

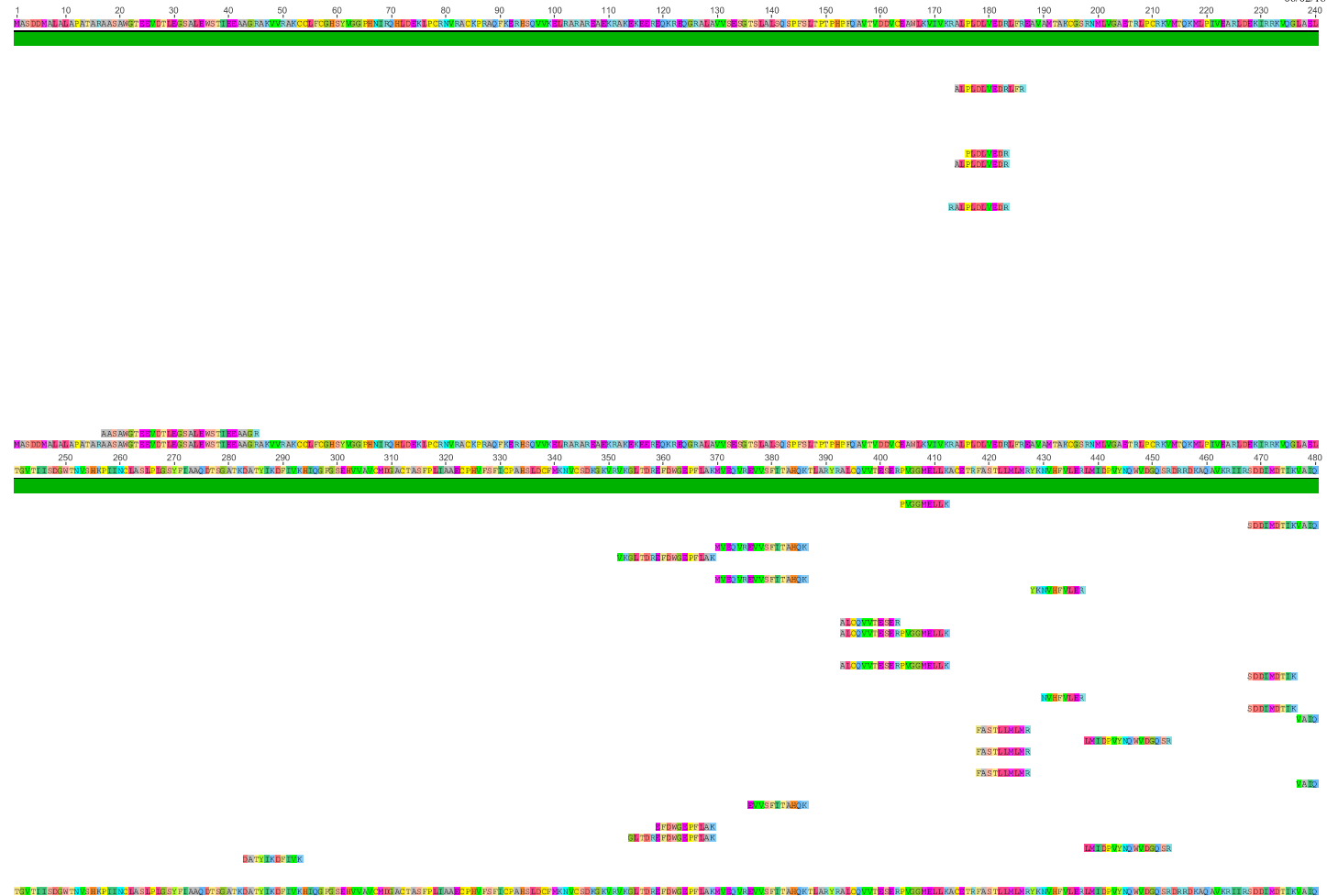
hAT2_Ace_peptides.aln

Consensus Identity

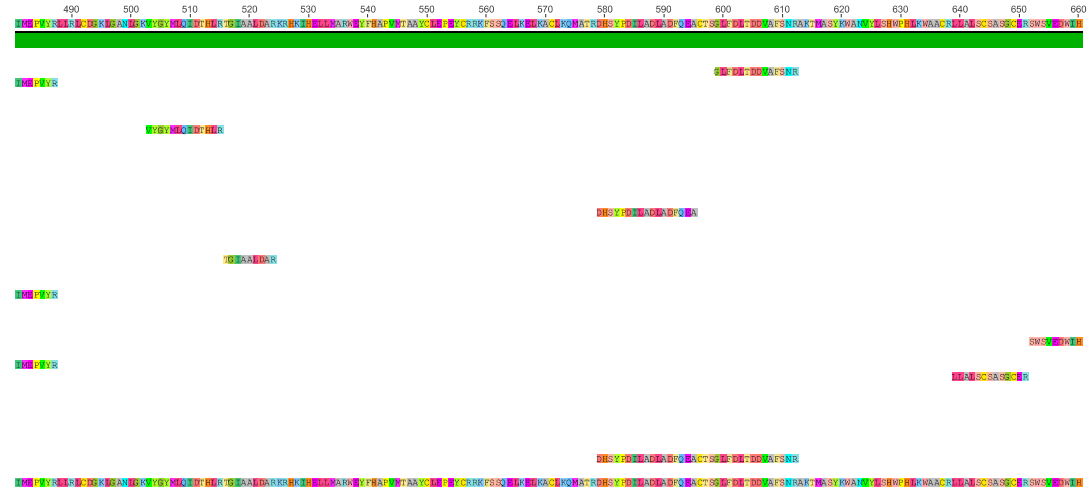
- 1. P65.01_Pep5801
- 2. P65.01_Pep5800
- 3. P65.01_Pep5799
- 4. P65.01_Pep5798
- 5. P65.01_Pep5797
- 6. P65.01_Pep5796
- 7. P65.01_Pep5795
- 8. P65.01_Pep5794
- 9. P65.01_Pep5793
- 10. P65.01_Pep5792
- 11. P65.01_Pep5791
- 12. P65.01_Pep5790
- 13. P65.01_Pep5789
- 14. P65.01_Pep5788
- 15. P65.01_Pep5787
- 16. P65.01_Pep5786
- 17. P65.01_Pep5785
- 18. P65.01_Pep5784
- 19. P65.01_Pep5783
- 20. P65.01_Pep5782
- 21. P65.01_Pep5781
- 22. P65.01_Pep5780
- 23. P65.01_Pep5779
- 24. P65.01_Pep5778
- 25. P65.01_Pep5777
- 26. P65.01_Pep5776
- 27. P65.01_Pep5775
- 28. P65.01_Pep5774
- 29. P65.01_Pep5773
- 30. P65.01_Pep5772
- 31. P65.01_Pep5769
- 32. P65.01_Pep5768
- 33. P65.01_Pep5767
- 34. P65.01_Pep5766
- 35. P65.01_Pep5771
