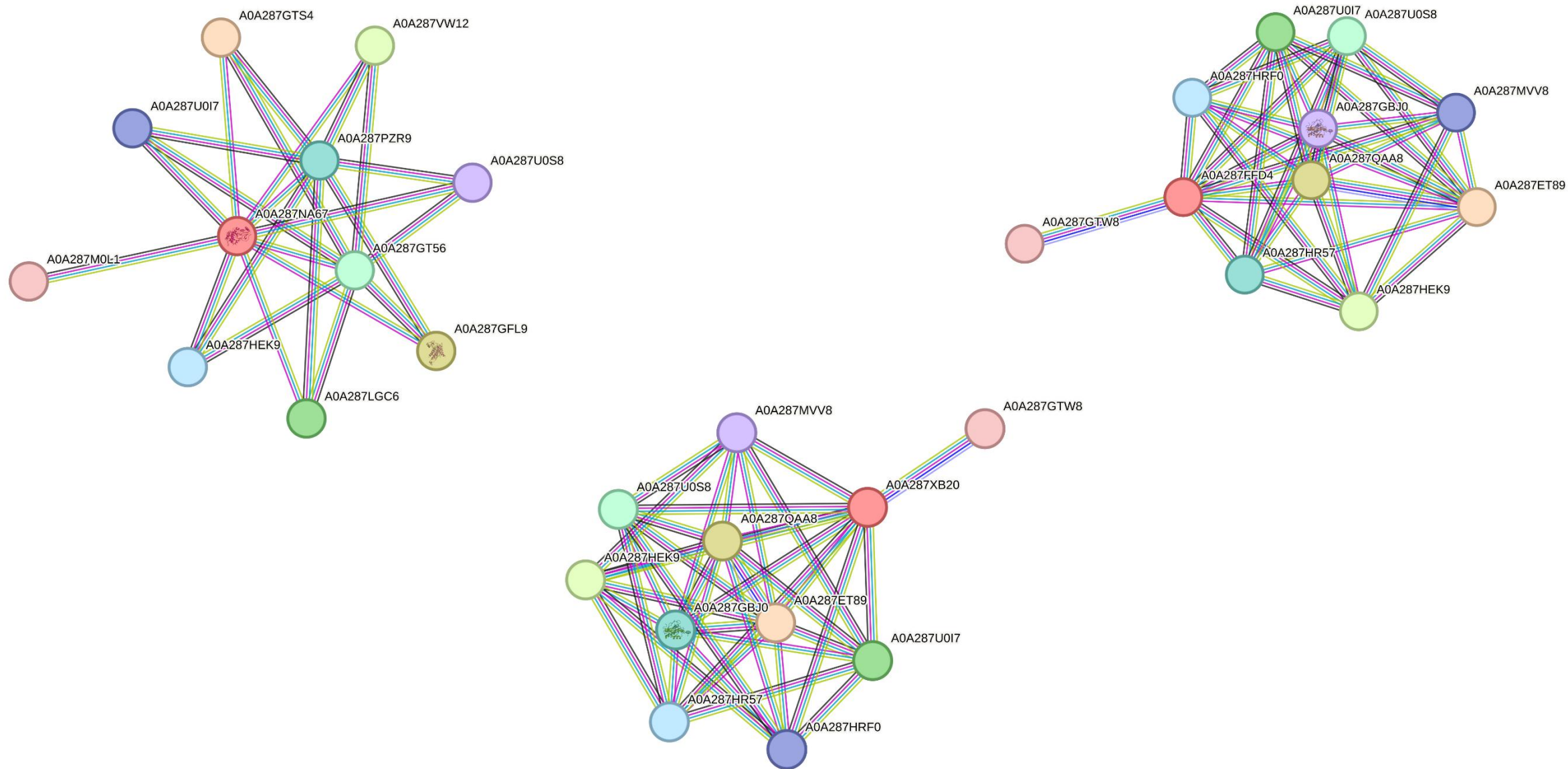


Fig. S112. Protein-protein interaction (PPI) network of HvSnRK clusters

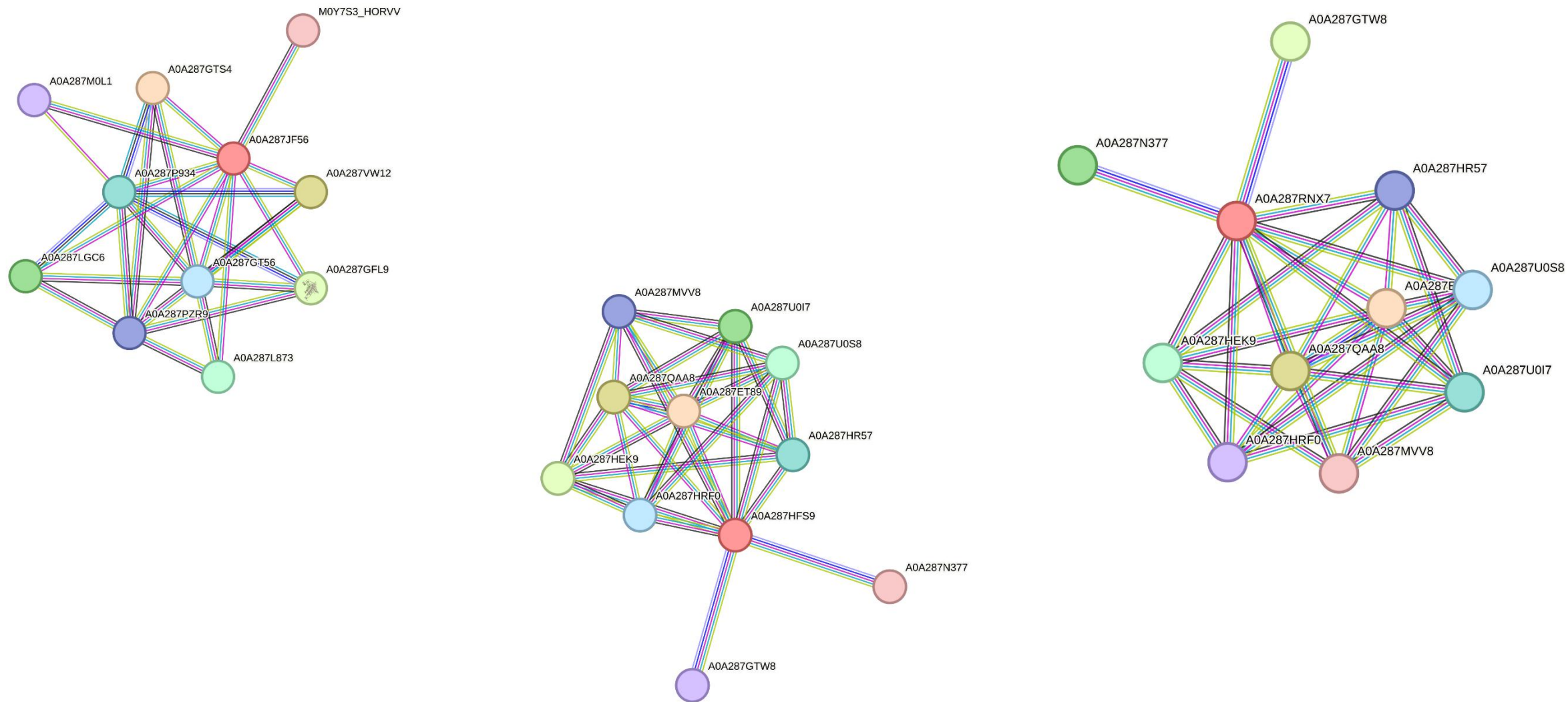


Fig. S113. Protein-protein interaction (PPI) network of HvSnRK clusters

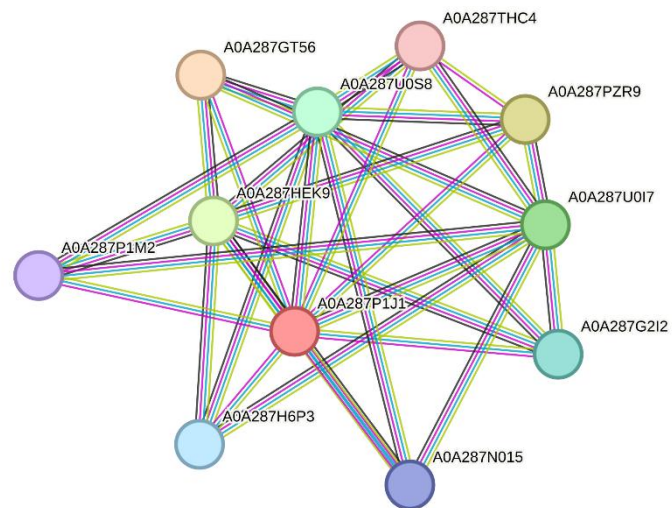
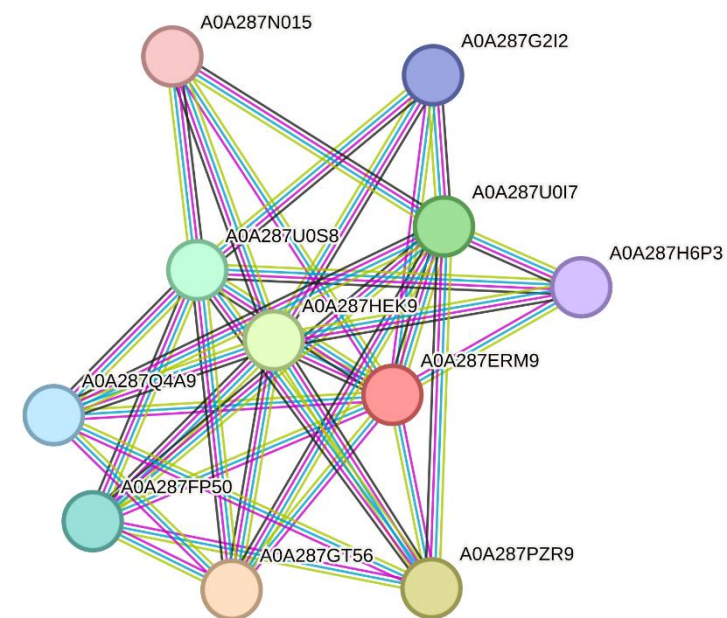
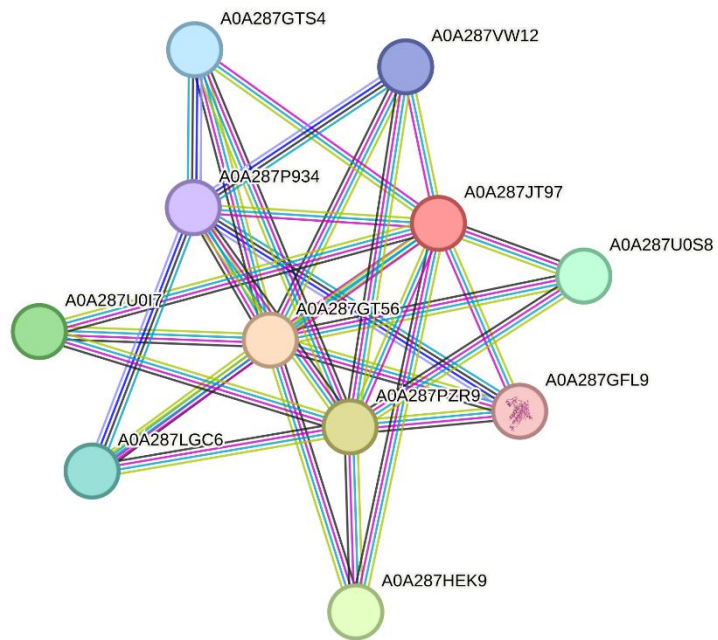


Fig. S114. Protein-protein interaction (PPI) network of HvSnRK clusters

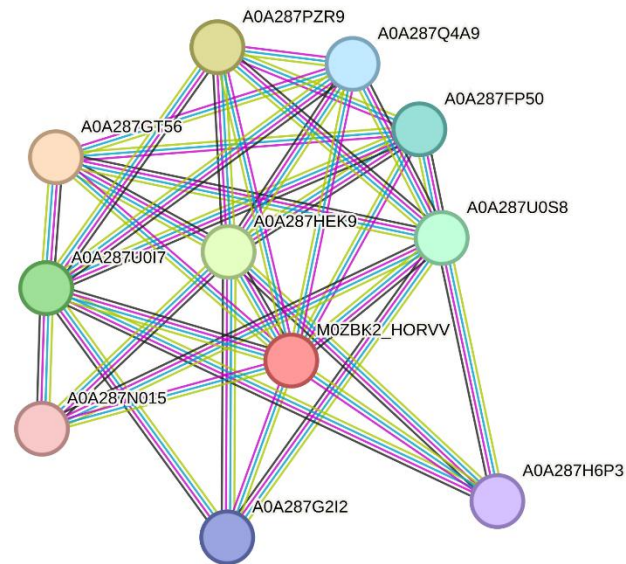
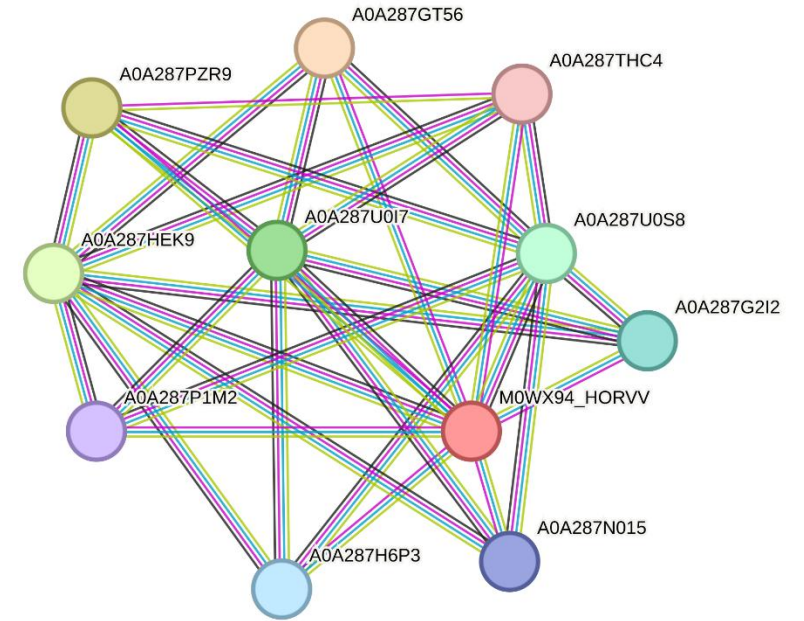
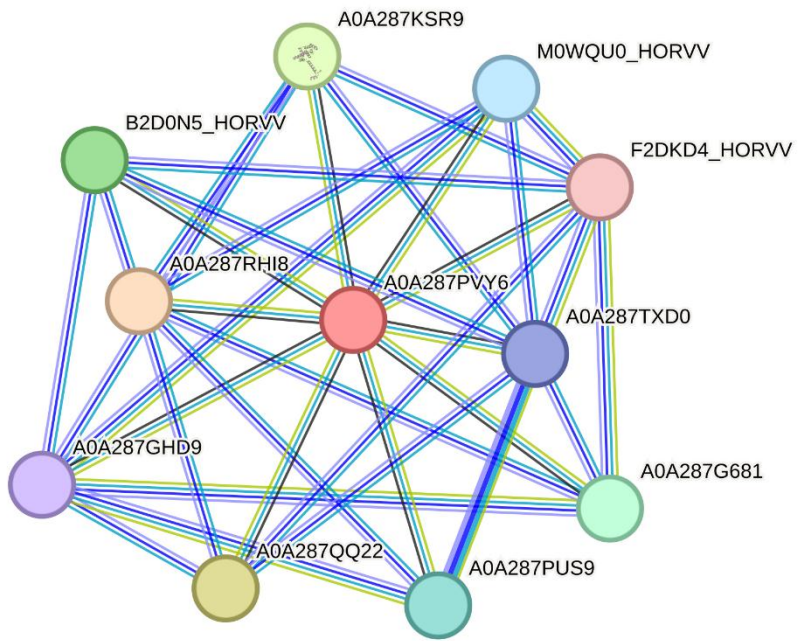


Fig. S115. Protein-protein interaction (PPI) network of HvSnRK clusters

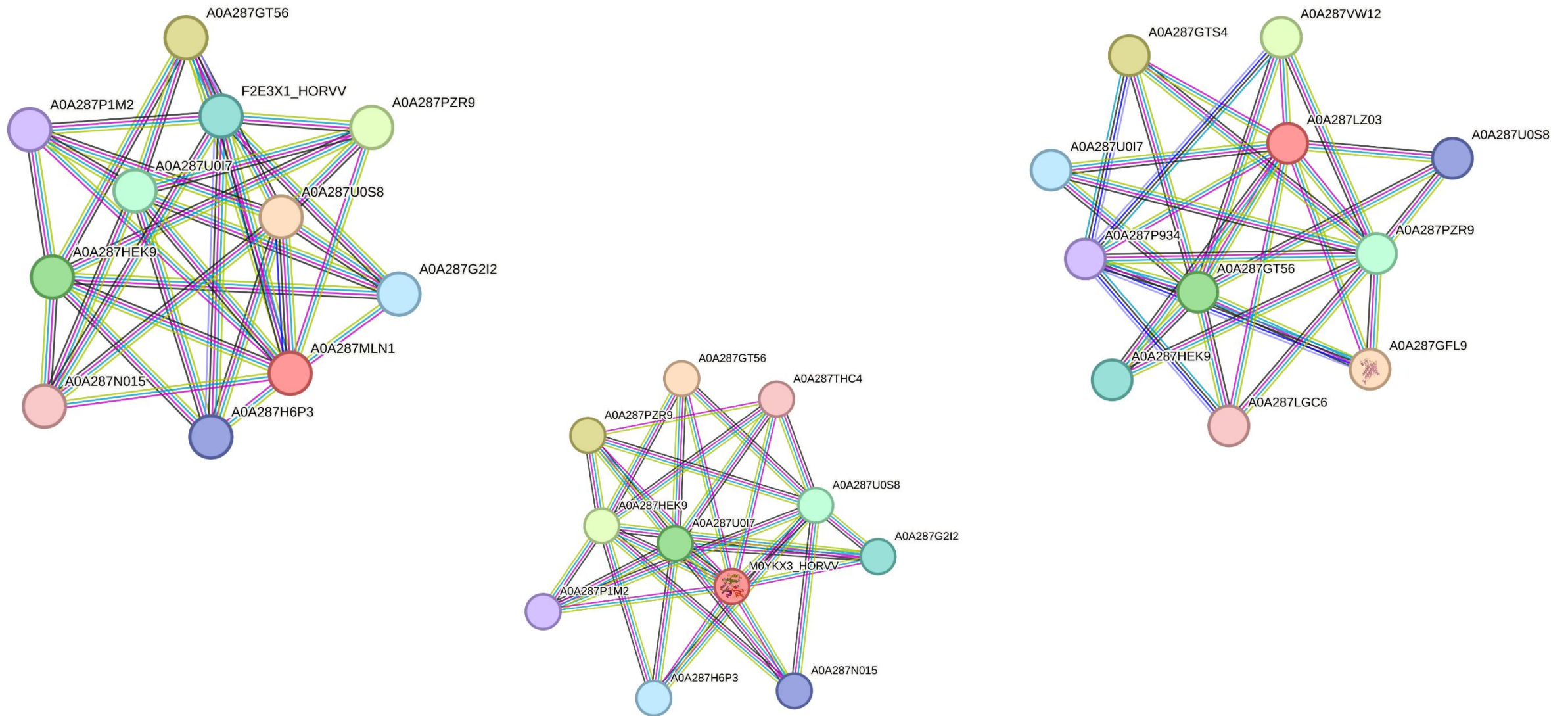


Fig. S116. Protein-protein interaction (PPI) network of HvSnRK clusters

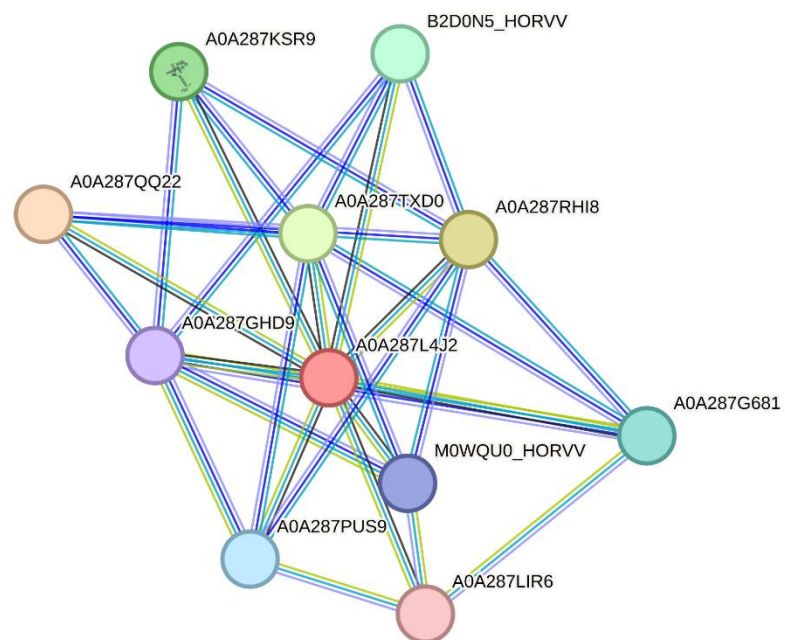
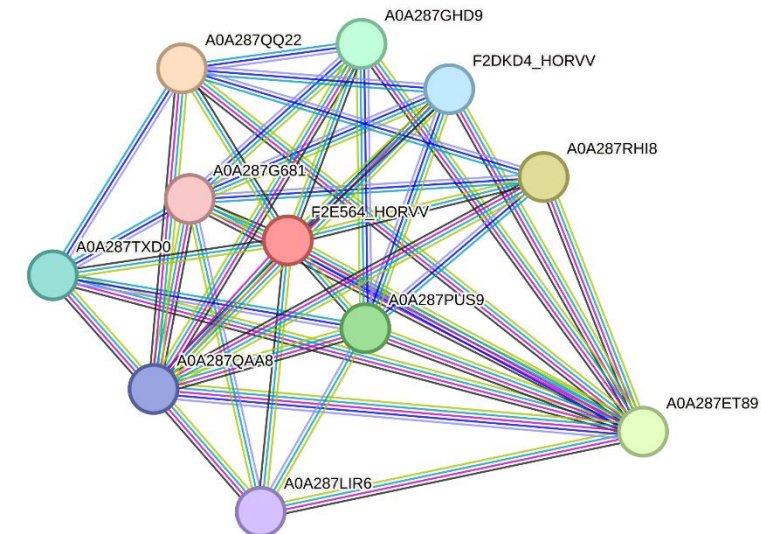
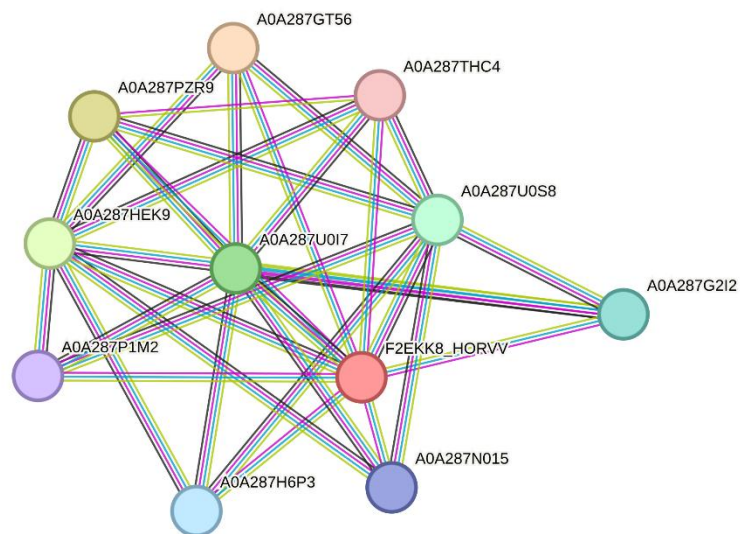


