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1          AGTTCATCCCGGCATTCCCTGCGACTGAGAGTTCTGTGC GCGTTCAAAGCGATCAACAACGAGTCGAATCTGAGTGT
80 GCCTTACGATTTTCTGAGCAAAGTTCTCAAGCAGAGTCTACTTCAACACTTACTTCTACTCCCGTTTCATCTGCACATCTTCGCTTCGTTAACAGTCAA
179 ATGTCCTCGTTGCCCTACATCCTGAGCGAGCTGCACGACATGTCCGCGCCCTGGACGGCCGGCGCCACGGCCCGCGCTGGGAGCGCGAGCTACGGC
1  M S L L P Y I L S E L H D M S A A L D G R R H G P R W E R D D Y G
278 CTCCTCGACGACCTGCTCAGTACCCGACGTCCACCCGCCCCCTCGCACCCACCCCGCGCCCTGCTGCGCTCGTGGACCTGGACACCCCGAGCAC
34  L L D D L L L T Y R D V V H P A L A P P R G L L R L V D L D D P E H
377 GTCCCGCCCAACCAACCTCGTATCCGCGCCGACACCTGCTGAGGCGCCAGCTGTCCGCGCCCGCCCGCGCCCGCCAGGAGCTGCGTCAGCGGAGG
67  V P A H H H L V I R P R H L L R R Q L S A P A R R A Q E L R Q R R
476 CAGCAGCAGCAGGTCAAGGAGGCCCAAGAAAGGACGACGACGGCTGCTCATCAACGTGGACGTGCAACAGTTCCCTCCCGAGGAGCTGCTCCGTGCAA
100 Q Q Q Q V K E A A K K D D D G L L I N V D V Q Q F L P E E L S V Q
575 GTTCTCAAGGACCAGGGCTGCGTCTGCTGGAGGGCAAGCAGGAGCGGCCGACGAGCAGGGTACGTCCAGCGCCAGTTACGCGCCGCTACAAG
133 V L K D Q G C V V V E G K H E E R P D E H G Y V Q R Q F T R R Y K
674 CTGCCCGCCACGTGGACCCAGACTCCGTCACCTCCAAGCTCACGTCCGACGGCTCCTGCAGGTGACYGCGCCAGGAGGGAGGCCCTCCCGCCCCG
166 L P A H V D P D S V T S K I T S D G V I Q V T A P R R E A L P A P
773 AAGGAGAACGTCCGGCACATCACCATCACCCAGAGCGACCACCTGCGCTCAAGGACGCCGCGGAGGAGGCGCAGACTGTCCACCCAAAGACAAGAA
199 K E N V R H I T I T Q S D H P A V K D A A E E A Q T V P P K D K K
872 GCGGAGGAGCCAGTCTGTCGCAAGGACAAGAGAGAGTCCGAGCATCGAAAGTGAAGCTGTGGTTGTTGGAGCCTGAGGCATGAACCATTCGATGTTTTAC
232 A E E P V V G A C K D K R E S S I E S E A V V V G A *
971 GTTTTATTGTATGCGTCTTTTGAACCTACTTATTTTATTTATGTTTTAGTGAAGTTTRATTCCTCATTACATACGTTCTATTGCGACTGATTTGTG
1060 TTCTGTTTTGAAATAGTACGTAATAATTTAATTTTCTTAATTTTATGACAAGCGCAGTGTGAGTCTTCCACCTTGTGTGATTTAATTTCAATAAATG
1159 GCAAAATCTGTAAAAA

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Appendix E. The complete cDNA sequence and predicted amino acid sequence of *Fo-HSP28.9*. The conserved α -crystallin domain is underlined. Seven β -strands that constitute the α -crystallin are shaded in green. The conserved sequence motif [K/R]X[I/V]X[I/V] is boxed in red.