- 36. P65.01_Pep5770
- 37. hAT2_Ace_protein

Consensus Identity

- 1. P65.01_Pep5801
- 2. P65.01_Pep5800
- 3. P65.01_Pep5799
- 4. P65.01_Pep5798
- 5. P65.01_Pep5797
- 6. P65.01_Pep5796
- 7. P65.01_Pep5795
- 8. P65.01_Pep5794
- 9. P65.01_Pep5793
- 10. P65.01_Pep5792
- 11. P65.01_Pep5791
- 12. P65.01_Pep5790
- 13. P65.01_Pep5789
- 14. P65.01_Pep5788
- 15. P65.01_Pep5787
- 16. P65.01_Pep5786
- 17. P65.01_Pep5785
- 18. P65.01_Pep5784
- 19. P65.01_Pep5783
- 20. P65.01_Pep5782
- 21. P65.01_Pep5781
- 22. P65.01_Pep5780
- 23. P65.01_Pep5779
- 24. P65.01_Pep5778
- 25. P65.01_Pep5777
- 26. P65.01_Pep5776
- 27. P65.01_Pep5775
- 28. P65.01_Pep5774
- 29. P65.01_Pep5773
- 30. P65.01_Pep5772
- 31. P65.01_Pep5769
- 32. P65.01_Pep5768
- 33. P65.01_Pep5767
- 34. P65.01_Pep5766
- 35. P65.01_Pep5771
- 36. P65.01_Pep5770
- 37. hAT2_Ace_protein