Fig. S117. Protein-protein interaction (PPI) network of HvSnRK clusters

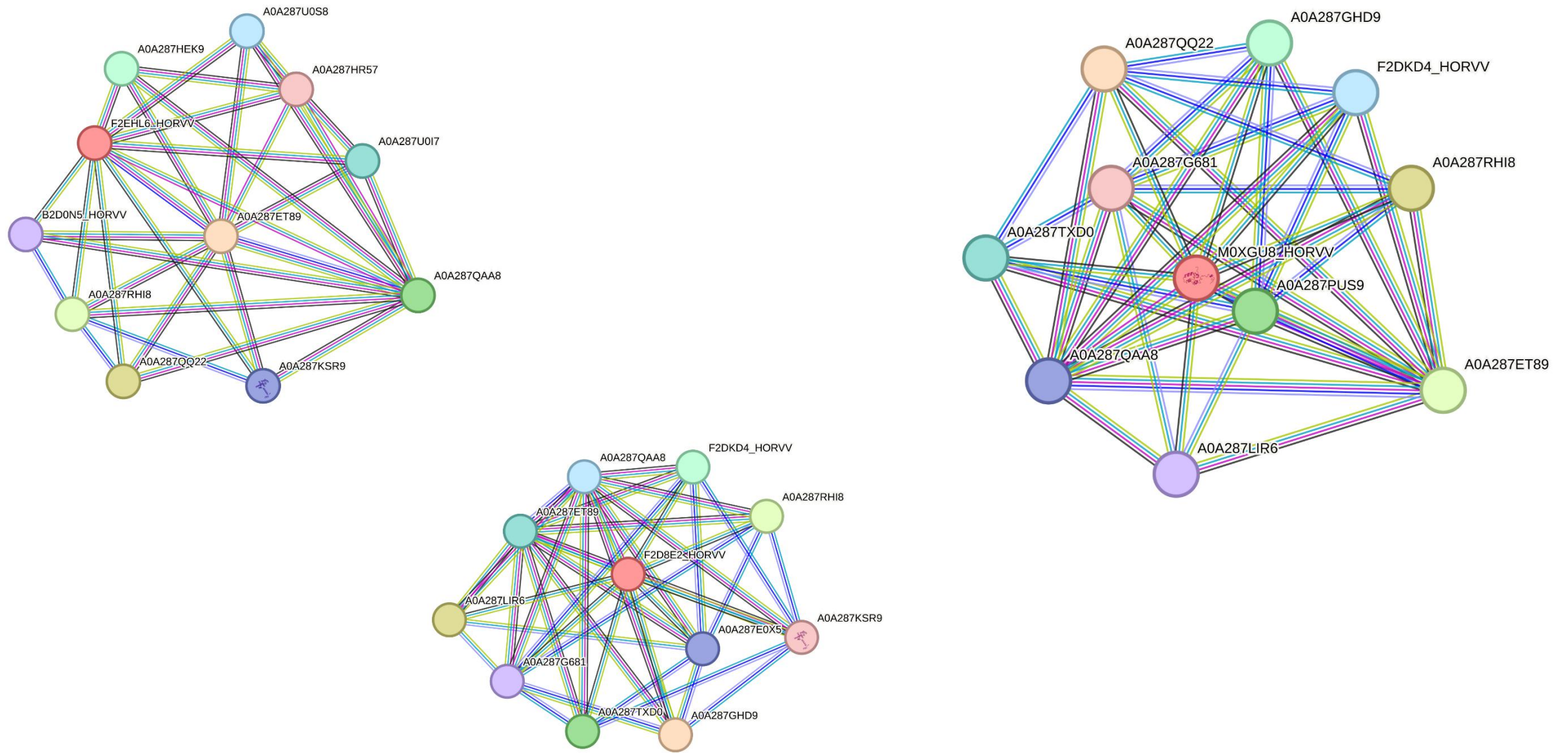


Fig. S118. Protein-protein interaction (PPI) network of HvSnRK clusters

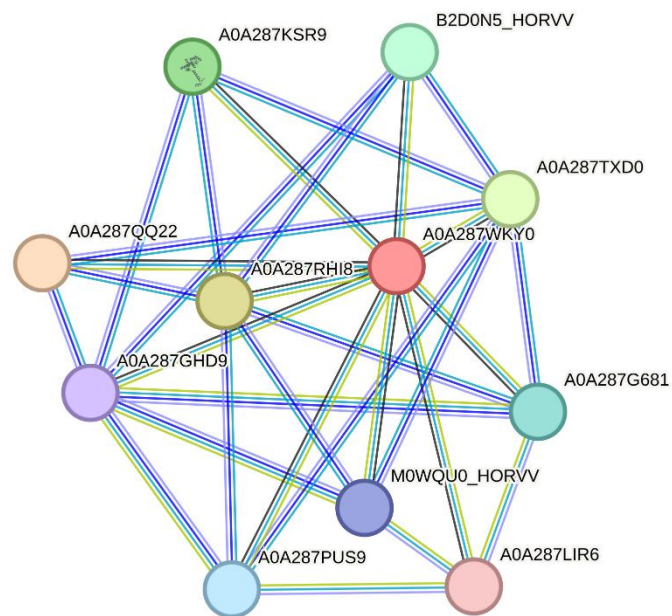
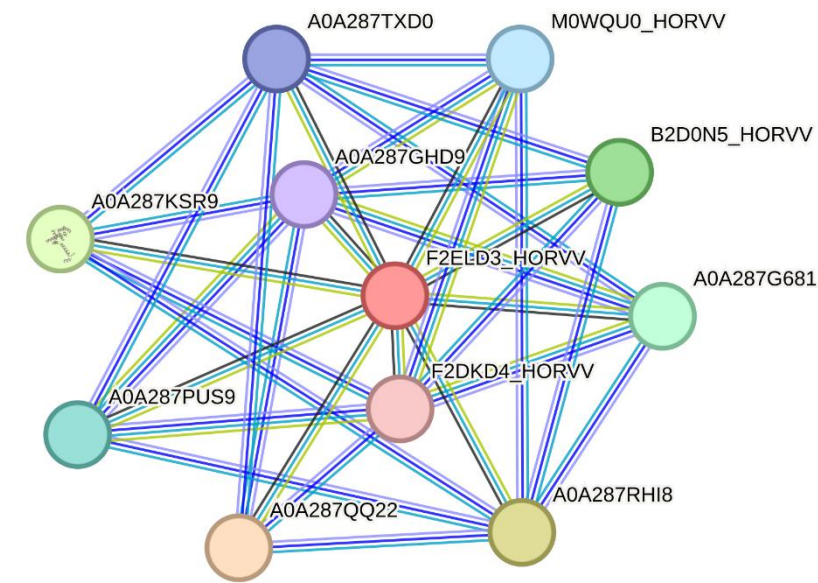
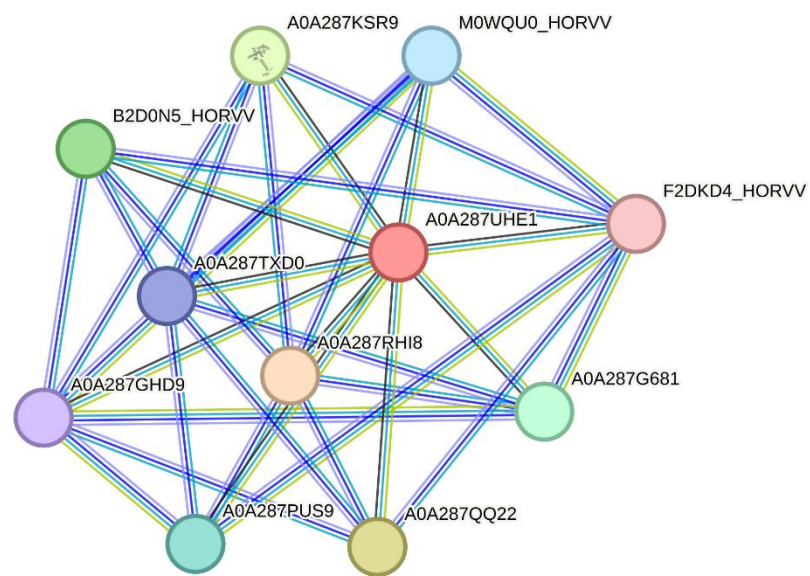


Fig. S119. Protein-protein interaction (PPI) network of HvSnRK clusters

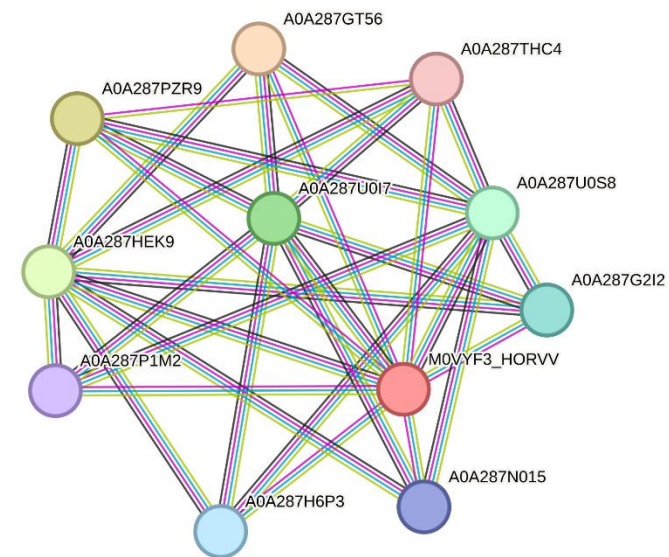
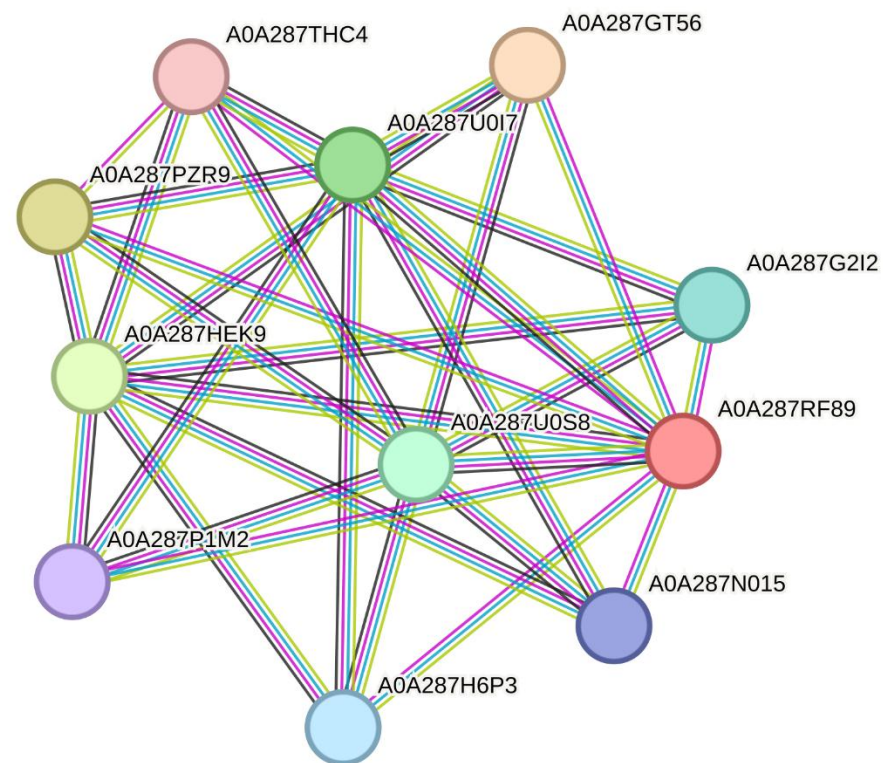
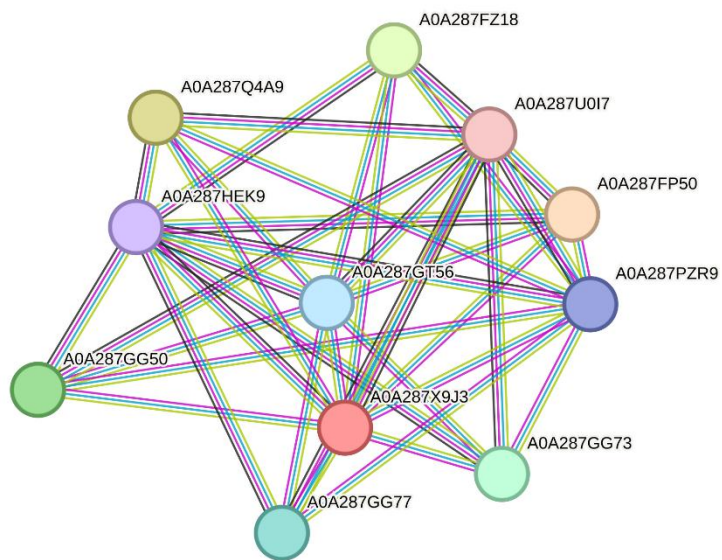


Fig. S120. Protein-protein interaction (PPI) network of HvSnRK clusters

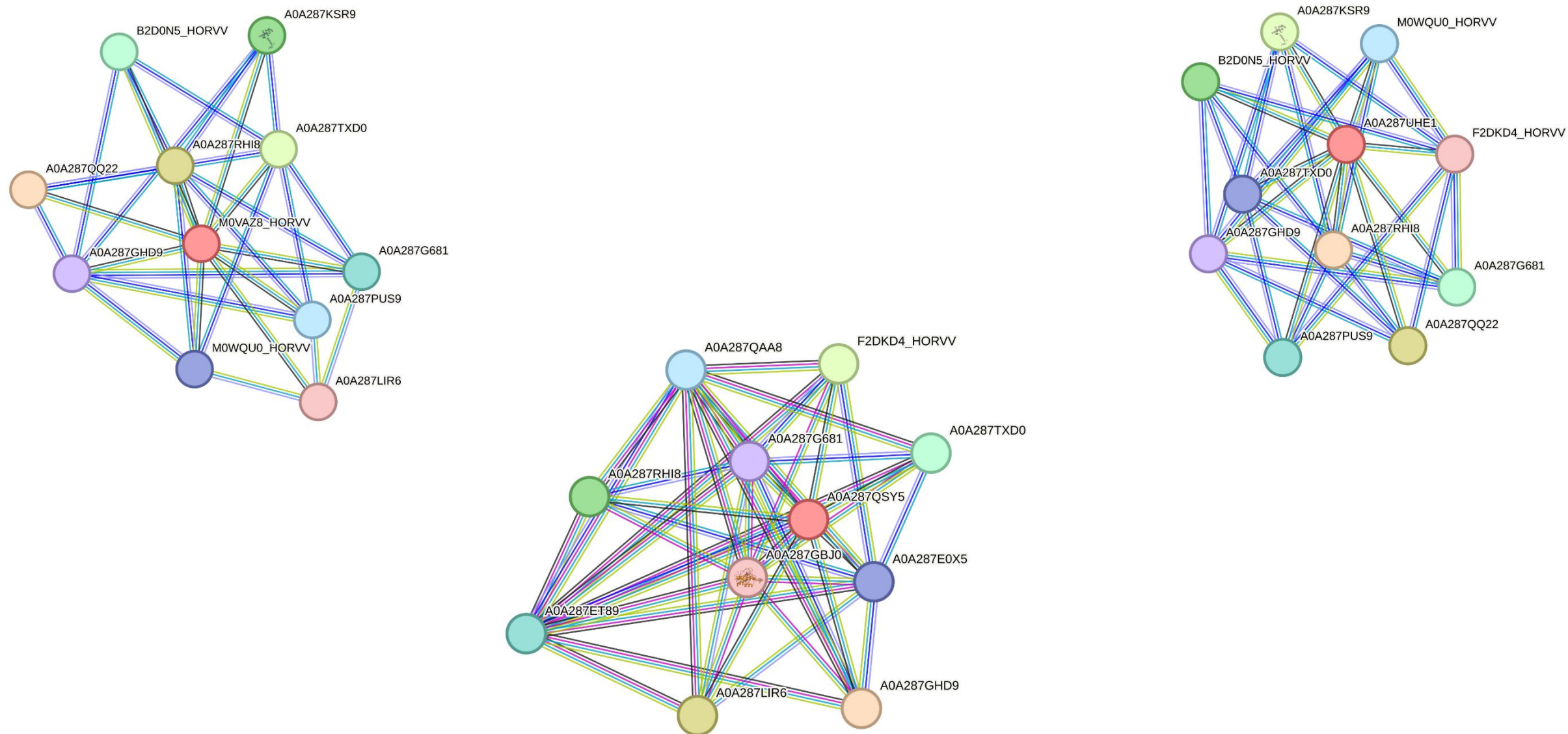


Fig. S121. Protein-protein interaction (PPI) network of HvSnRK clusters

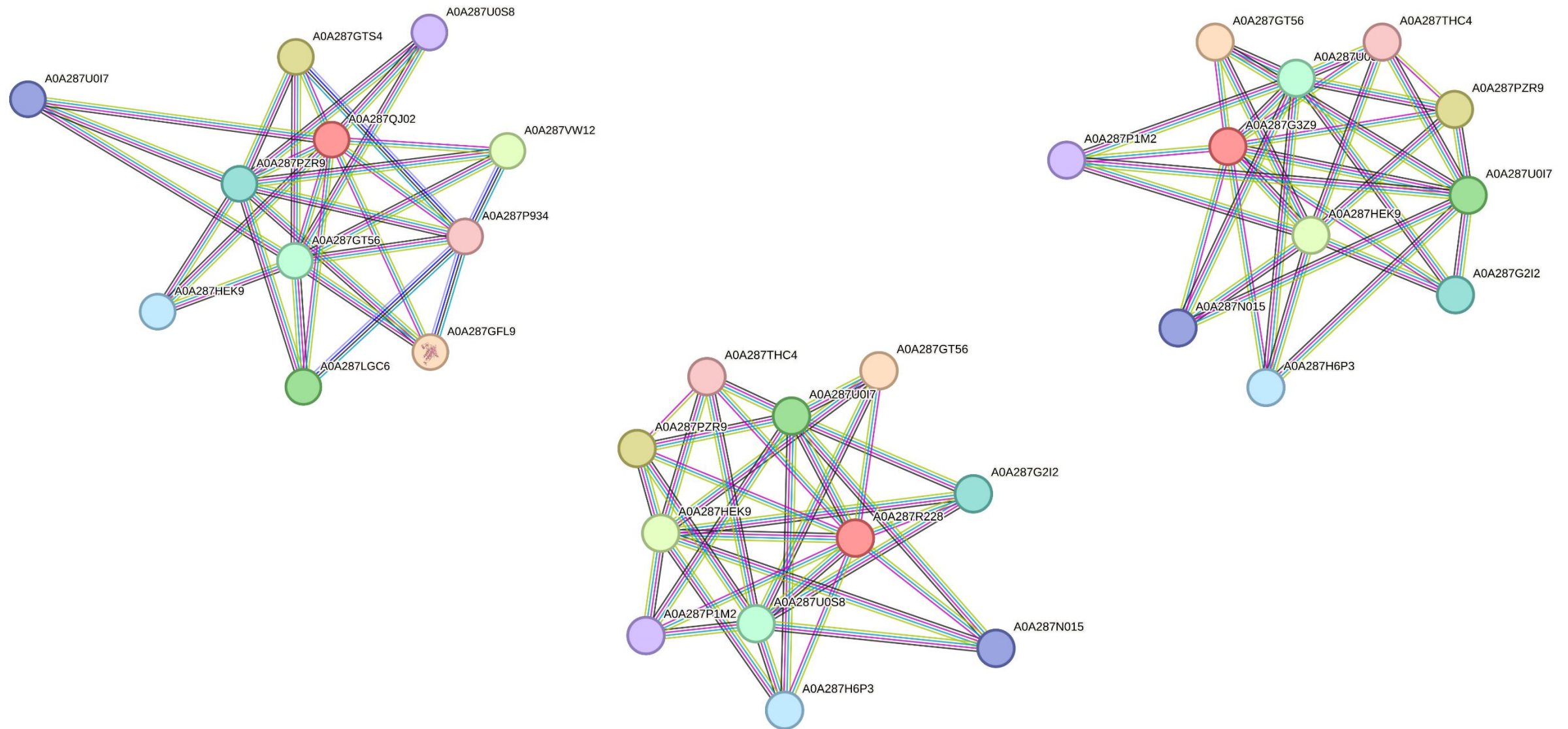


Fig. S122. Protein-protein interaction (PPI) network of HvSnRK clusters

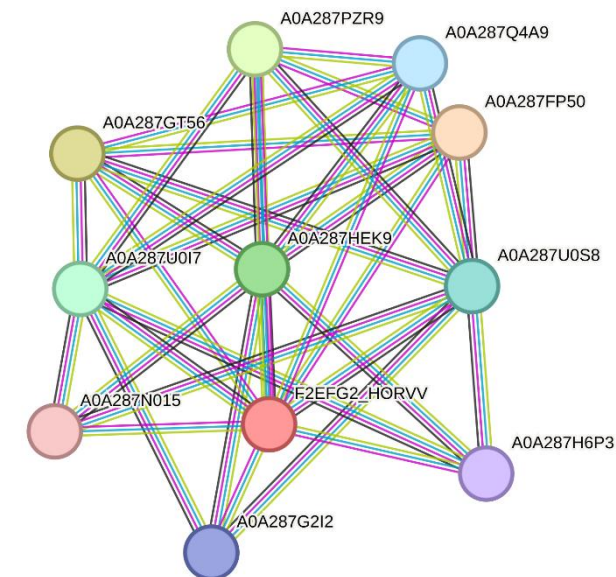
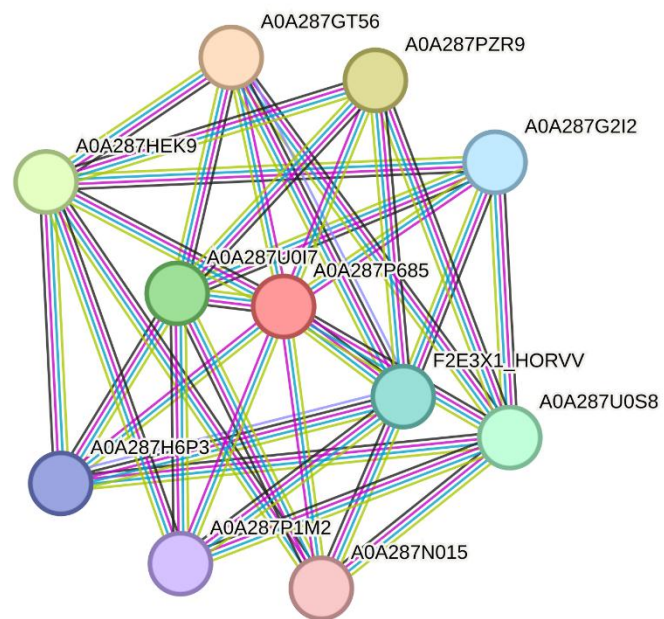
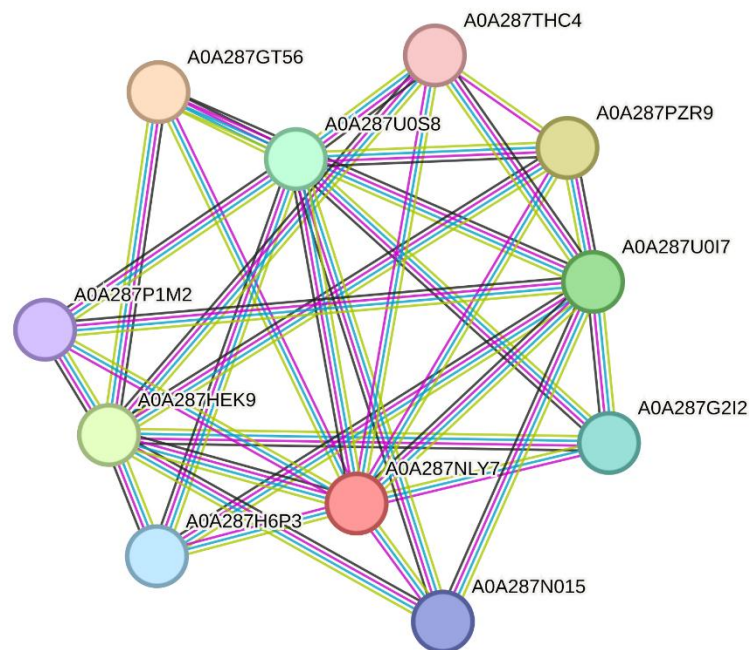


