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1
29 TTAGTACCGATATTTCCGCGCAGTGGTGTGATAAGTGCTACAGCTTGGGCTATTGTGGATTATCTCTTTCTTCGCTGAAACATTCTGTTTCGAGGCGCC
128 ATGGGGAAAGACTACTACAAAATCCTTGGTGTGCCAAGAATGCTGCTGATGACGACATAAAGAAAGCTTACCGTAAACTTGCTCTTAAAGTATCATCCG
1 M G K D Y Y K I L G V A K N A A D D D I K K A Y R K L A L K Y H P
227 GATAAGAACAAGACTGCTAGTCTGAAAGAACGCTTCAAGGAAGTAGCTGAGGCTTATGAAGTTTCAAGTAAAGAGAAAGCGAGAAGTGTACGACCAA
34 D K N K T A S A E E R F K E V A E A Y E V L S D K E K R E V Y D Q
326 TATGGTGAAGGGATTGAAGGGTGGAGCTGGAGGCATGGGTGGTGGCCAGTGGAGCTCAAGGAGGATTCTTACTCATACCATGGTGATCCTAGA
67 G E E G L K G G A G G M G G G S G A Q G G F S Y S Y H G D P R
425 GCAACATTTGCTCAATTTTGGAGCCAGCAGCCATTCCARACTTTCTTTGATCTGGGCGGATCAGGTGGAATAGAAATGTTTTCCATGAAGATGAC
100 A T F A Q F F G A S S P F Q T F F D L G G S G G N R M F F H E D D
524 ATGGACATGGATATGGATCCCTTCTTCAATAGGCATCGGAGGCCAACCGACCTGGTGGCCCTGGAGGTGCCTTCAGATCTCATTCAACATCCAT
133 M D M D M D P F S S I G I G G N R P G G P G G A F R S H S F N I H
623 GGGAACCAAGCAAGGAATGCAAAAGACAAAATGCAGGATCCTCCATTTGAACATGATCTATATGTCACTCTTGAAGACATTTGAAAGGCTGCCACCAAG
166 G N G A R N A K D K M G D P P I E H D L Y V T L E D I L K G C T K
722 AAAATGAAGATTTCCAGAAGAGTCTCCAGCCTGATGGATCATCAAGAAAAGAAAGATAAAGTCTTGAATCATCAGTGTCAAACCTGGCTGGAAAGCTGGC
199 K M K I S R R V L Q P D G S S R K E D K V L T I S V K P G W K A G
821 ACAAGATAACGTTCCAGAAAGAGGGAGATCAAGCAAGAAACAAGATCCCTGCAGACATTGTCTTCAATCATCAGGGATAAGCCCTCATCTCAGTTCAAG
232 T K I T F Q K E G D G A R N K I P A D I V F I I R D K P H P Q F K
920 CGGAAAGGATCTGACATCAGATACACAGCTAAAATATCTCTTAAAGAGGCACCTGTGGTATCAGGATAGAAGTACCAACCCCTGACTGGAGAGAGGATC
265 R E G S D I R Y T A K I S L K E A L C G I R I E V P T L T G E R I
1019 CCTGTGAATCTTACTCACGAAATCATCAACCAACCAAGTGAAGAAATCCAAGGTTATGGACTGCCTTTCCCTAAAGAGCCAACCCGCAAGGAGAT
298 P V N L T H E I I K P T T V K R I Q G Y G L P F P K E P T R K G D
1118 CTTCTGGTTTCTTTGATATTCAGTTCCTCCGACAATTTATGTCAAAGTGCCAAAGACATCCTATTTGATGCTCTCCCTTGAGCTGGATTATTGATATCT
331 L L V S F D I Q F P D N L C Q S A K D I L F D A L P *
1217 TTAAGTGTATGTTGCCCTGCAATGCTGTAACACTAGTACTTTGAAACAATACAGGCCAAGTGATGTGAGGCATAATTGAAAAAAAAAAAA

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Appendix D. The characteristic conserved DnaJ domain for Hsp40 is underlined. The four helices and a loop region constitute the DnaJ domain are shown in green boxes (Qian, 1996). The highly conserved HPD motif which is responsible for binding to HSP70 and regulation of the ATP hydrolytic cycle of Hsp70 (Qiu *et al.* 2006) is red and underlined.