- Consensus
Identity
1. P65.01_Pep5801
 2. **P65.01_Pep5800**
 3. **P65.01_Pep5799**
 4. P65.01_Pep5788
 5. P65.01_Pep5797
 6. P65.01_Pep5796
 7. **P65.01_Pep5795**
 8. P65.01_Pep5794
 9. P65.01_Pep5793
 10. P65.01_Pep5792
 11. P65.01_Pep5791
 12. P65.01_Pep5790
 13. P65.01_Pep5789
 14. **P65.01_Pep5788**
 15. P65.01_Pep5787
 16. P65.01_Pep5786
 17. P65.01_Pep5785
 18. **P65.01_Pep5784**
 19. P65.01_Pep5783
 20. P65.01_Pep5782
 21. **P65.01_Pep5781**
 22. P65.01_Pep5780
 23. P65.01_Pep5779
 24. P65.01_Pep5778
 25. **P65.01_Pep5777**
 26. P65.01_Pep5776
 27. **P65.01_Pep5775**
 28. **P65.01_Pep5774**
 29. P65.01_Pep5773
 30. **P65.01_Pep5772**
 31. P65.01_Pep5769
 32. P65.01_Pep5768
 33. P65.01_Pep5767
 34. P65.01_Pep5766
 35. **P65.01_Pep5771**
 36. P65.01_Pep5770
 37. hAT2_Ace_protein



Consensus
Identity

1 10 20 30 40 50 60 70 80 90
MMTWDASGWN¹⁰YGVQLV²⁰WKRK³⁰WATGDM⁴⁰LIE⁵⁰CPPE⁶⁰CTFDDR⁷⁰VDM⁸⁰TR⁹⁰LQ¹⁰⁰TR¹¹⁰SCL¹²⁰PV¹³⁰HS¹⁴⁰AE¹⁵⁰GM¹⁶⁰QTE¹⁷⁰E¹⁸⁰TFL¹⁹⁰HY²⁰⁰I²¹⁰HR²²⁰LDE²³⁰WIS²⁴⁰Q²⁵⁰RS²⁶⁰AV²⁷⁰EAA²⁸⁰TGG²⁹⁰PE³⁰⁰PI³¹⁰Q

- 1. P942.01_Pep26259
- 2. P942.01_Pep26260
- 3. P942.01_Pep26262
- 4. P942.01_Pep26263
- 5. P942.01_Pep26265
- 6. P942.01_Pep26266
- 7. Mariner3_Luffy_protein

S²⁶⁰AV²⁷⁰EAA²⁸⁰TGG²⁹⁰PE³⁰⁰PI³¹⁰Q

Consensus
Identity

100 110 120 130 140 150 160 170 180
R¹⁰⁰PV¹¹⁰LM¹²⁰LD¹³⁰NH¹⁴⁰CSR¹⁵⁰FS¹⁶⁰DE¹⁷⁰IL¹⁸⁰RK¹⁹⁰TSG²⁰⁰PAA²¹⁰EL²²⁰GI²³⁰RIF²⁴⁰TE²⁵⁰ES²⁶⁰GT²⁷⁰S²⁸⁰GF²⁹⁰LQ³⁰⁰AL³¹⁰DQ³²⁰FN³³⁰SS³⁴⁰F³⁵⁰HR³⁶⁰SY³⁷⁰NK³⁸⁰AR³⁹⁰DAY⁴⁰⁰K⁴¹⁰DA⁴²⁰HL⁴³⁰AV⁴⁴⁰HG⁴⁵⁰PL⁴⁶⁰LS⁴⁷⁰HL⁴⁸⁰AL⁴⁹⁰AD⁵⁰⁰FL⁵¹⁰GI⁵²⁰LG⁵³⁰GS⁵⁴⁰SK

- 1. P942.01_Pep26259
- 2. P942.01_Pep26260
- 3. P942.01_Pep26262
- 4. P942.01_Pep26263
- 5. P942.01_Pep26265
- 6. P942.01_Pep26266
- 7. Mariner3_Luffy_protein