Fig. S123. Protein-protein interaction (PPI) network of HvSnRK clusters

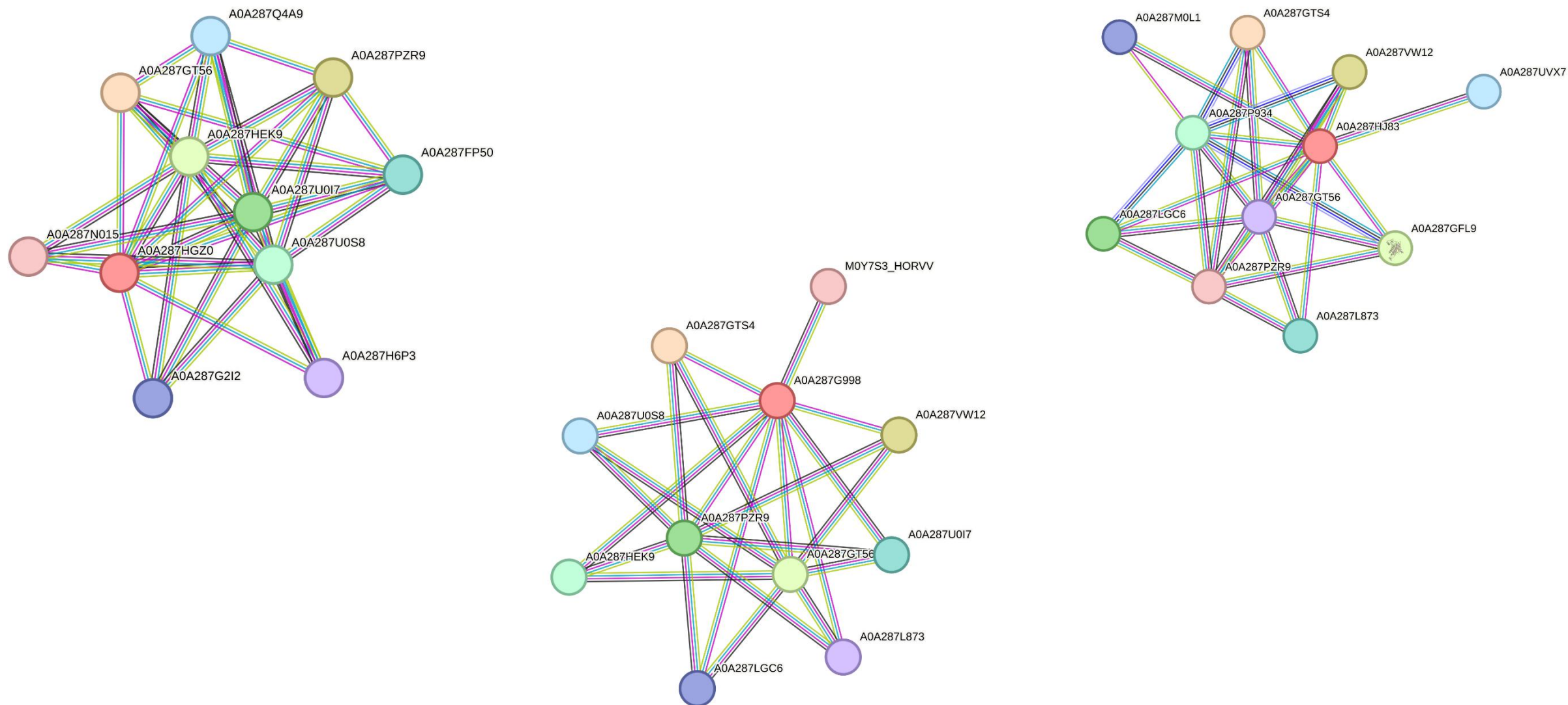


Fig. S124. Protein-protein interaction (PPI) network of HvSnRK clusters

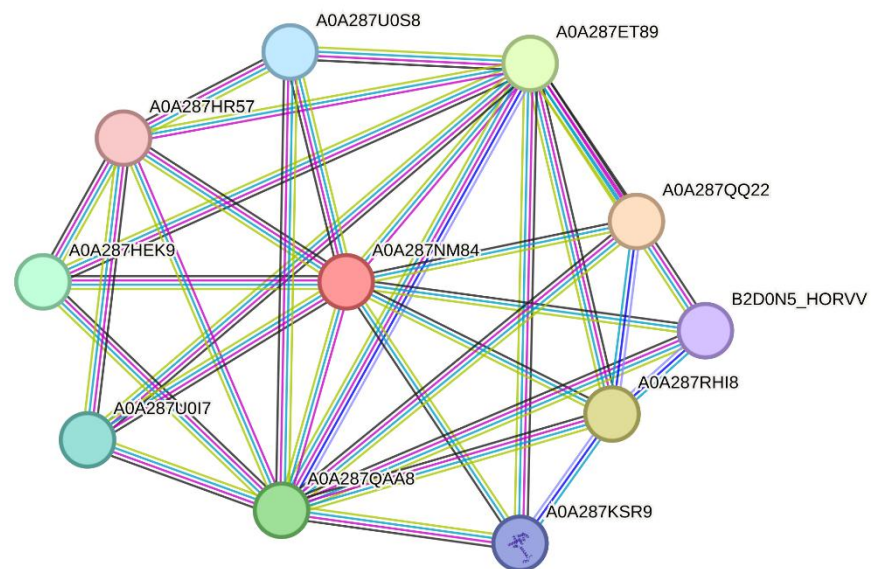
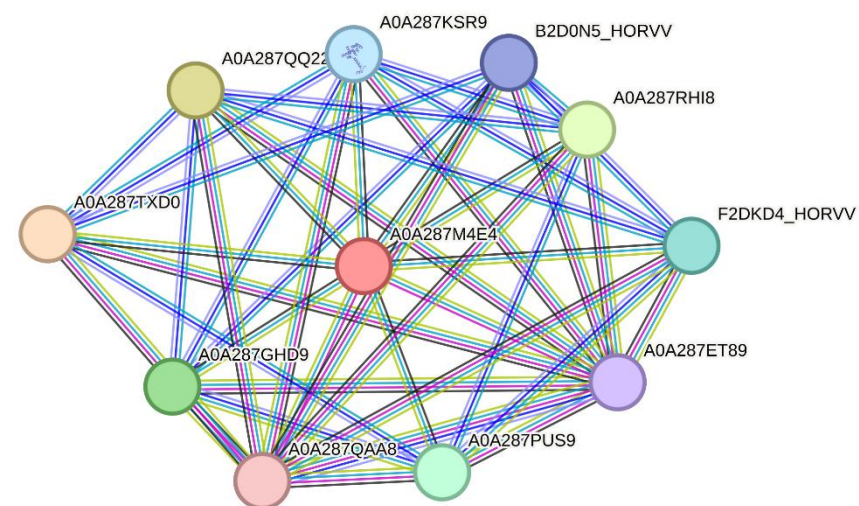
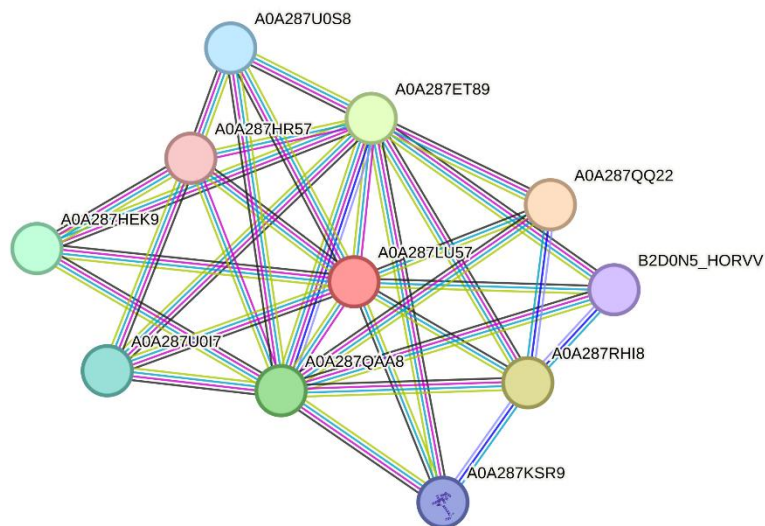


Fig. S125. Protein-protein interaction (PPI) network of HvSnRK clusters

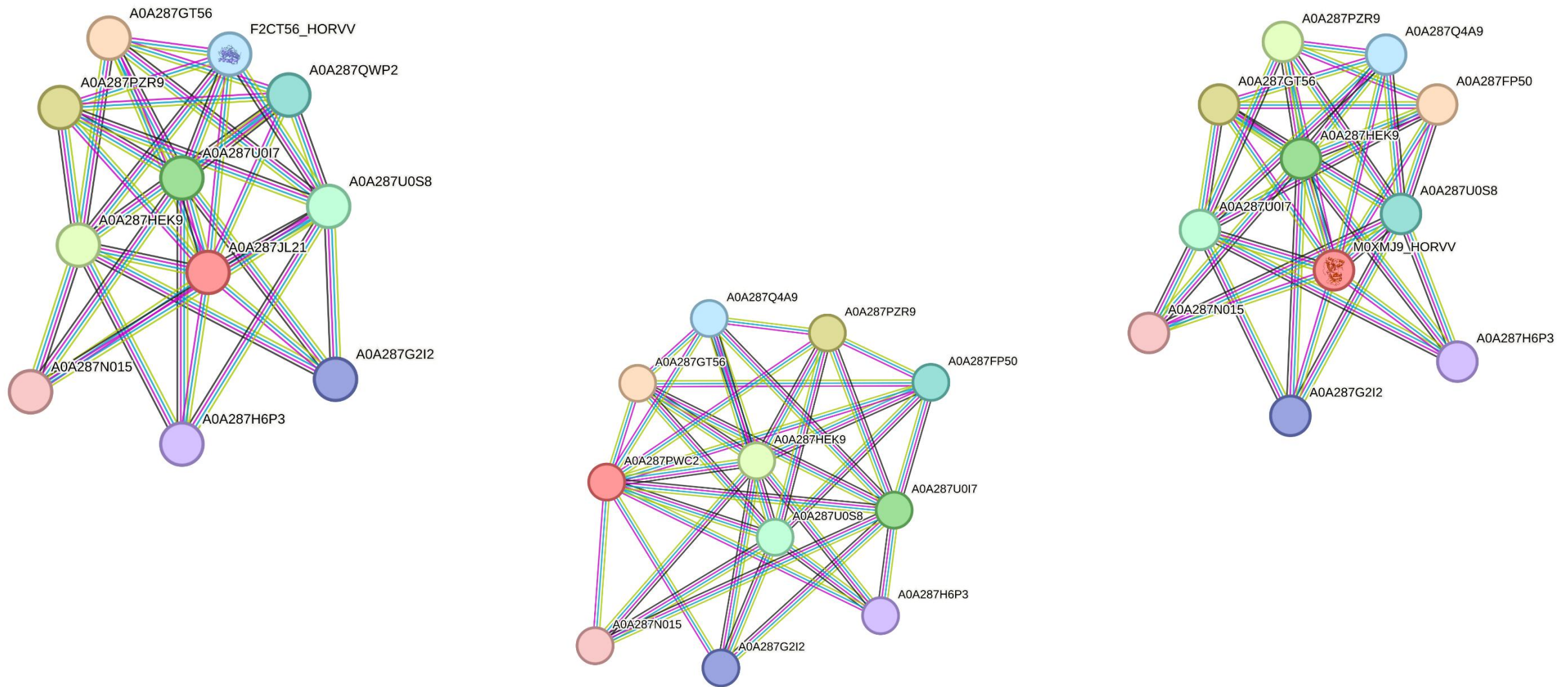


Fig. S126. Protein-protein interaction (PPI) network of HvSnRK clusters

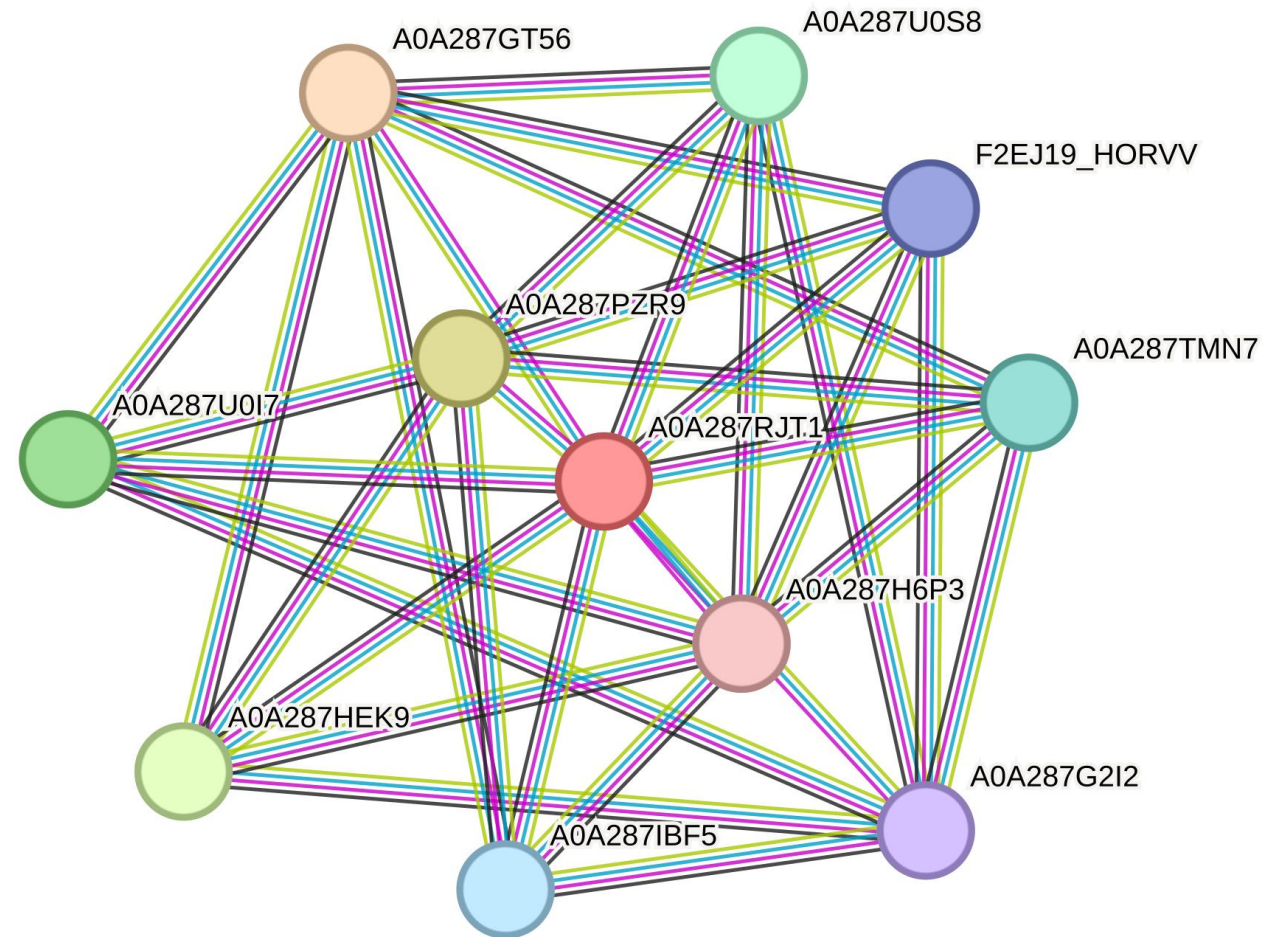
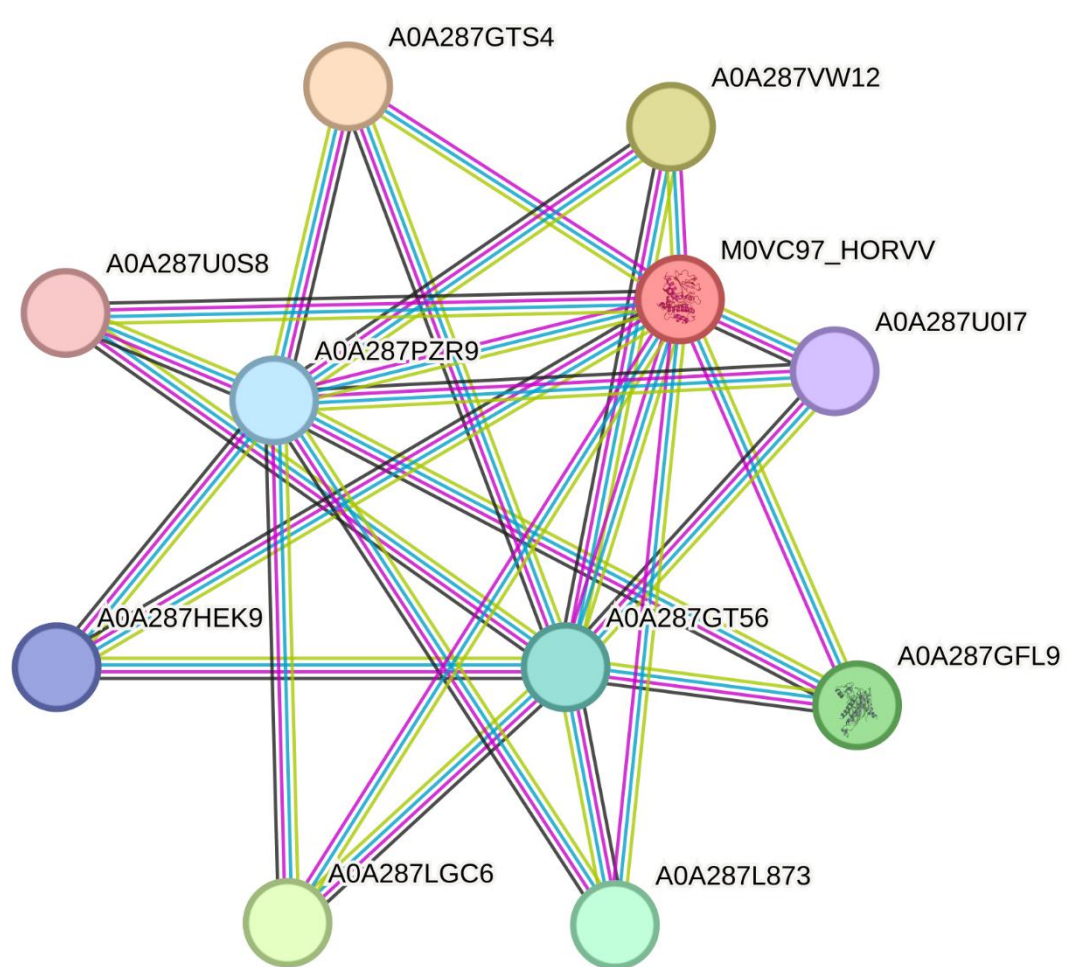


Fig. S127. Protein-protein interaction (PPI) network of HvSnRK clusters

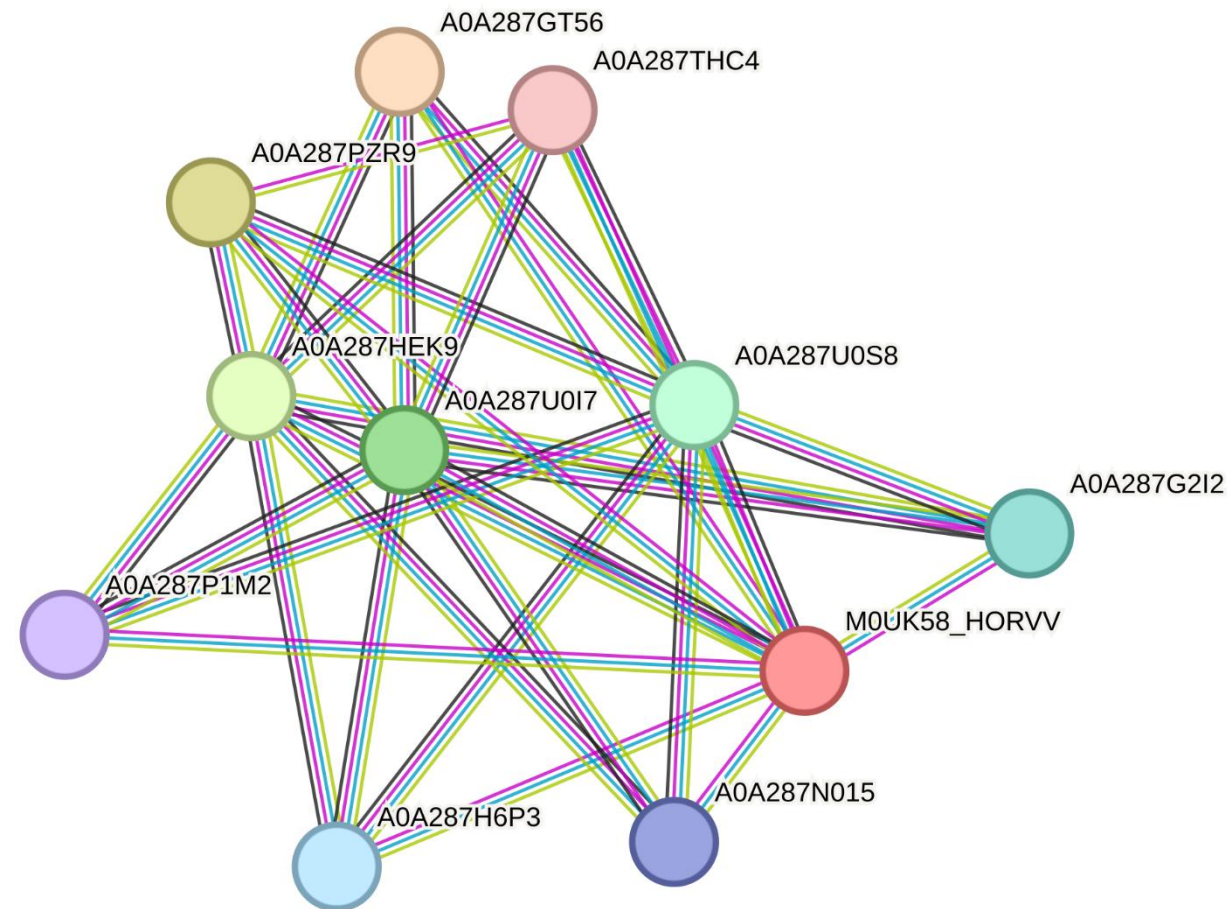
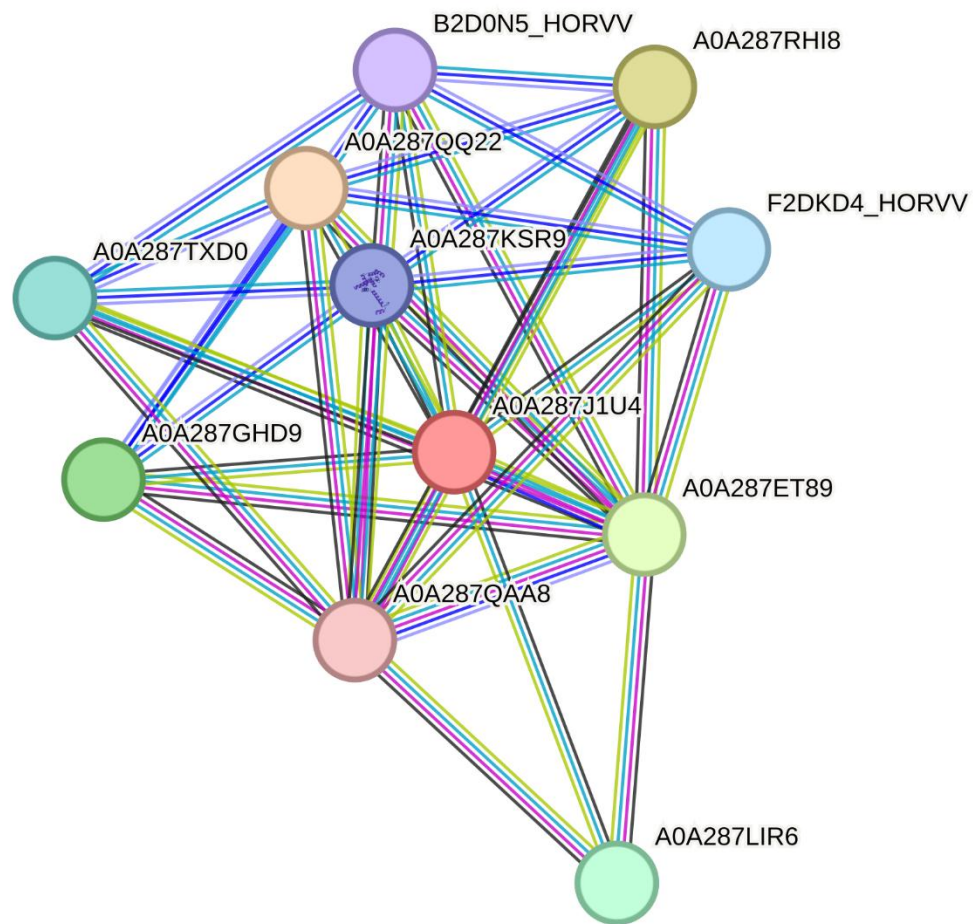


Fig. S128. Protein-protein interaction (PPI) network of HvSnRK clusters

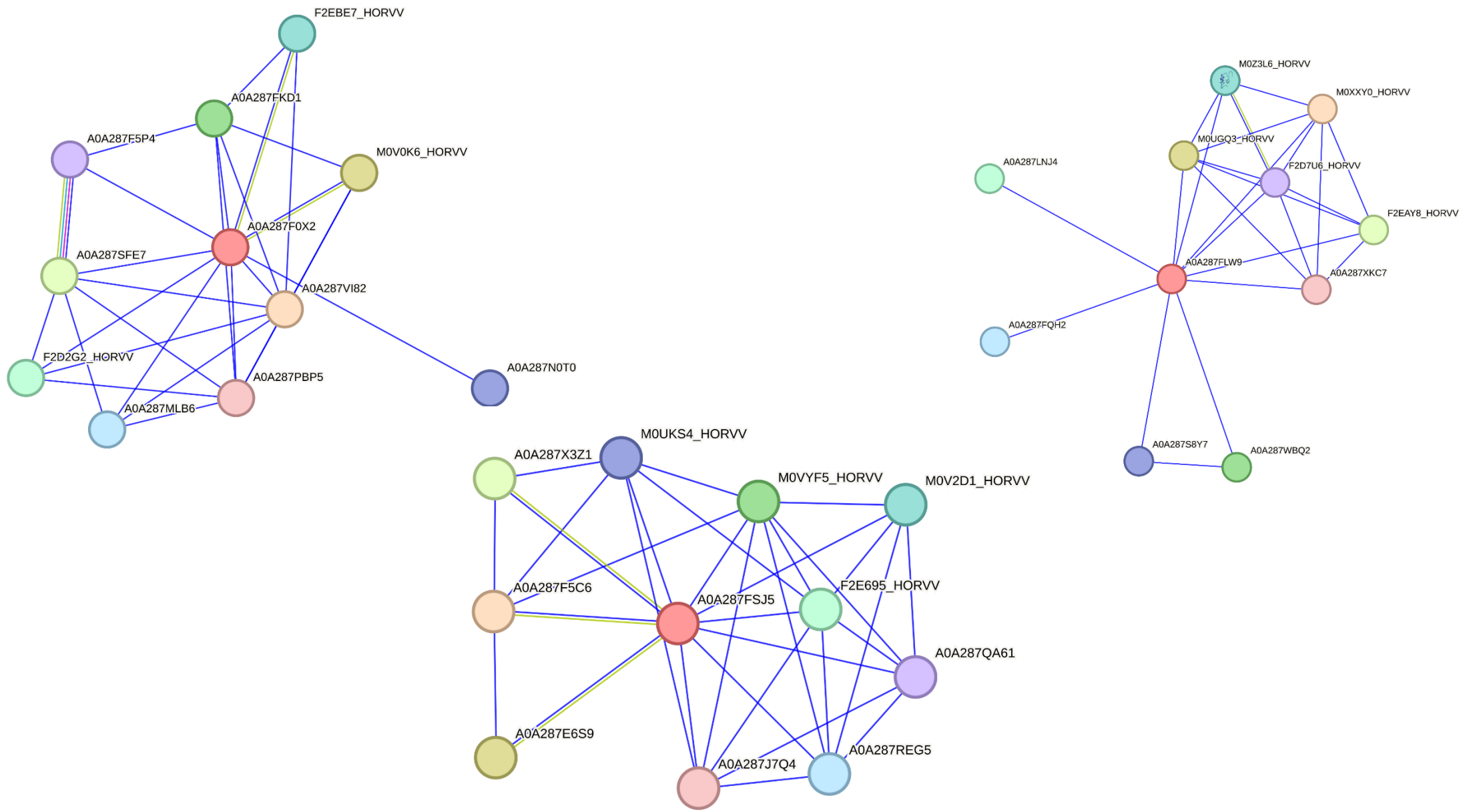


Fig. S129. Protein-protein interaction (PPI) network of HvLEAs clusters

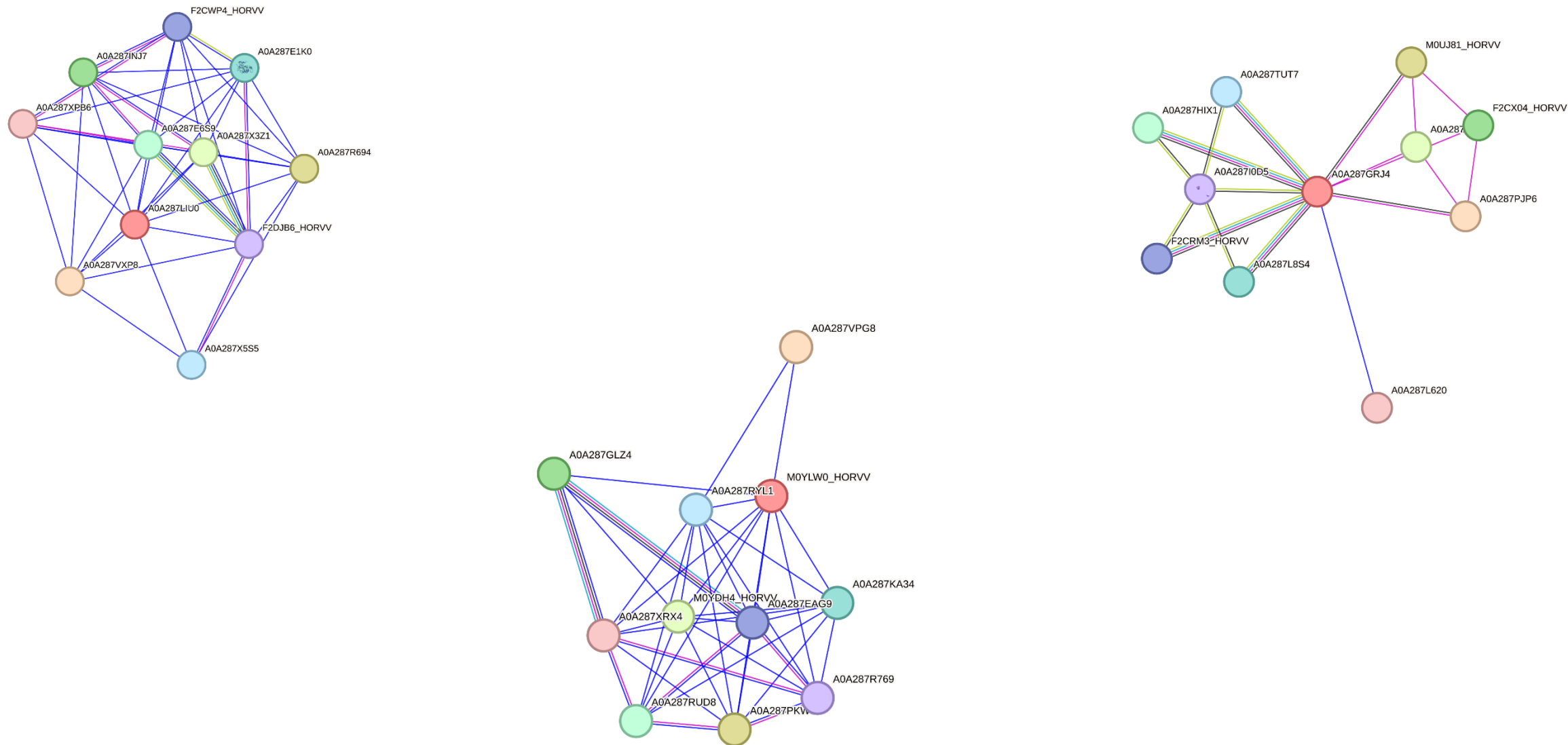


Fig. S130. Protein-protein interaction (PPI) network of HvLEAs clusters

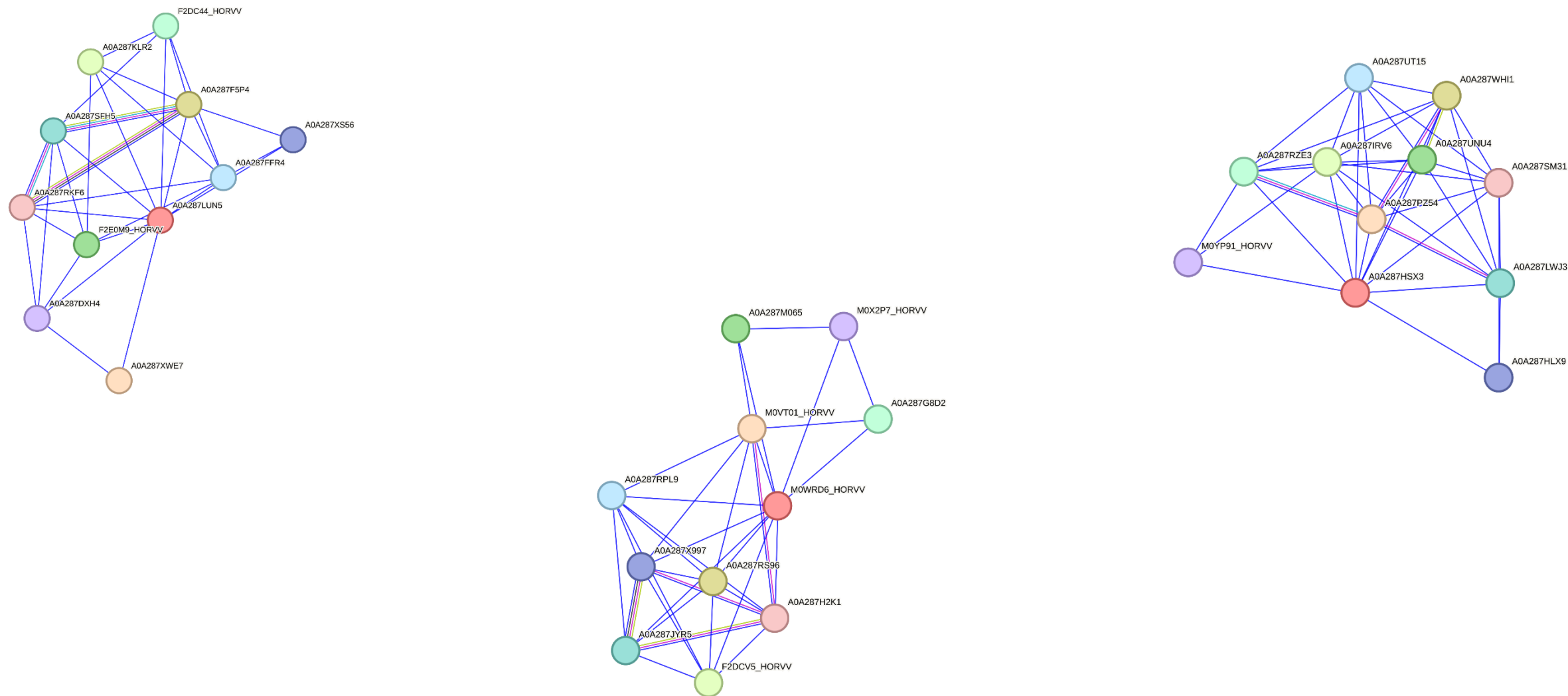


Fig. S131. Protein-protein interaction (PPI) network of HvLEAs clusters

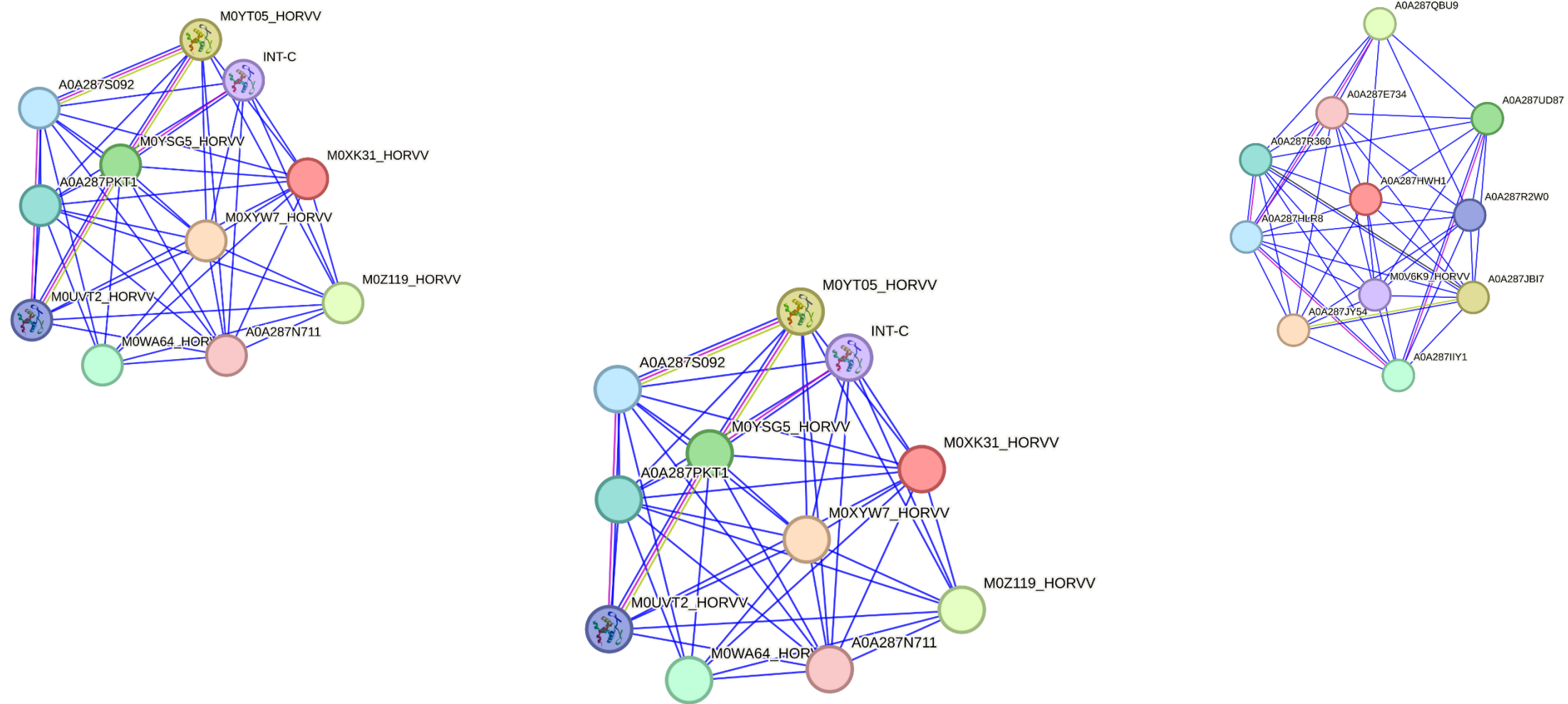


Fig. S132. Protein-protein interaction (PPI) network of HvLEAs clusters

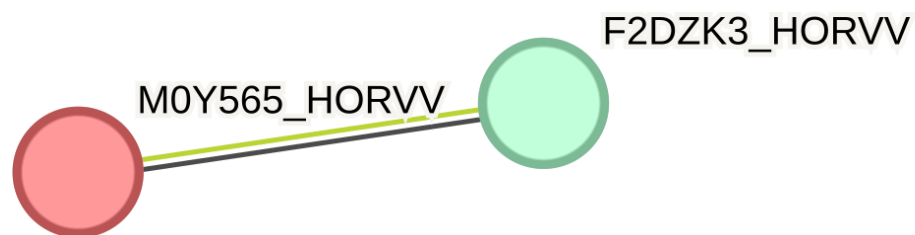
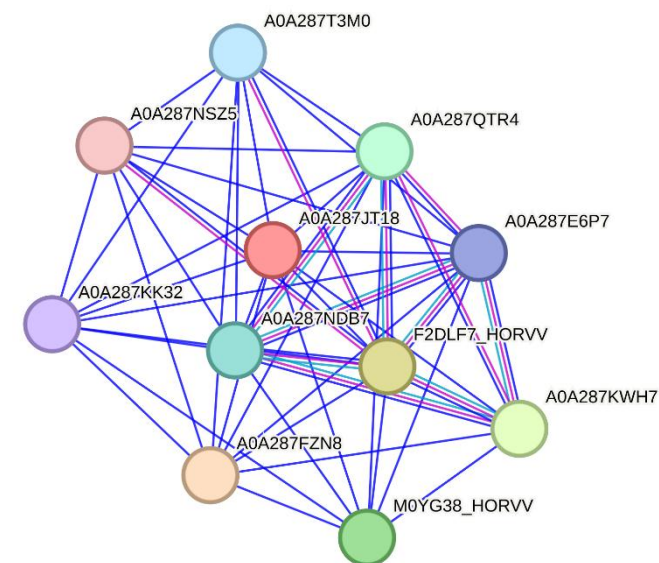
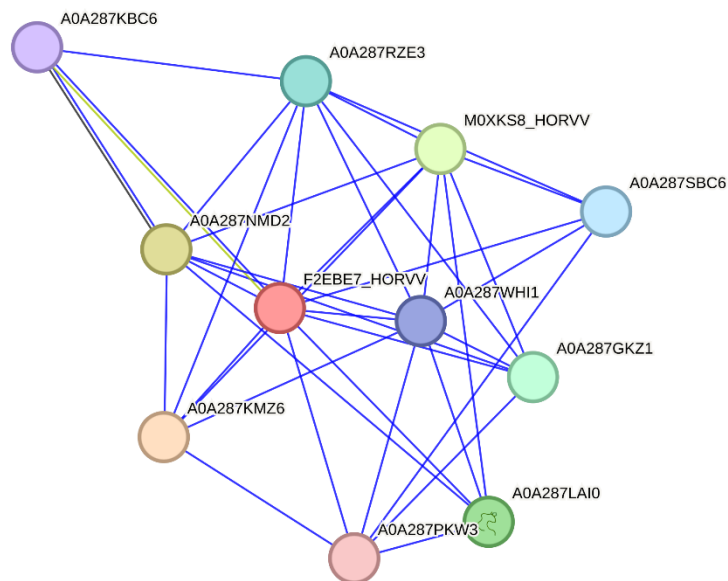