I²⁵⁰FT²⁶⁰ES²⁷⁰GT²⁸⁰S²⁹⁰GF³⁰⁰LQ³¹⁰AL³²⁰DQ³³⁰FN³⁴⁰SS³⁵⁰F³⁶⁰HR

R¹⁰⁰
FS²⁰⁰DE²¹⁰IL²²⁰RK²³⁰TSG²⁴⁰PAA²⁵⁰EL²⁶⁰GI²⁷⁰RIF²⁸⁰TE²⁹⁰ES³⁰⁰GT³¹⁰S³²⁰GF³³⁰LQ³⁴⁰AL³⁵⁰DQ³⁶⁰FN³⁷⁰SS³⁸⁰F³⁹⁰HR⁴⁰⁰SY⁴¹⁰NK⁴²⁰AR⁴³⁰DAY⁴⁴⁰K⁴⁵⁰DA⁴⁶⁰HL⁴⁷⁰AV⁴⁸⁰HG⁴⁹⁰PL⁵⁰⁰LS⁵¹⁰HL⁵²⁰AL⁵³⁰AD⁵⁴⁰FL⁵⁵⁰GI⁵⁶⁰LG⁵⁷⁰GS⁵⁸⁰SK

Consensus
Identity

190 200 210 220 230 240 250 260 270
R¹⁹⁰LG²⁰⁰VP²¹⁰GM²²⁰WF²³⁰SW²⁴⁰CD²⁵⁰RY²⁶⁰DI²⁷⁰LK²⁸⁰AW²⁹⁰KR³⁰⁰VG³¹⁰IA³²⁰GN³³⁰RL³⁴⁰CP³⁵⁰QL³⁶⁰VDR³⁷⁰SN³⁸⁰F³⁹⁰WD⁴⁰⁰QDA⁴¹⁰E⁴²⁰LAA⁴³⁰ARR⁴⁴⁰DAS⁴⁵⁰VSS⁴⁶⁰PG⁴⁷⁰PSS⁴⁸⁰LA⁴⁹⁰EAK⁵⁰⁰RT⁵¹⁰PP⁵²⁰GL⁵³⁰RR⁵⁴⁰GS⁵⁵⁰LAAA⁵⁶⁰NAK⁵⁷⁰LQ⁵⁸⁰QLE⁵⁹⁰Q⁶⁰⁰E

- 1. P942.01_Pep26259
- 2. P942.01_Pep26260
- 3. P942.01_Pep26262
- 4. P942.01_Pep26263
- 5. P942.01_Pep26265
- 6. P942.01_Pep26266
- 7. Mariner3_Luffy_protein

S³⁹⁰NF⁴⁰⁰WD⁴¹⁰QDA⁴²⁰E⁴³⁰LAA⁴⁴⁰ARR

DAS⁴⁵⁰VSS⁴⁶⁰PG⁴⁷⁰PSS⁴⁸⁰LA⁴⁹⁰EAK

R¹⁹⁰LG²⁰⁰VP²¹⁰GM²²⁰WF²³⁰SW²⁴⁰CD²⁵⁰RY²⁶⁰DI²⁷⁰LK²⁸⁰AW²⁹⁰KR³⁰⁰VG³¹⁰IA³²⁰GN³³⁰RL³⁴⁰CP³⁵⁰QL³⁶⁰VDR³⁷⁰SN³⁸⁰F³⁹⁰WD⁴⁰⁰QDA⁴¹⁰E⁴²⁰LAA⁴³⁰ARR⁴⁴⁰DAS⁴⁵⁰VSS⁴⁶⁰PG⁴⁷⁰PSS⁴⁸⁰LA⁴⁹⁰EAK⁵⁰⁰RT⁵¹⁰PP⁵²⁰GL⁵³⁰RR⁵⁴⁰GS⁵⁵⁰LAAA⁵⁶⁰NAK⁵⁷⁰LQ⁵⁸⁰QLE⁵⁹⁰Q⁶⁰⁰E

Consensus
Identity

280 290 300 310 320 330 340 350 360 370
AKK²⁸⁰LE²⁹⁰EKA³⁰⁰QAP³¹⁰YD³²⁰PS³³⁰RG³⁴⁰ML³⁵⁰LS³⁶⁰SS³⁷⁰DAPS³⁸⁰AR³⁹⁰QGG⁴⁰⁰TGS⁴¹⁰DD⁴²⁰SD⁴³⁰AAD⁴⁴⁰GDS⁴⁵⁰ASP⁴⁶⁰VR⁴⁷⁰ARRR⁴⁸⁰L⁴⁹⁰VQ⁵⁰⁰LS⁵¹⁰GS⁵²⁰F⁵³⁰T⁵⁴⁰LR⁵⁵⁰DM⁵⁶⁰WG⁵⁷⁰EK⁵⁸⁰QK⁵⁹⁰RQ⁶⁰⁰QEA⁶¹⁰AK⁶²⁰VED⁶³⁰AA⁶⁴⁰QR⁶⁵⁰KK⁶⁶⁰AA⁶⁷⁰R