Fig. S133. Protein-protein interaction (PPI) network of HvLEAs clusters

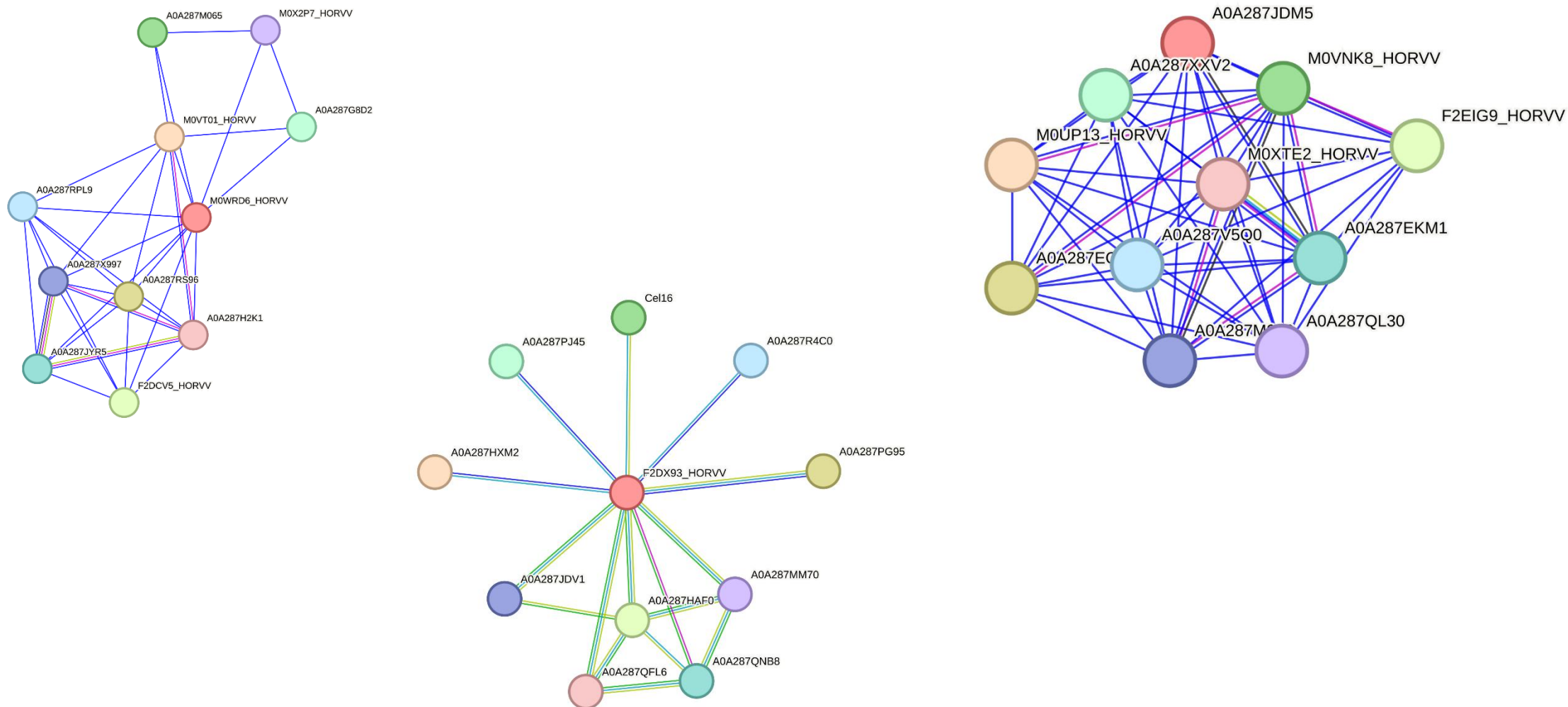


Fig. S134. Protein-protein interaction (PPI) network of HvLEAs clusters

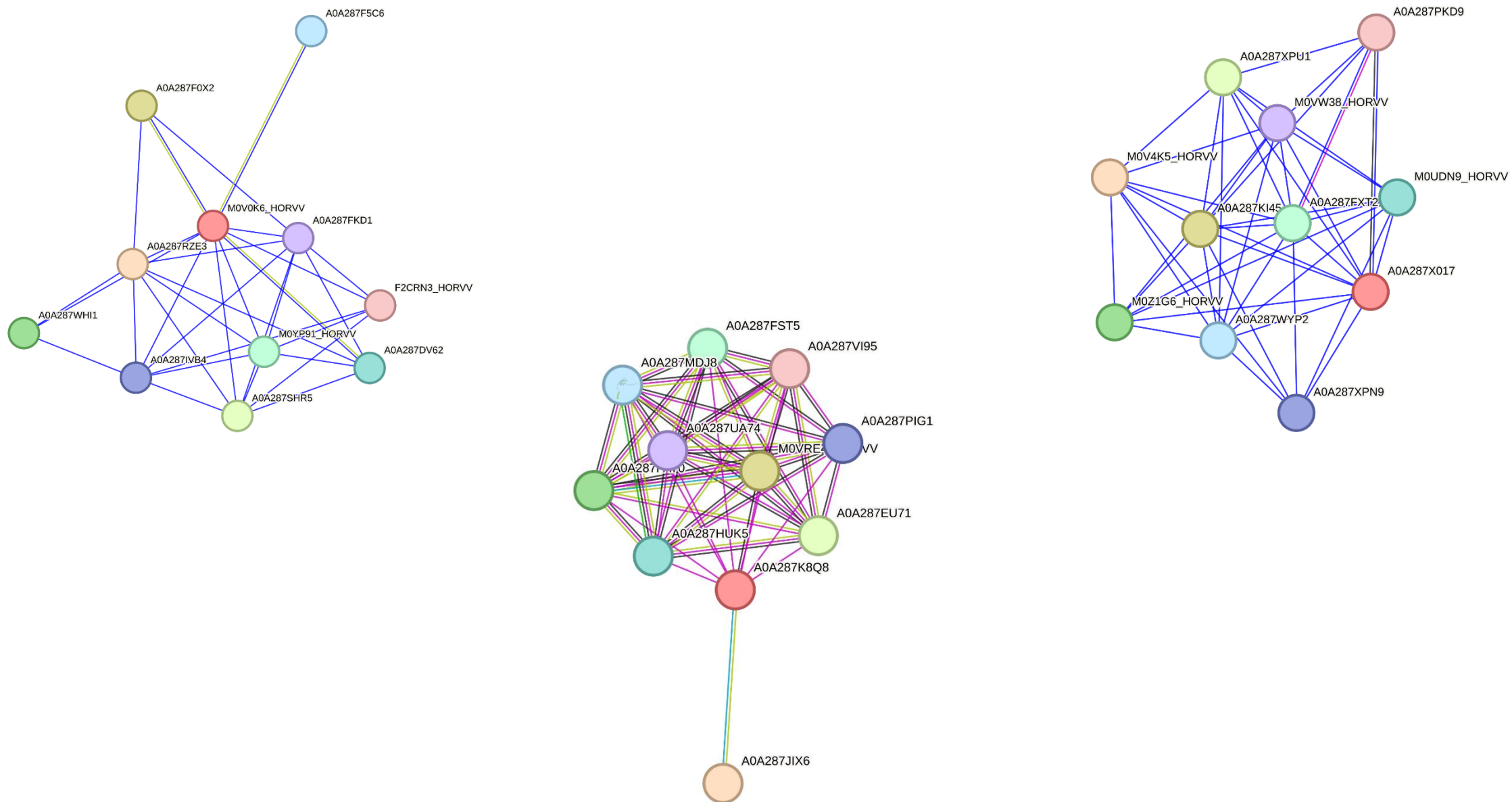


Fig. S135. Protein-protein interaction (PPI) network of HvLEAs clusters

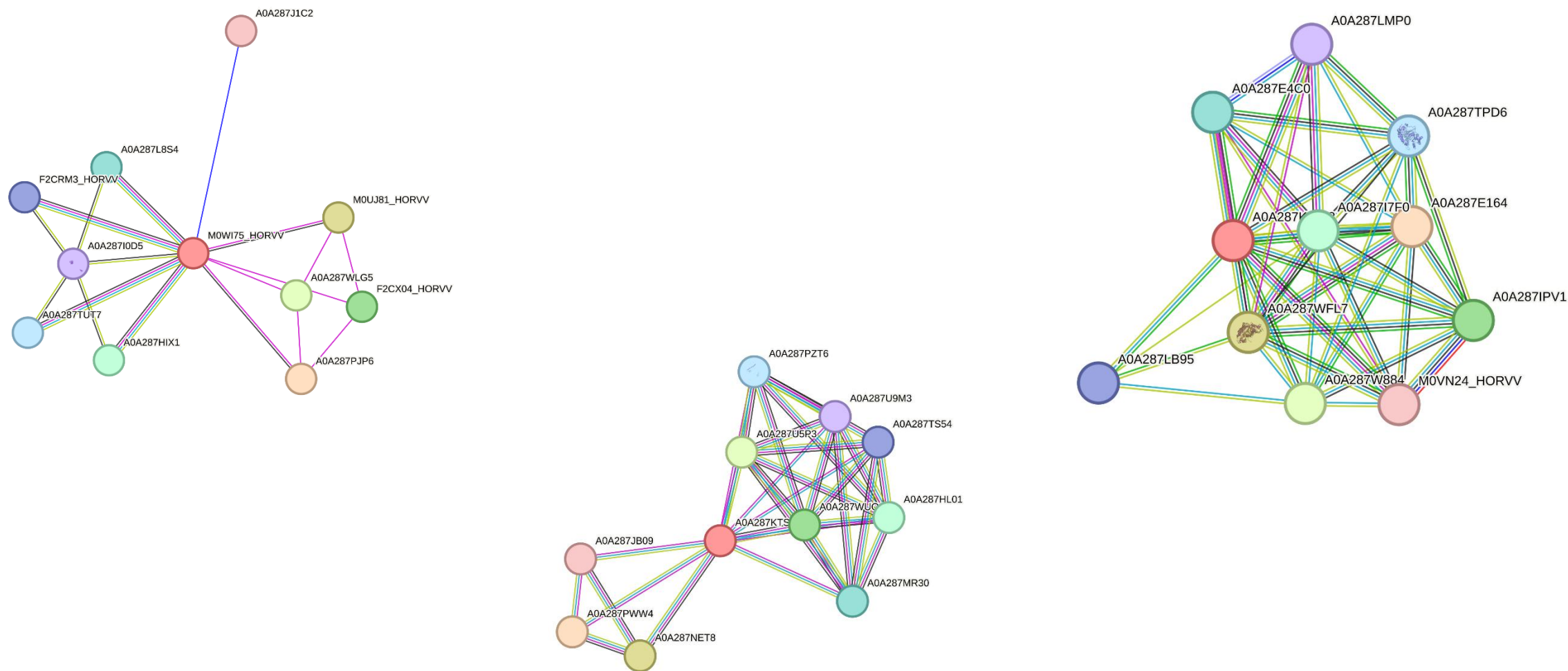


Fig. S136. Protein-protein interaction (PPI) network of HvLEAs clusters

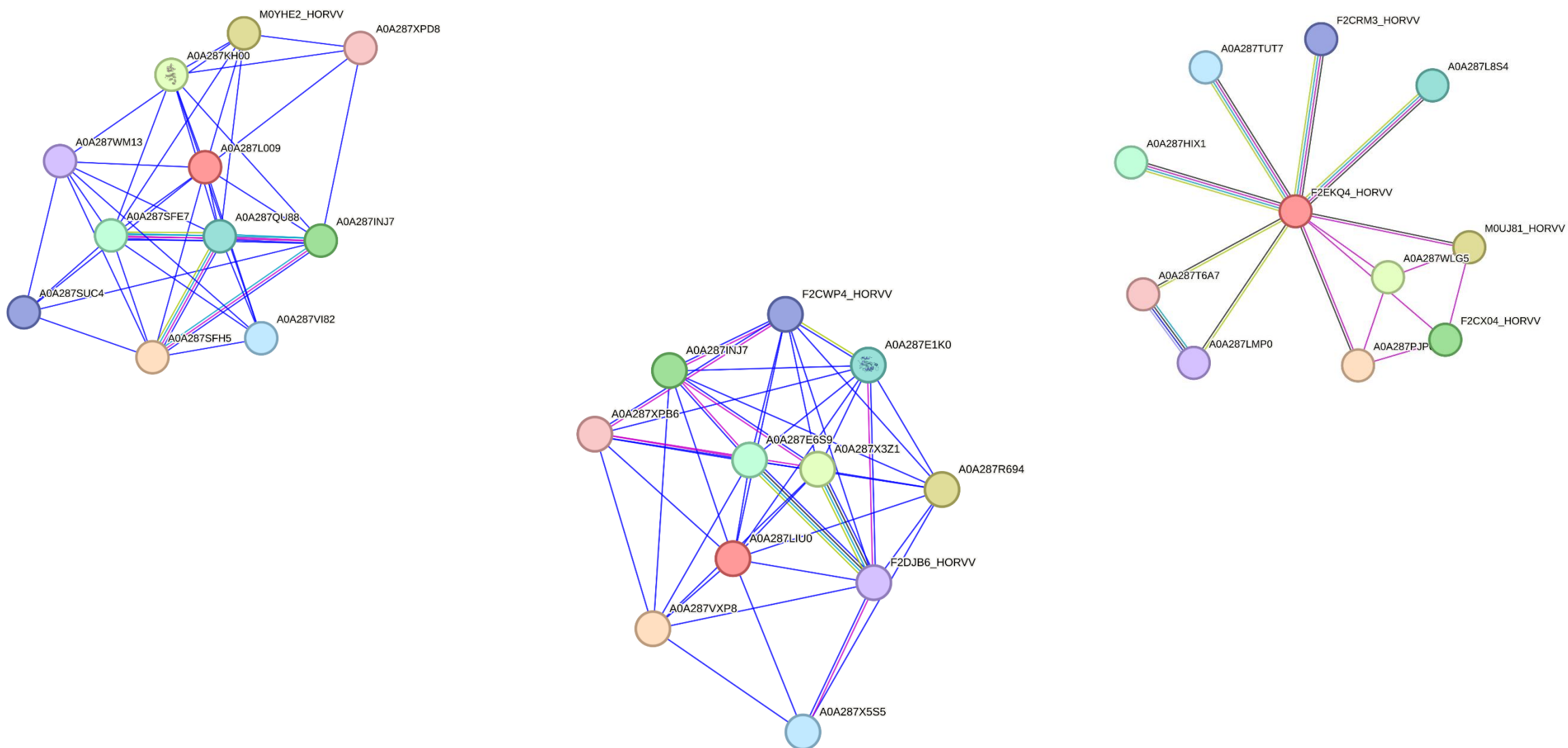


Fig. S137. Protein-protein interaction (PPI) network of HvLEAs clusters

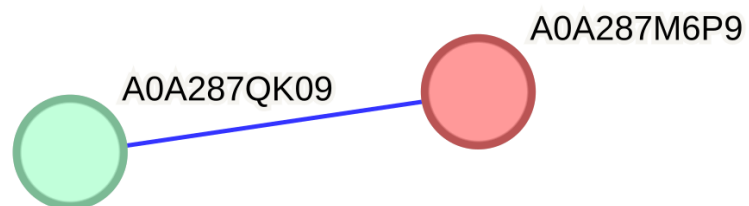
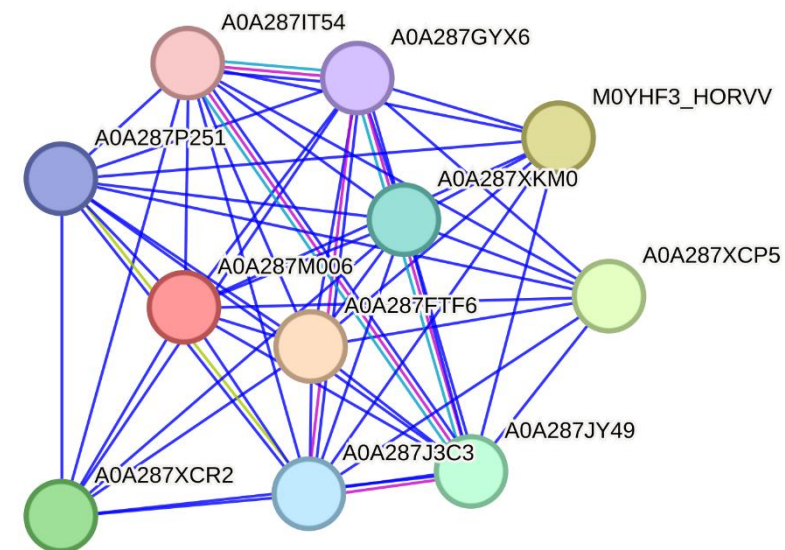
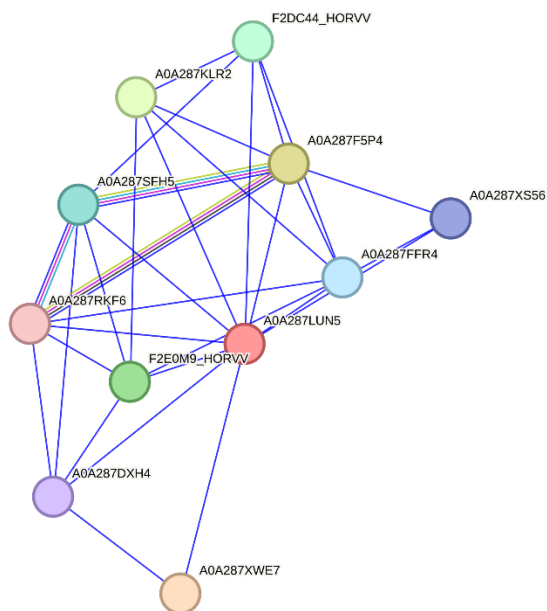


Fig. S138. Protein-protein interaction (PPI) network of HvLEAs clusters

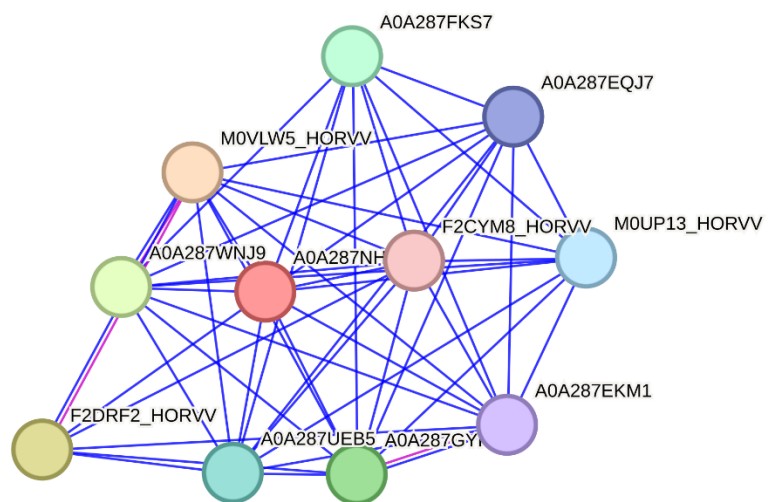
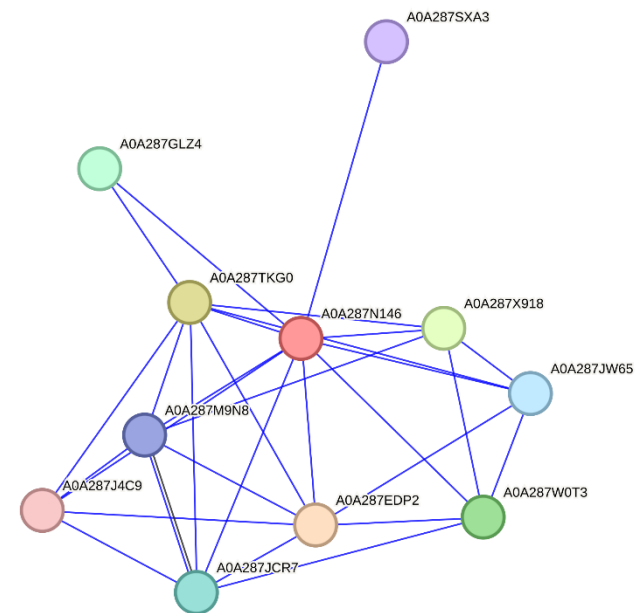
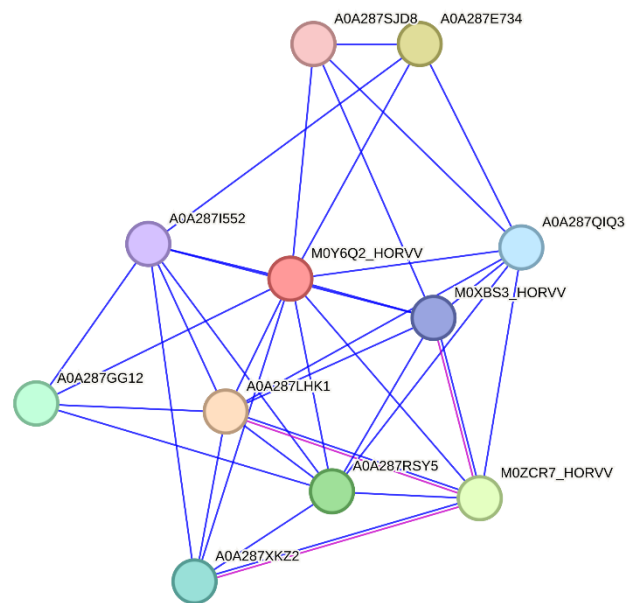


Fig. S139. Protein-protein interaction (PPI) network of HvLEAs clusters

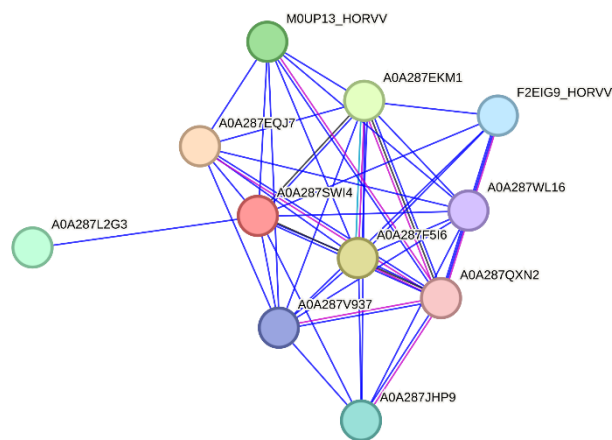
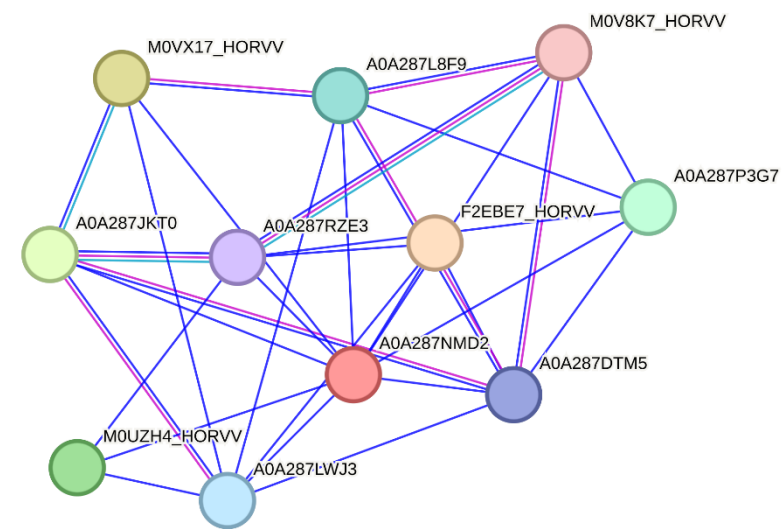
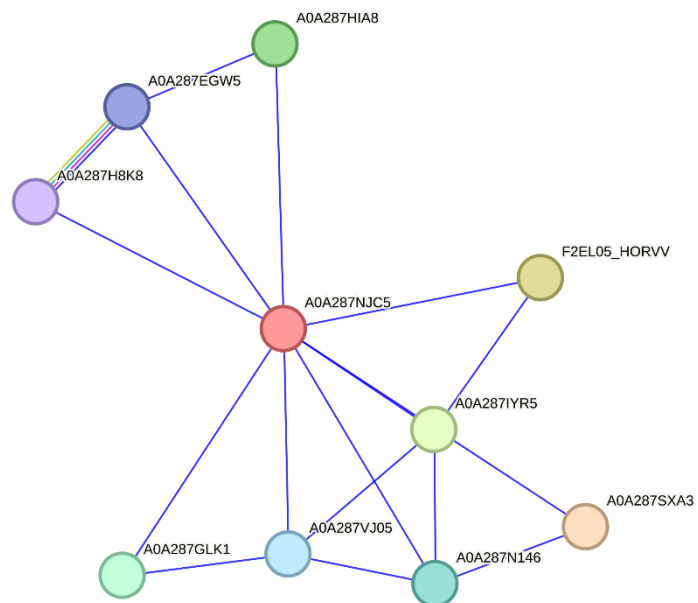


Fig. S140. Protein-protein interaction (PPI) network of HvLEAs clusters

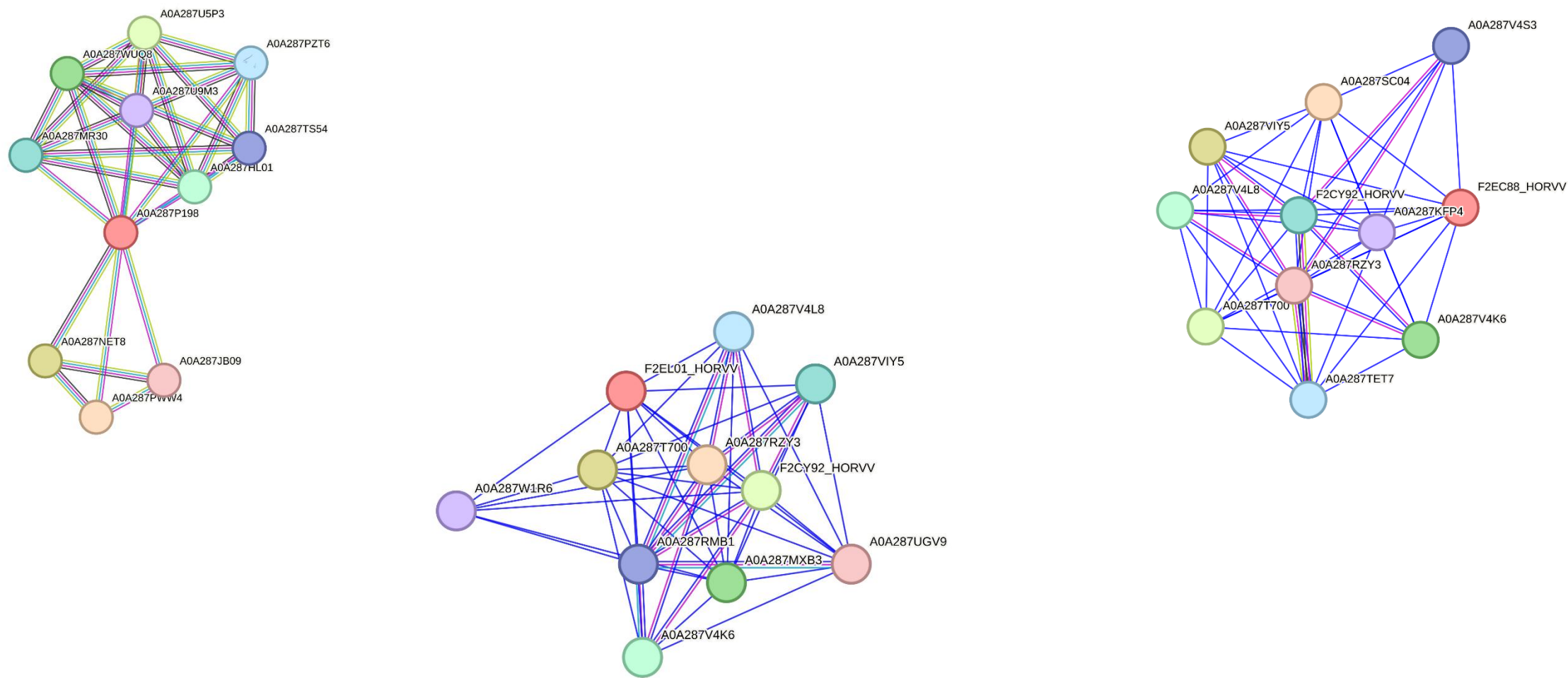


Fig. S141. Protein-protein interaction (PPI) network of HvLEAs clusters

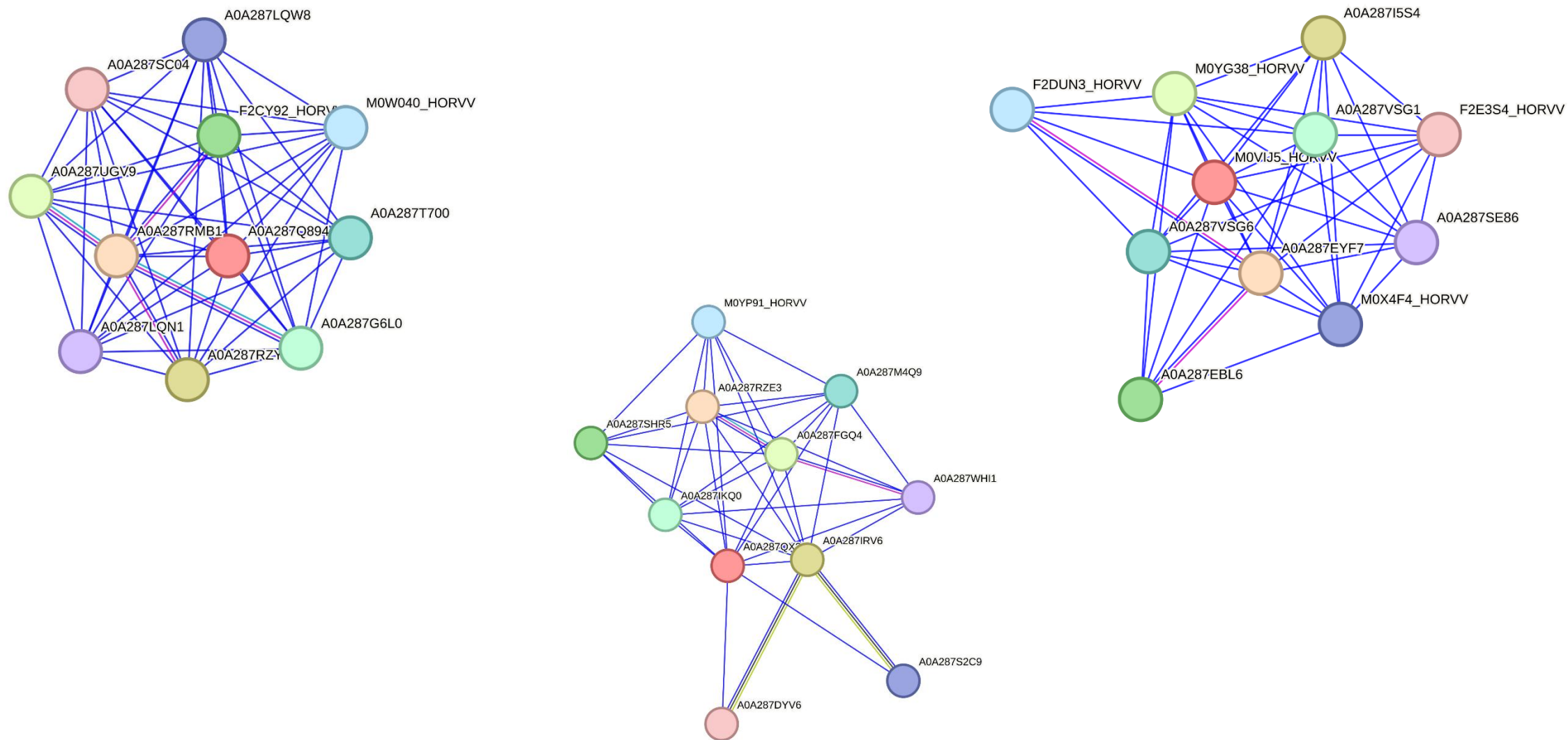


Fig. S142. Protein-protein interaction (PPI) network of HvLEAs clusters

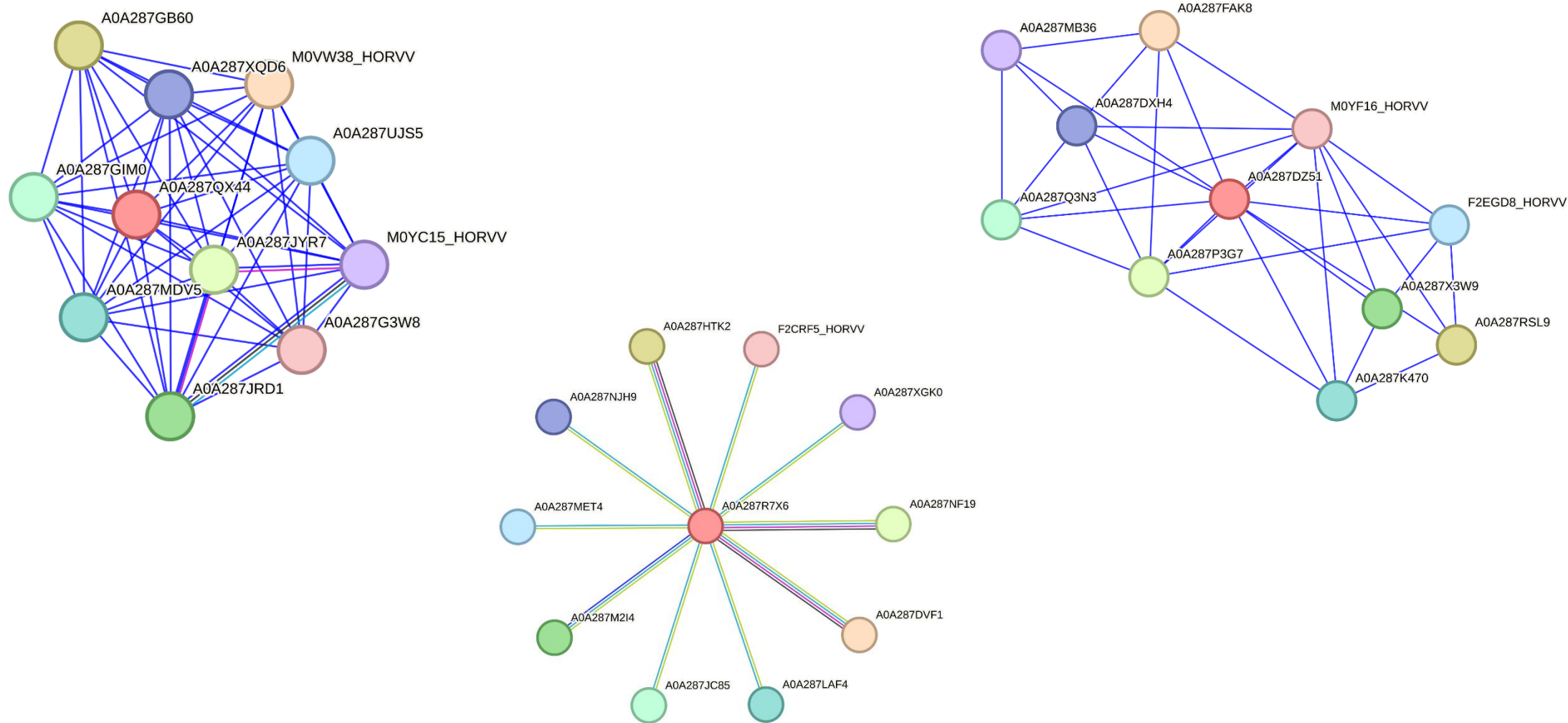


Fig. S143. Protein-protein interaction (PPI) network of HvLEAs clusters

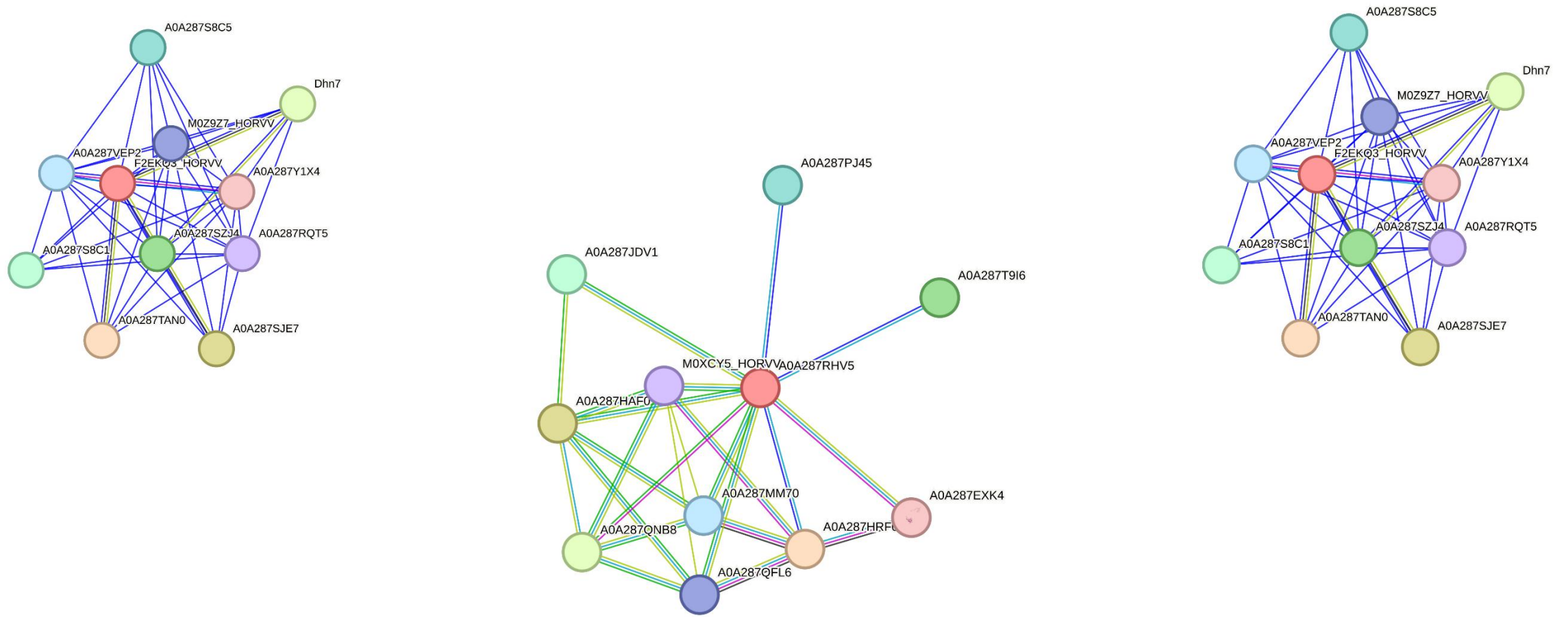


Fig. S144. Protein-protein interaction (PPI) network of HvLEAs clusters

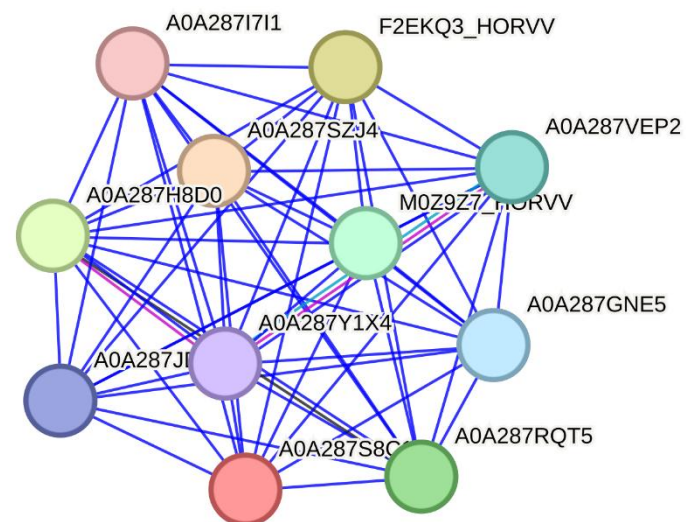
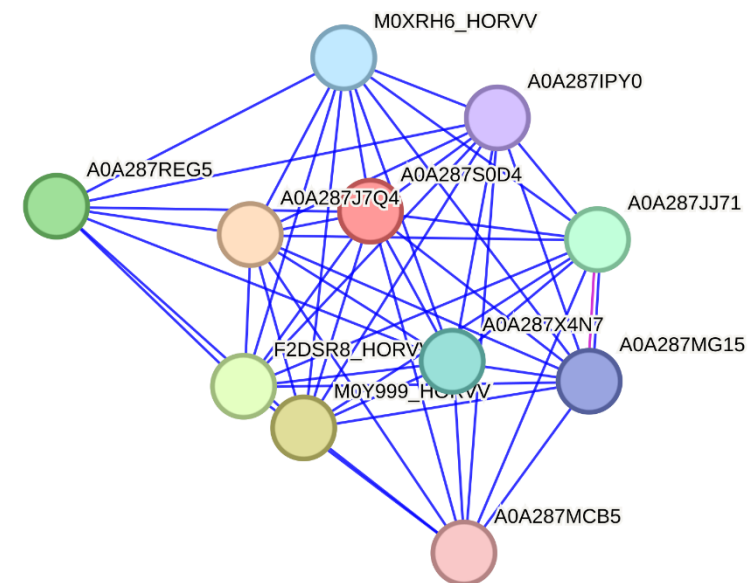
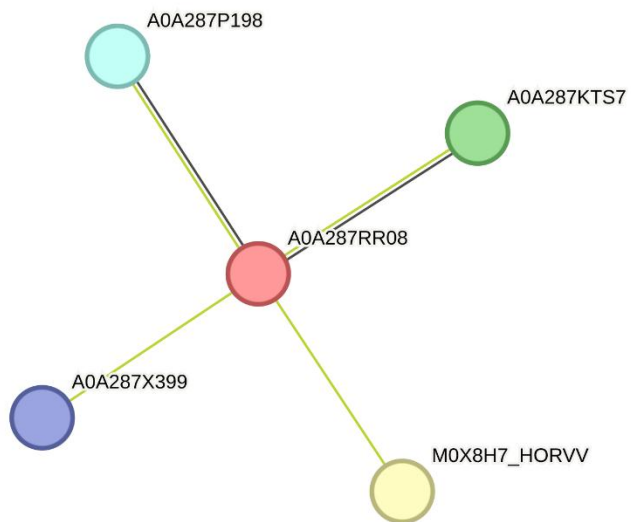


Fig. S145. Protein-protein interaction (PPI) network of HvLEAs clusters

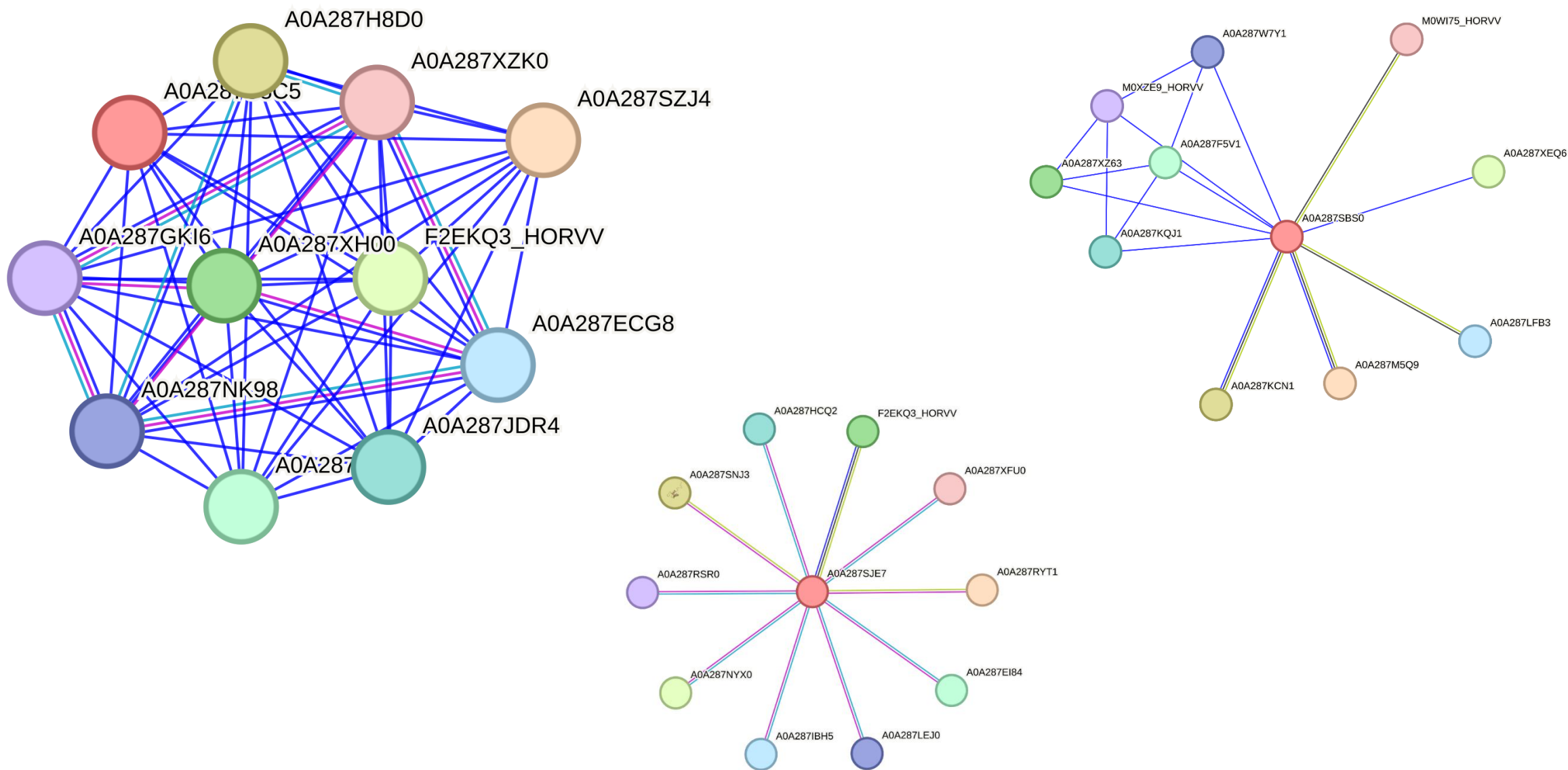


Fig. S146. Protein-protein interaction (PPI) network of HvLEAs clusters

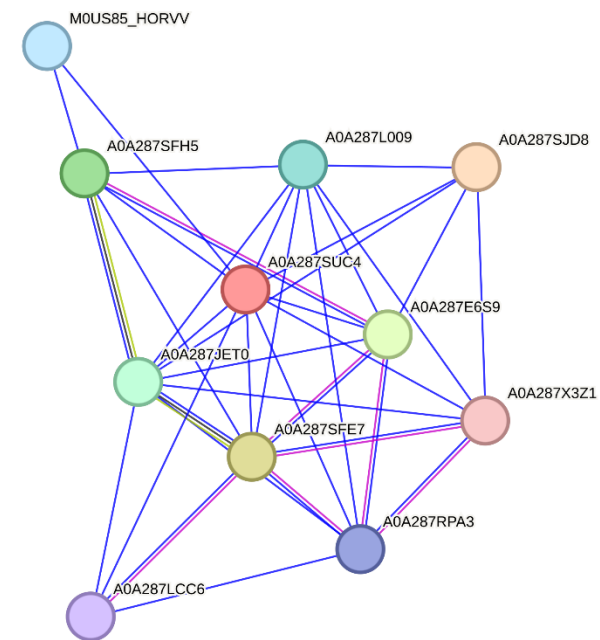
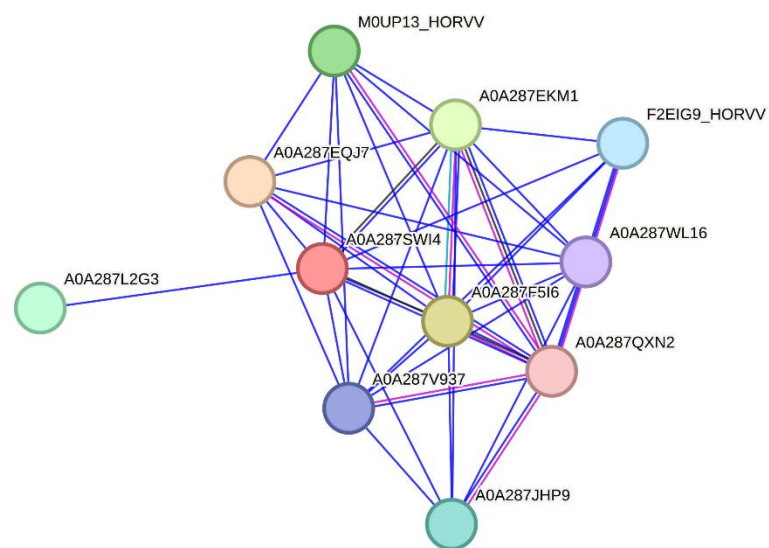