- 1. P942.01_Pep26259
- 2. P942.01_Pep26260
- 3. P942.01_Pep26262
- 4. P942.01_Pep26263
- 5. P942.01_Pep26265
- 6. P942.01_Pep26266
- 7. Mariner3_Luffy_protein

G³⁵⁰ML³⁶⁰LS³⁷⁰SS³⁸⁰DAPS³⁹⁰AR

AKK²⁸⁰LE²⁹⁰EKA³⁰⁰QAP³¹⁰YD³²⁰PS³³⁰RG³⁴⁰ML³⁵⁰LS³⁶⁰SS³⁷⁰DAPS³⁸⁰AR³⁹⁰QGG⁴⁰⁰TGS⁴¹⁰DD⁴²⁰SD⁴³⁰AAD⁴⁴⁰GDS⁴⁵⁰ASP⁴⁶⁰VR⁴⁷⁰ARRR⁴⁸⁰L⁴⁹⁰VQ⁵⁰⁰LS⁵¹⁰GS⁵²⁰F⁵³⁰T⁵⁴⁰LR⁵⁵⁰DM⁵⁶⁰WG⁵⁷⁰EK⁵⁸⁰QK⁵⁹⁰RQ⁶⁰⁰QEA⁶¹⁰AK⁶²⁰VED⁶³⁰AA⁶⁴⁰QR⁶⁵⁰KK⁶⁶⁰AA⁶⁷⁰R

Consensus
Identity

380 390 400 410 420 430 440 450 460 463
L³⁸⁰E³⁹⁰KRA⁴⁰⁰ED⁴¹⁰E⁴²⁰ERS⁴³⁰RV⁴⁴⁰RR⁴⁵⁰DA⁴⁶⁰F⁴⁷⁰V⁴⁸⁰ACK⁴⁹⁰D⁵⁰⁰V⁵¹⁰CM⁵²⁰CA⁵³⁰IV⁵⁴⁰PC⁵⁵⁰W⁵⁶⁰EG⁵⁷⁰FM⁵⁸⁰L⁵⁹⁰CD⁶⁰⁰NC⁶¹⁰GN⁶²⁰L⁶³⁰KK⁶⁴⁰GW⁶⁵⁰CK⁶⁶⁰KR⁶⁷⁰EC⁶⁸⁰V⁶⁹⁰K⁷⁰⁰WR⁷¹⁰K⁷²⁰SP⁷³⁰VS⁷⁴⁰VASA⁷⁵⁰L⁷⁶⁰V⁷⁷⁰GL⁷⁸⁰ES⁷⁹⁰GV⁸⁰⁰CAS⁸¹⁰GAA⁸²⁰SD⁸³⁰V⁸⁴⁰G⁸⁵⁰ACP

- 1. P942.01_Pep26259
- 2. P942.01_Pep26260
- 3. P942.01_Pep26262
- 4. P942.01_Pep26263
- 5. P942.01_Pep26265
- 6. P942.01_Pep26266
- 7. Mariner3_Luffy_protein

L³⁸⁰E³⁹⁰KRA⁴⁰⁰ED⁴¹⁰E⁴²⁰ERS⁴³⁰RV⁴⁴⁰RR⁴⁵⁰DA⁴⁶⁰F⁴⁷⁰V⁴⁸⁰ACK⁴⁹⁰D⁵⁰⁰V⁵¹⁰CM⁵²⁰CA⁵³⁰IV⁵⁴⁰PC⁵⁵⁰W⁵⁶⁰EG⁵⁷⁰FM⁵⁸⁰L⁵⁹⁰CD⁶⁰⁰NC⁶¹⁰GN⁶²⁰L⁶³⁰KK⁶⁴⁰GW⁶⁵⁰CK⁶⁶⁰KR⁶⁷⁰EC⁶⁸⁰V⁶⁹⁰K⁷⁰⁰WR⁷¹⁰K⁷²⁰SP⁷³⁰VS⁷⁴⁰VASA⁷⁵⁰L⁷⁶⁰V⁷⁷⁰GL⁷⁸⁰ES⁷⁹⁰GV⁸⁰⁰CAS⁸¹⁰GAA⁸²⁰SD⁸³⁰V⁸⁴⁰G⁸⁵⁰ACP