Fig. S147. Protein-protein interaction (PPI) network of HvLEAs clusters

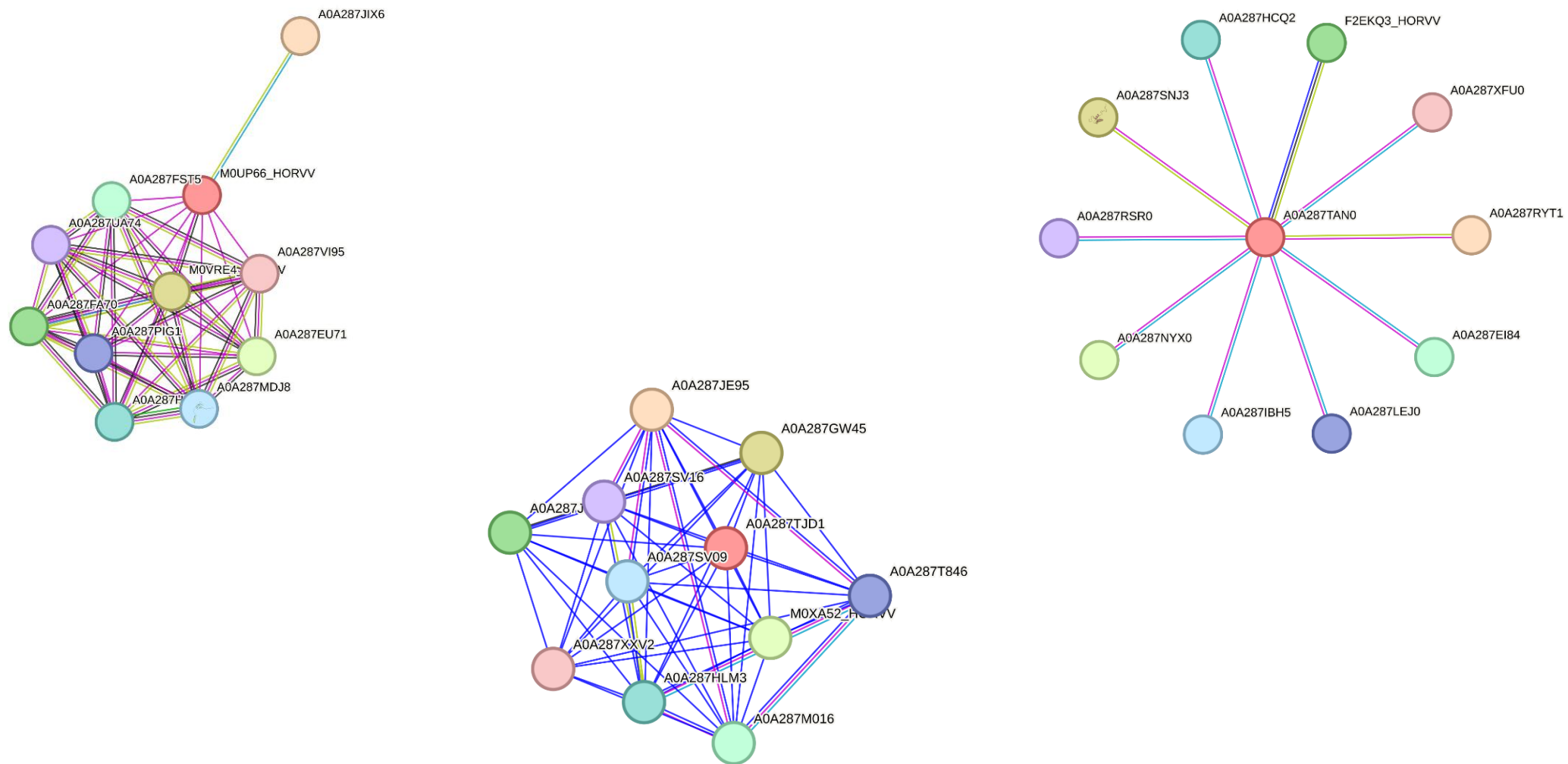


Fig. S148. Protein-protein interaction (PPI) network of HvLEAs clusters

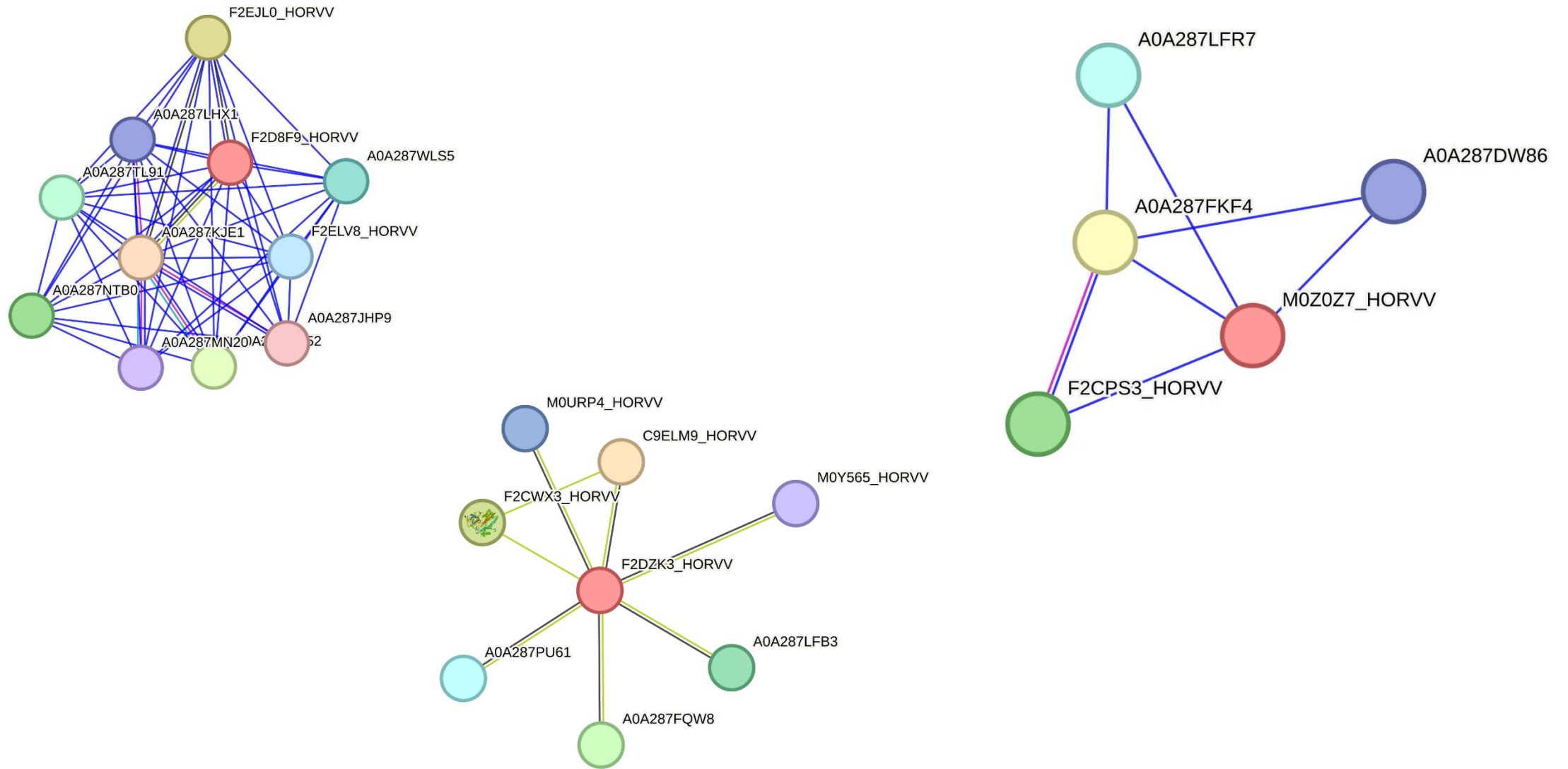


Fig. S149. Protein-protein interaction (PPI) network of HvLEAs clusters

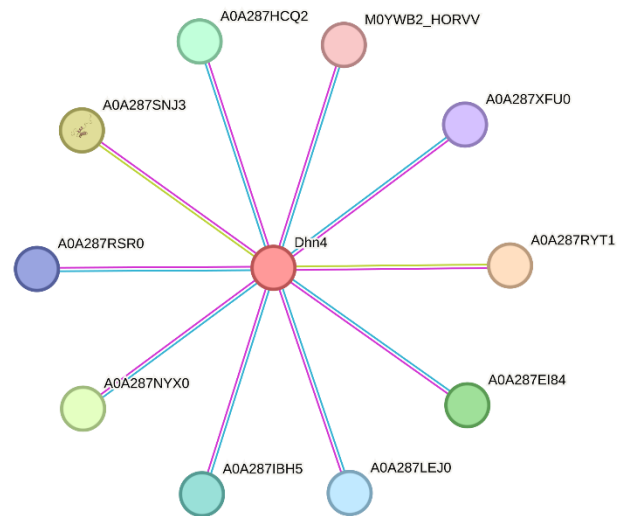
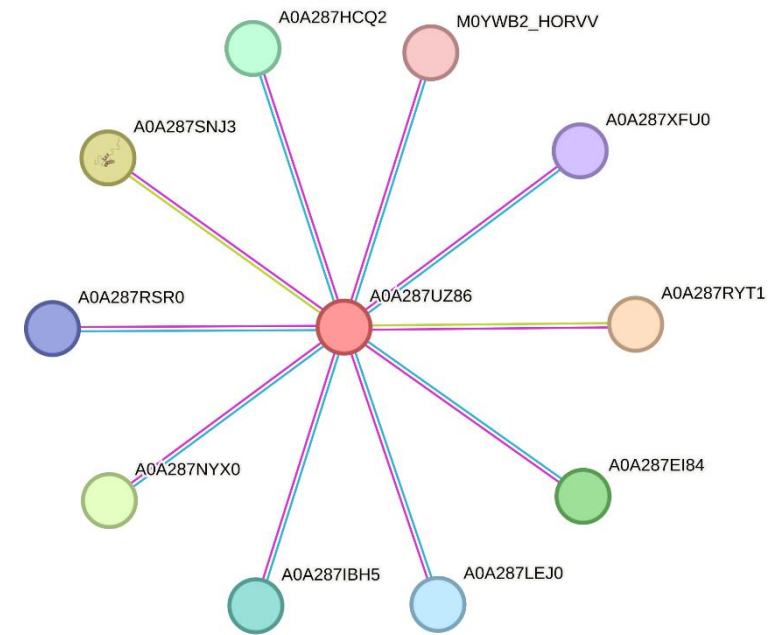
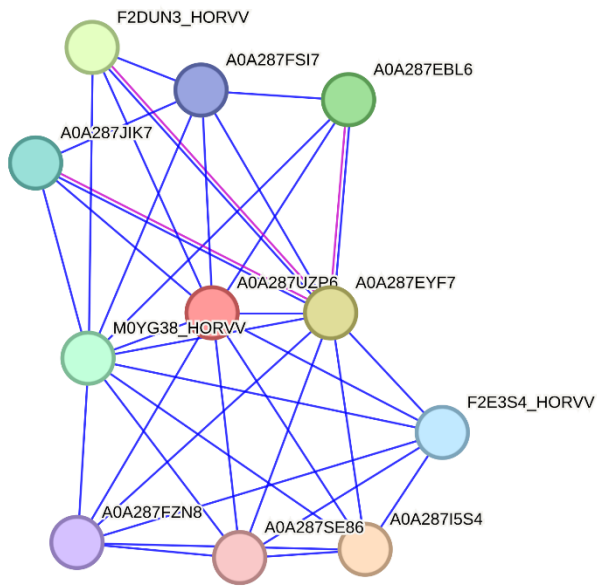


Fig. S151. Protein-protein interaction (PPI) network of HvLEAs clusters

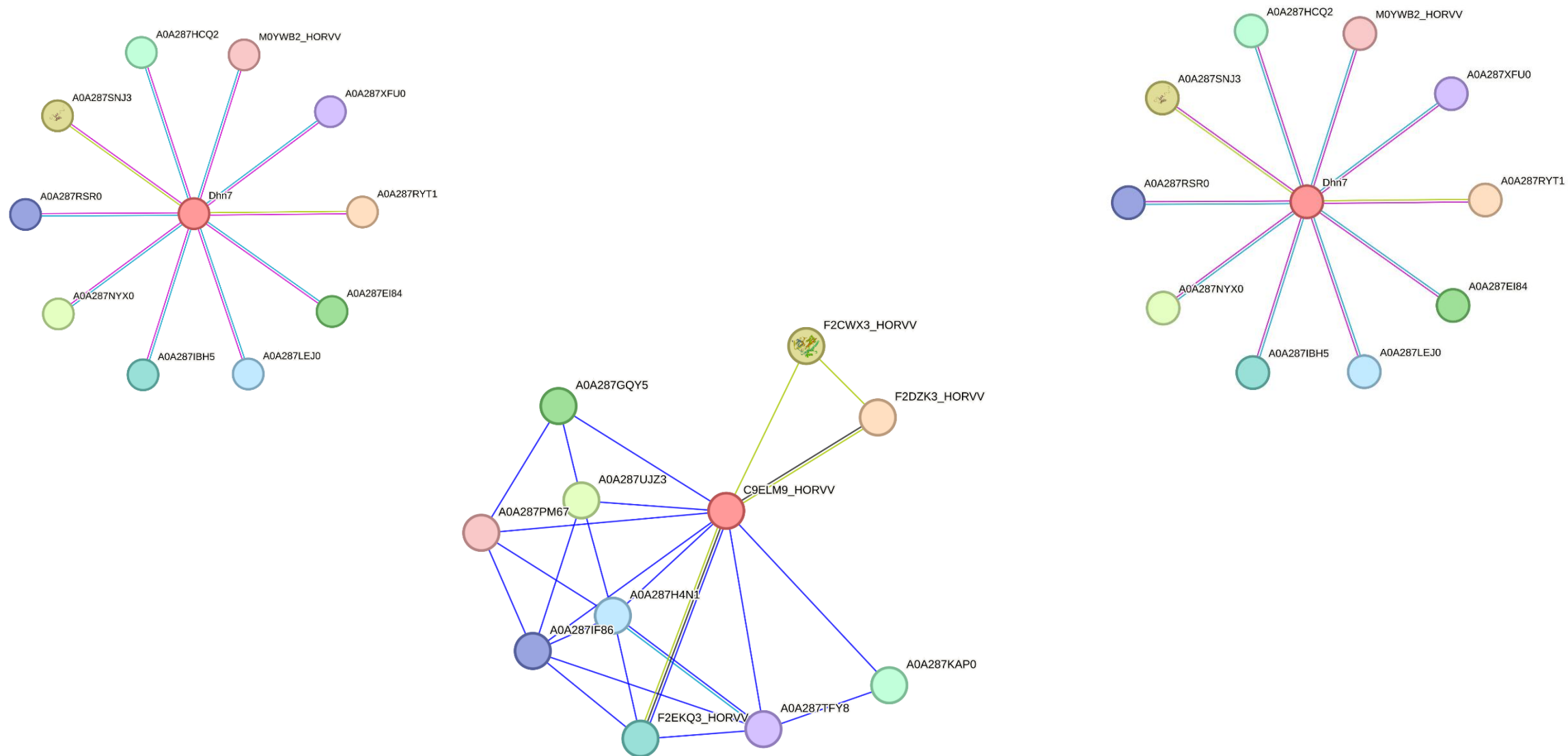


Fig. S152. Protein-protein interaction (PPI) network of HvLEAs clusters

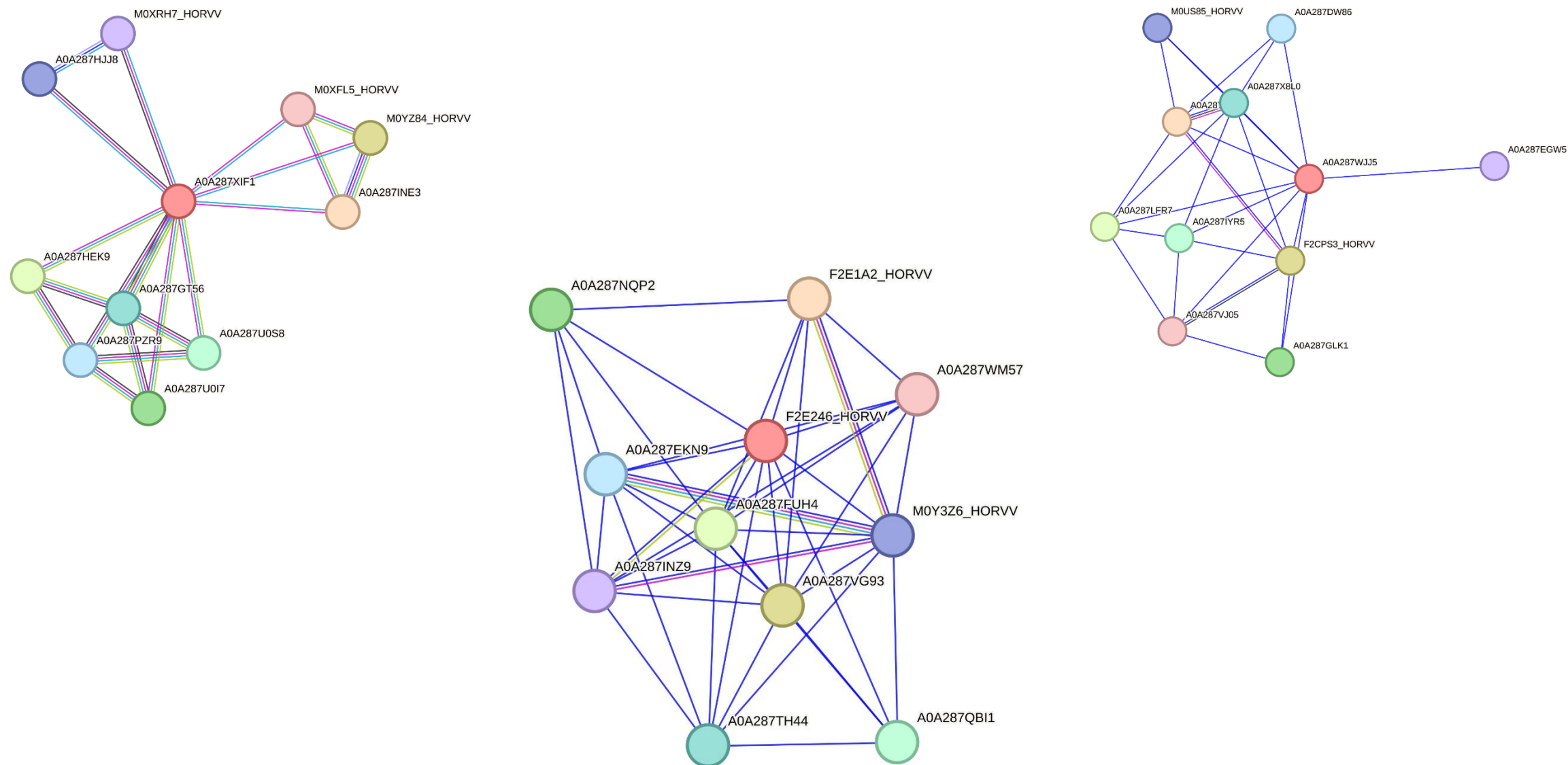


Fig. S153. Protein-protein interaction (PPI) network of HvLEAs clusters

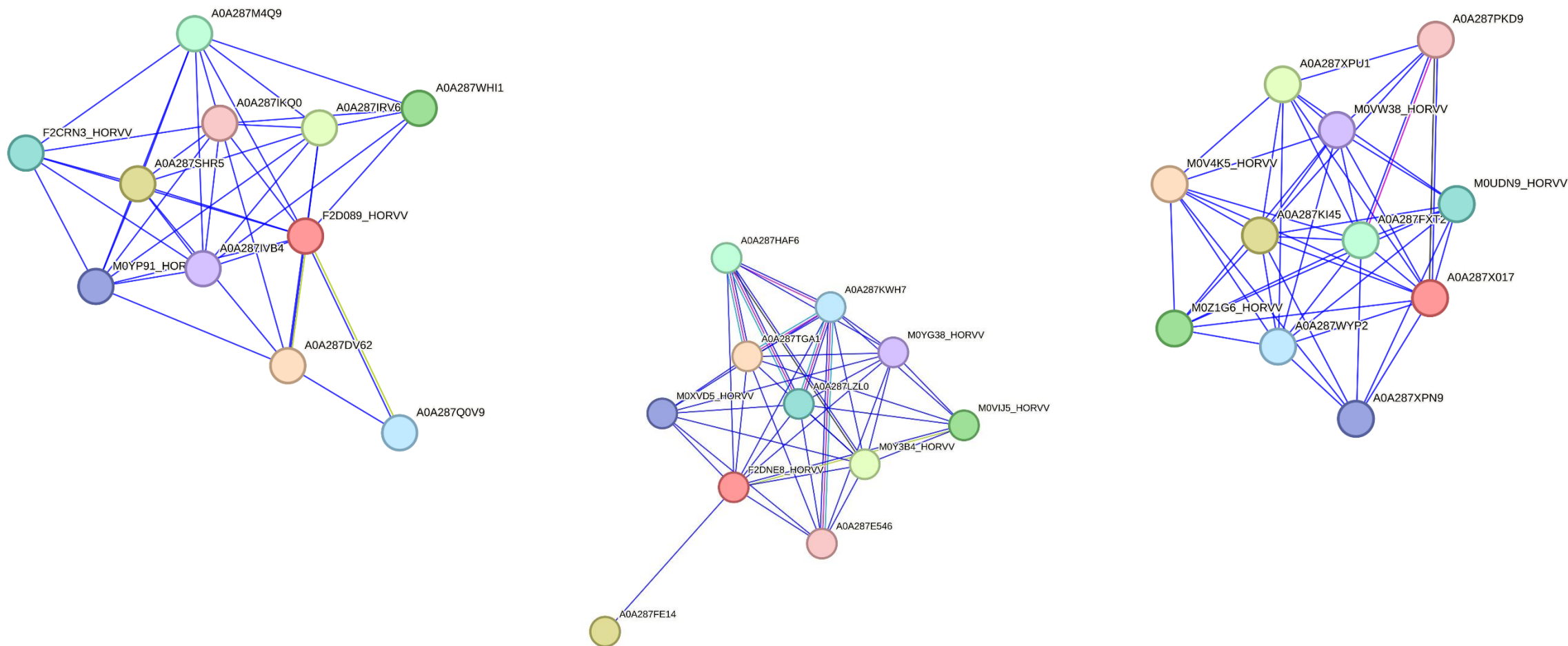


Fig. S154. Protein-protein interaction (PPI) network of HvLEAs clusters

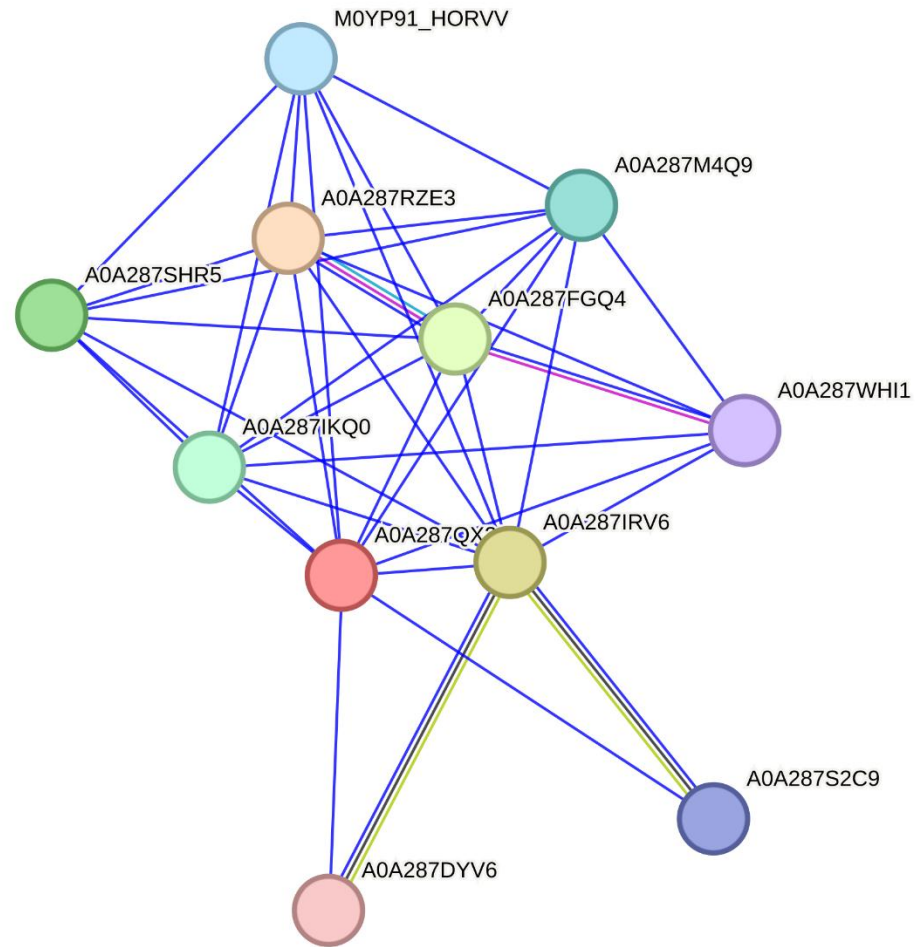


Fig. S155. Protein-protein interaction (PPI) network of HvLEAs clusters

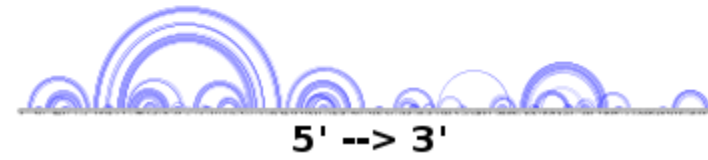
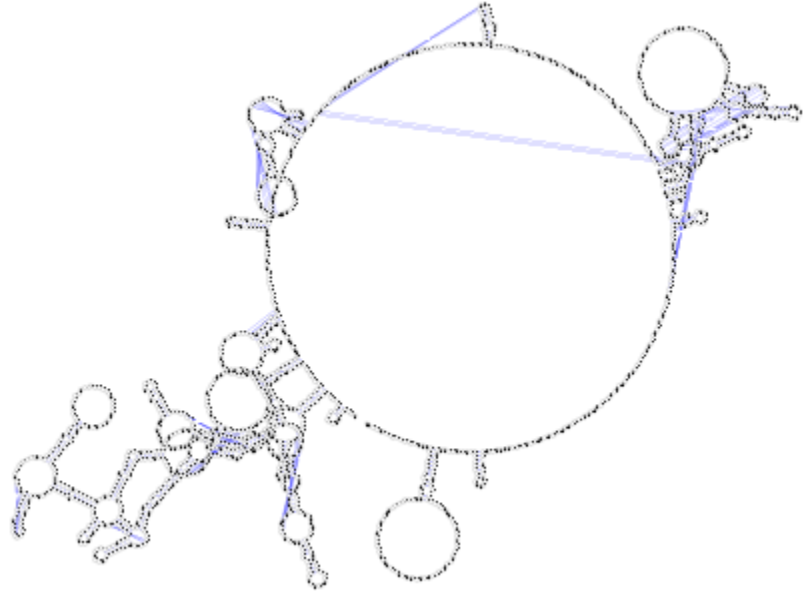


Fig. S157. Predicting RNA secondary structures of HvSnRK-39

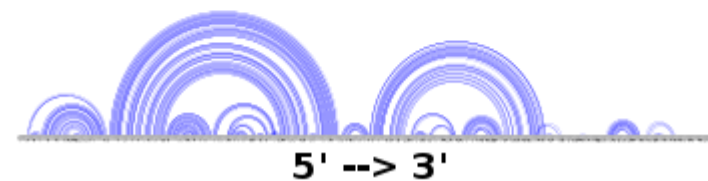
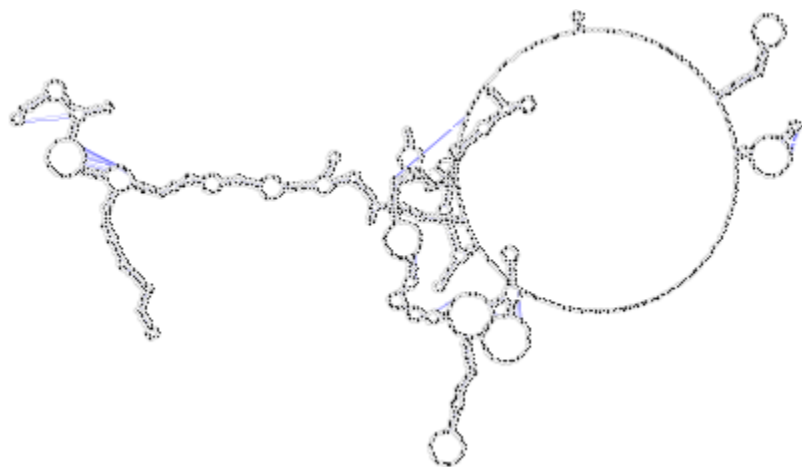


Fig. S158. Predicting RNA secondary structures of HvSnRK-65

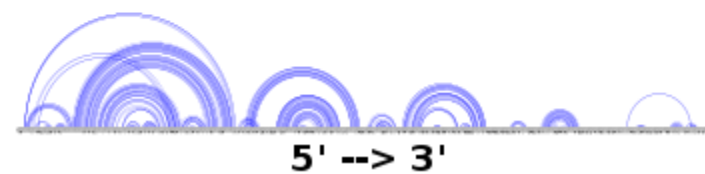
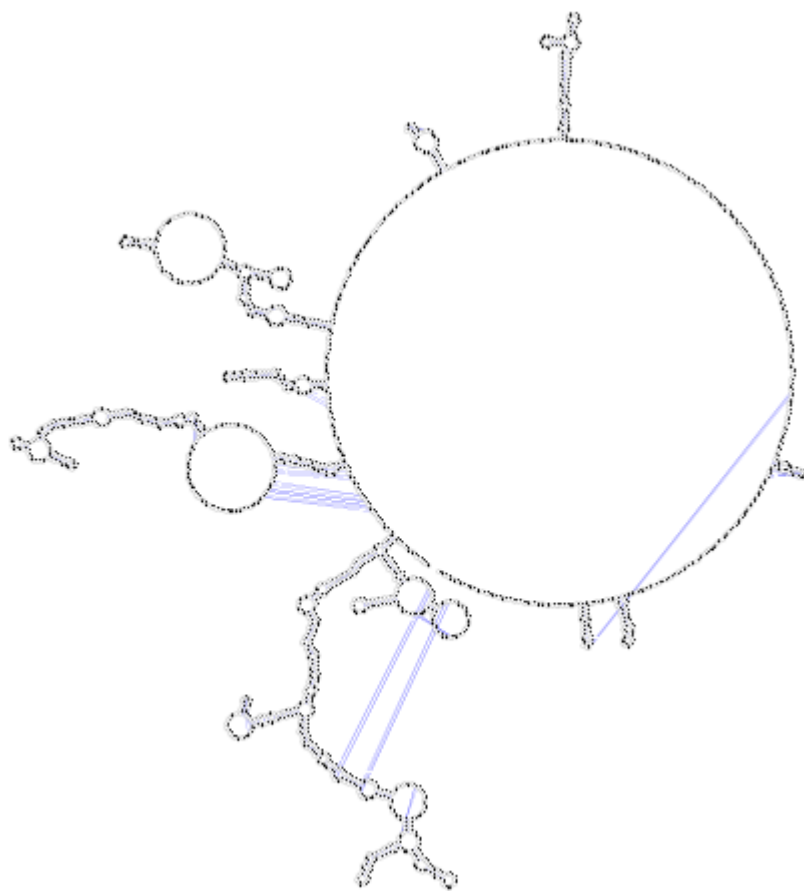


Fig. S159. Predicting RNA secondary structures of HvSnRK-70

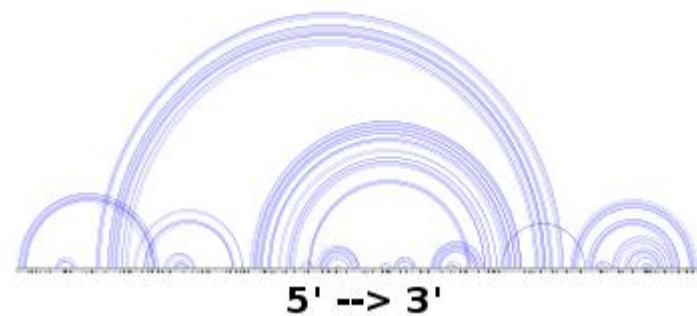
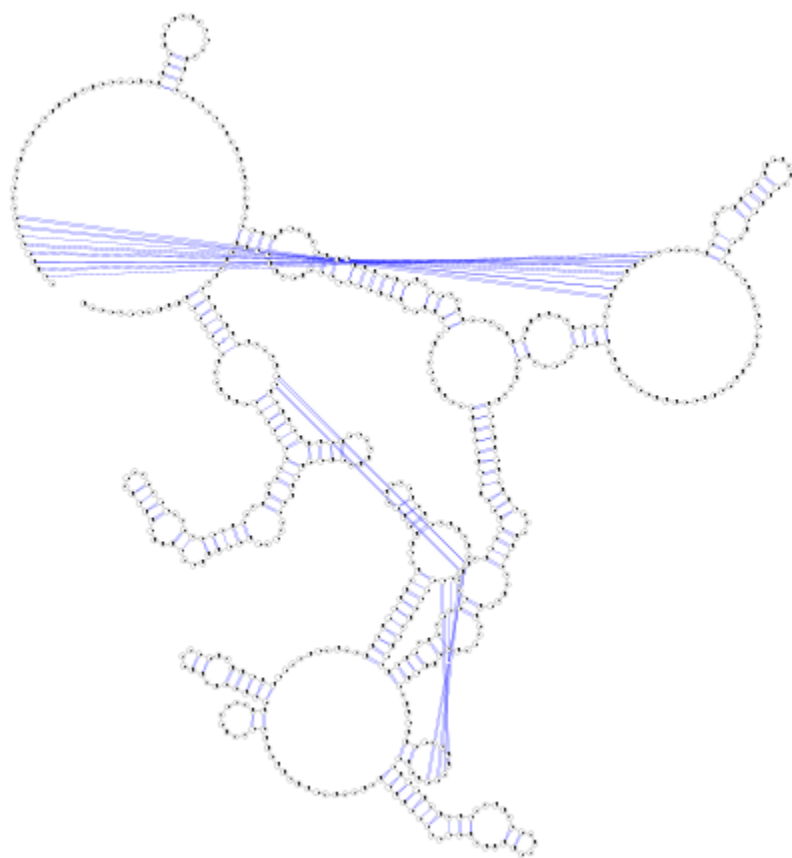


Fig. S160. Predicting RNA secondary structures of HvLEA-6

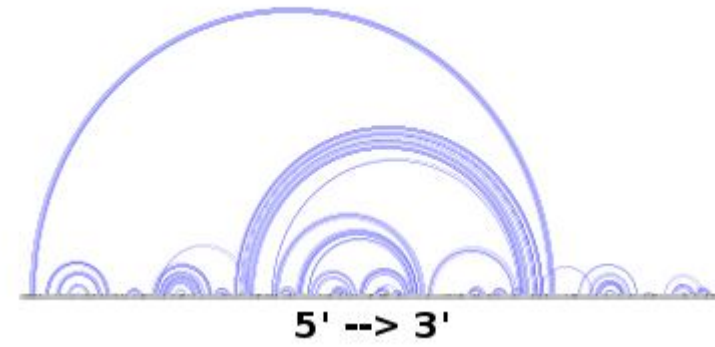
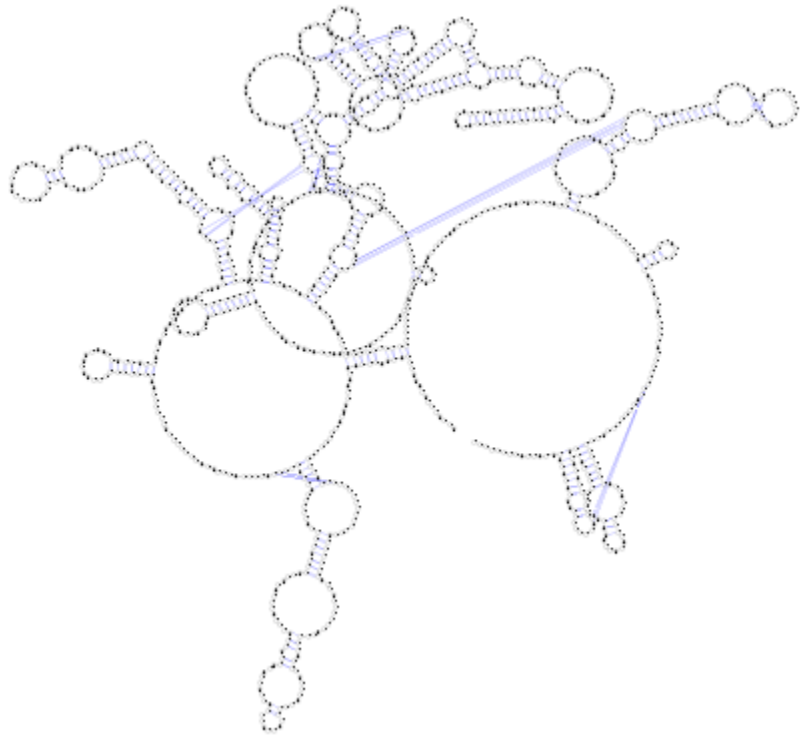


Fig. S161. Predicting RNA secondary structures of HvLEA-75

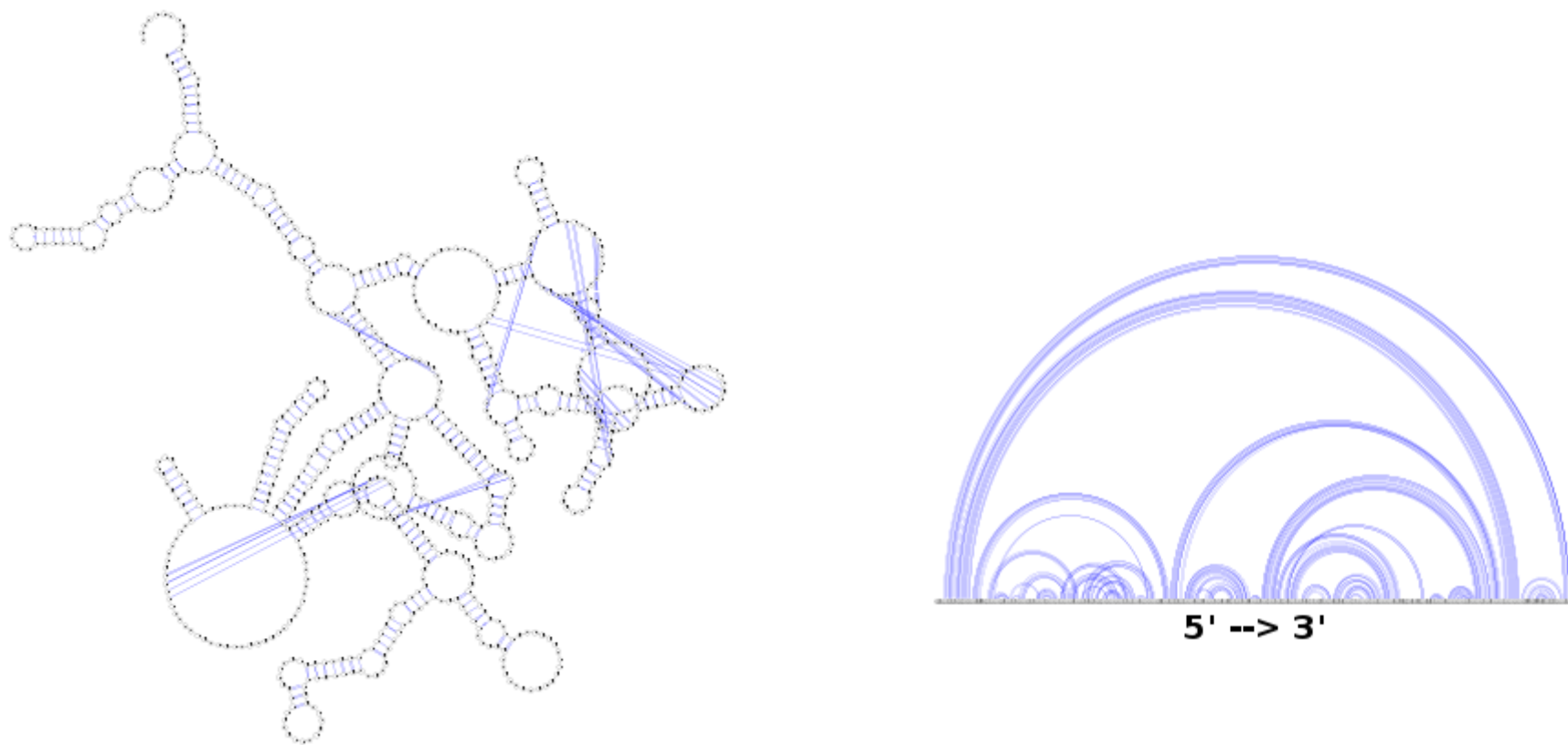


Fig. S162. Predicting RNA secondary structures of HvLEA-79

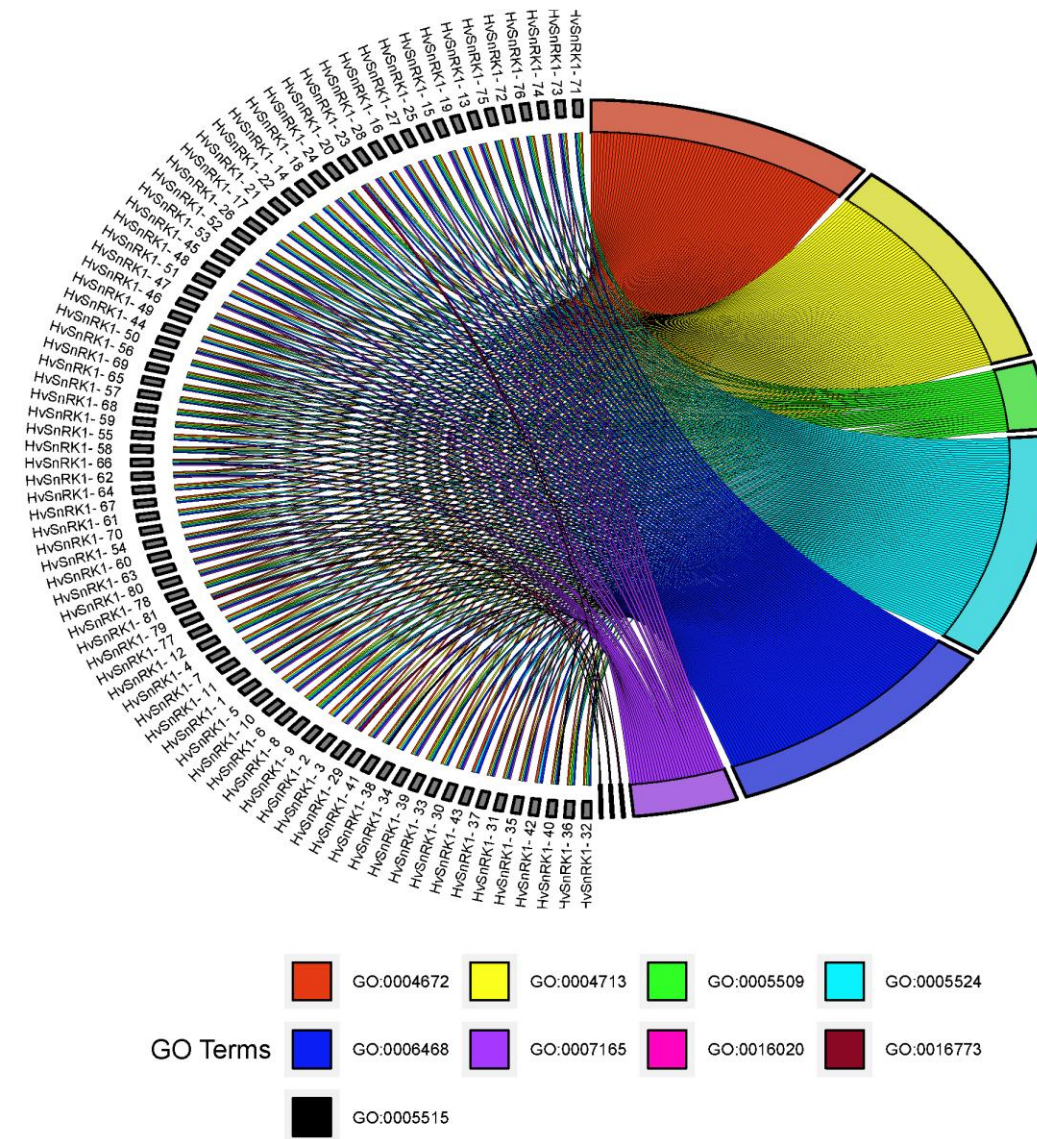


Fig. S163. GO terms for *HvSnRK* genes

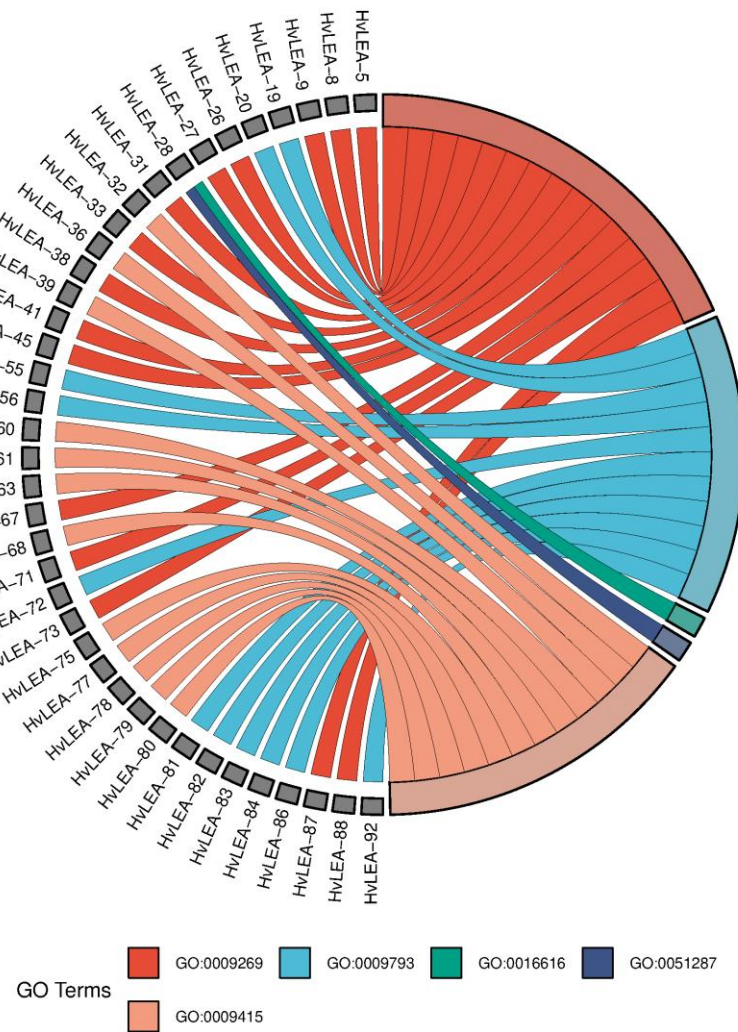


Fig. S164. GO terms for *HvLEA* genes

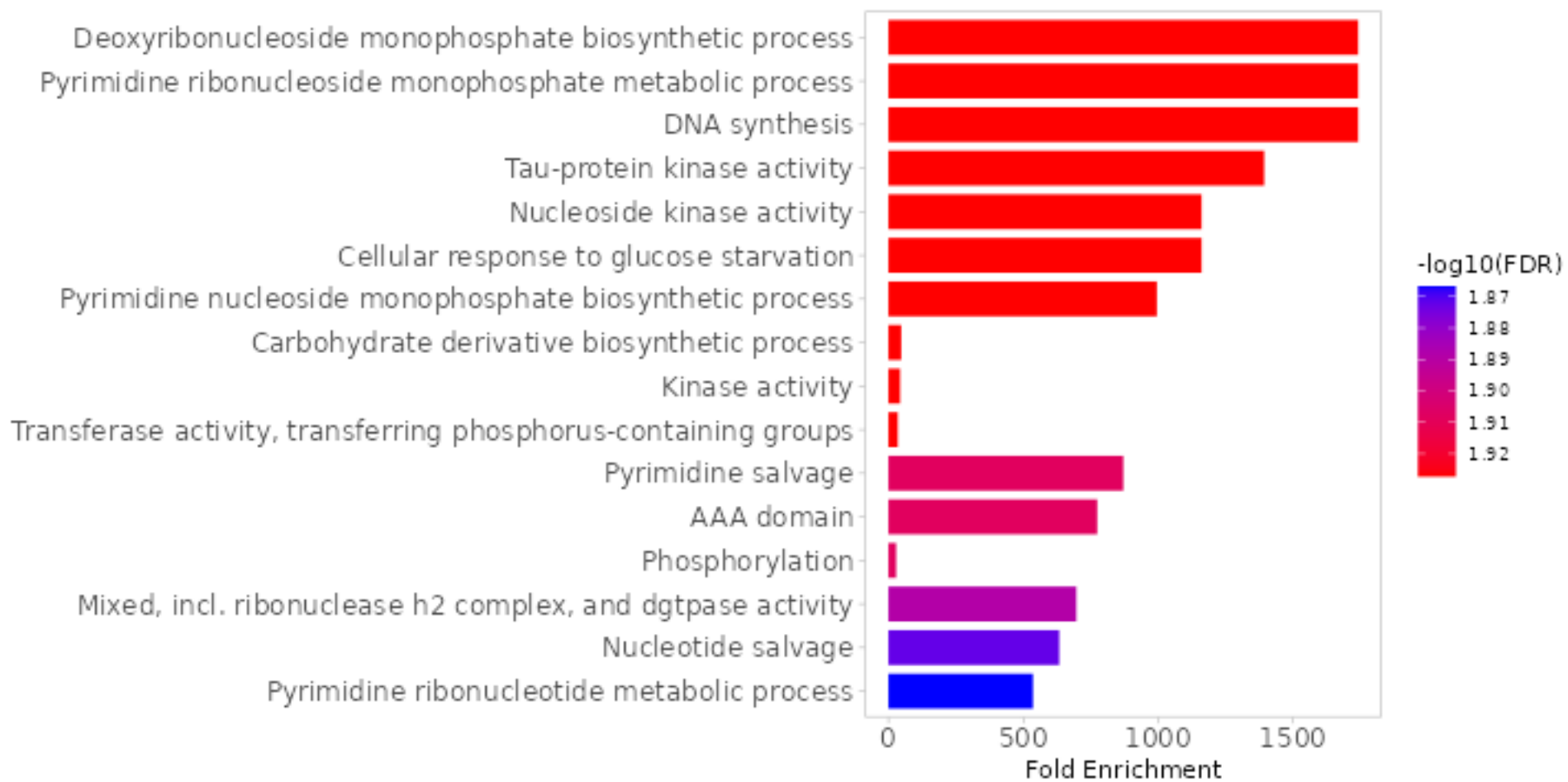


Fig. S165. Gene ontology enrichment analysis were confirmed the functional role of *HvSnRK* as a stress responsive

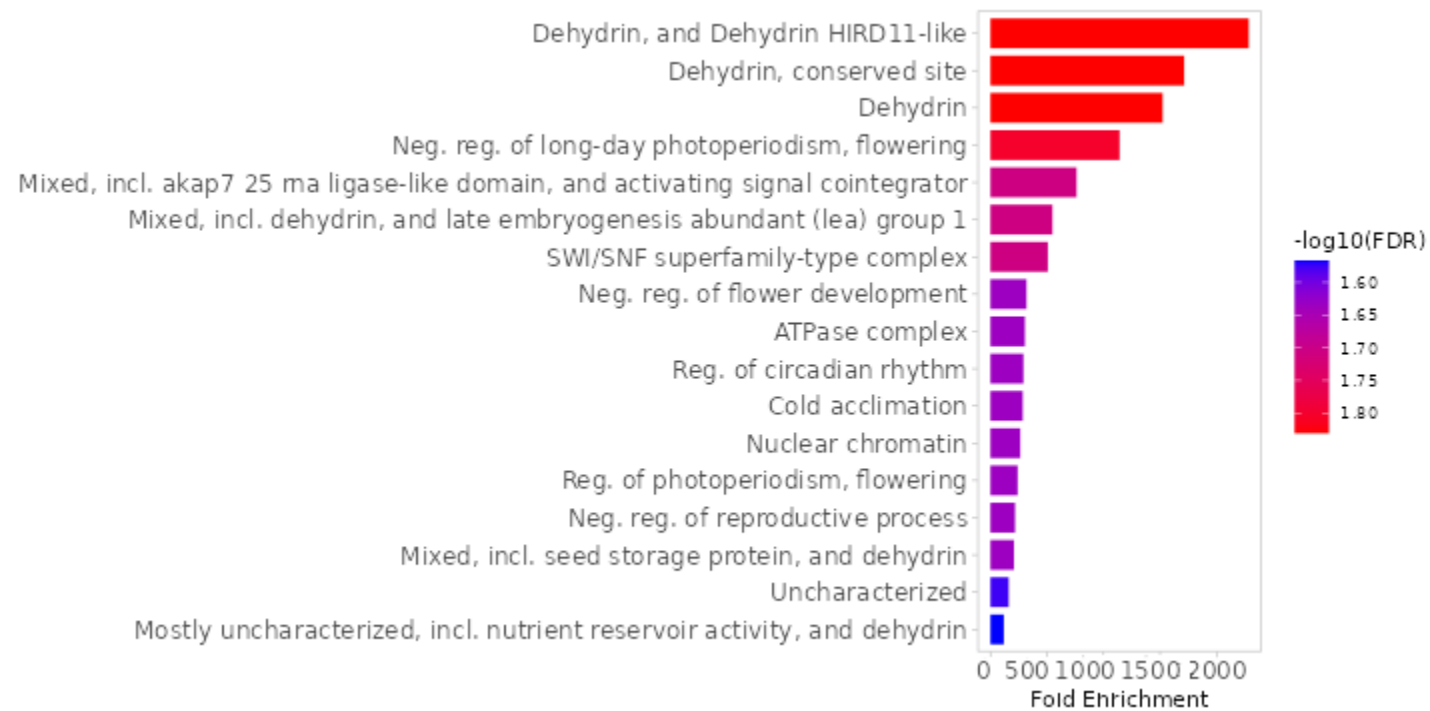


Fig. S166. Gene ontology enrichment analysis were confirmed the functional role of *HvLEA* as a stress responsive