

Amino acid sequences of wild type APC

MAAASYDQLLKQVEALKMENSNLRQELEDNSNHLTKLETEASNMKEVLKQL
QGSIEDEAMASSGQIDLLERLKLNLDSNFPGVKLRSKMSLSYGSREGSVS
SRSGECSPVPMGSPRRGFVNGSRESTGYLEELEKERSLLLADLDKEEKEKDW
YYAQLQNLTKRIDLPLTENFSLQTDMTTRQLEYEARQIRVAMEEQLGTCQDM
EKRAQRRIARIQQIEKDILRIRQLLQSQATEAERSSQNKHETGSHDAERQNEGQ
GVGEINMATSGNGQGSTTRMDHETASVLSSSSTHSAPRRLTSHLGTKVEMVY
SLLSMLGTHDKDDMSRTLLAMSSSQDSCISMRQSGCLPLLIQLLHGNDKDSV
LLGNSRGSKEARARASAAALHNIIHSQPDDKRGRRREIRVLHLEQIRAYCETCW
EWQEAHEPGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNELGGL
QAIAELLQVDCEMYGLTNDHYSITLRRYAGMALTNLTFGDVANKATLCSMKG
CMRALVAQLKSESEDLQQVIASVLRNLSWRADVNSKKTLEVGSVKALMEC
ALEVKKESTLKSIVLSALWNLSAHCTENKADICAVDGALAFVGLTYRSQTN
TLAIIESGGGILRNVSSLIATNEDHRQILRENNCLQTLLQHLKSHSLTIVSNACG
TLWNLSARNPKDQEALWDMGAVSMLKNIHSHKHKMIAMGSAAALRNLMAN
RPAKYKDANIMSPGSSLP SLHVRKQKALEAELDAQHLSETFDNIDNLSPKASH
RSKQRHKQSLYGDYVFDNTRHDDNRSDNFNTGNMTVLSPYLNTTVLPSSSSS
RGLDSSRSEKDRSLERERGIGLGNYPATENPGTSSKRGLQISTTAAQIAKVM
EEVSAIHTSQEDRSSGSTTELHCVTDERNALRRSSAAHTHSNTYNFTKSENSN
RTCSMPYAKLEYKRSSNDSLNSVSSSDGYGKRGQMKPSIESYSEDDSKFCSY
GQYPADLAHKIHSANHMDDNDGELDTPINYSKYSDQLNSGRQSPSQNERW
ARPKHIIEDEIKQSEQRQSRNQSTTYPVYTESTDDKHLKFQPHFGQQECVSPY
RRRGANGSETNRVGSNHGINQNVQSCLQEDDYEDDKPTNYSERYSEEEQHE
EEERPTNYSIKYNEEKRHVDQPIDYSLKYATDIPSSQKQSFSFSKSSSGQSSKTE
HMSSSENTSTPSSNAKRQNQLHPSSAQSRSGQPQKAATCKVSSINQETIQTYC
VEDTPICFSRCSSSLSSSAEDEIGCNQTTQEADSANTLQIAEIKEKIGTRSAEDP
VSEVPAVSQHPRTKSSRLQGSSLSSESARHKAVEFSSGAKSPSKSGAQTPKSPPE
HYVQETPLMFSRCTSVSSLDSFESRSIASSVQSEPCSGMVSGIISPSDLPDSPGQ
TMPPSRSKTPPPPPQTAQTKREVPKNKAPTAEKRESGPKQAAVNAAVQRVQVL
PDADTLLHFATESTPDGFSCSSSLSALSLEDPFIQKDVELRIMPPVQENDNGNE
TESEQPKESNENQEKEAEKTIDSEKDLLDDSDDDIEILEECIISAMPTKSSRKA
KKPAQTASKLPPPVARKPSQLPVYKLLPSQNRLLQPQKHVSFTPGDDMPRVYCV
EGTPINFSTATSLSDLTIESPPNELAAGEGVRGGAQSGEFEKRD TIPTTEGRSTDE
AQGGKTSSVTIPELDDNKAEEGDILAECINSAMPKGKSHKPFRVKKIMDQVQ
QASASSAPNKNQLDGKKKKKPTSPVKPIPNQNTYRTRVRKNADSKNNLNAER
VFSDNKDSKKQNLKNNKVFNDKLPNNEDRVRGSAFDSPHHYTPIEGTPYCF
SRNDSLSSLD FDDDDVDLSREKAELRKAKENKESEAKVTSHTELTSNQQSAN
KTQAIQKQPINRGQPKPILQKQSTFPQSSKDIPDRGAATDEKLQNF AIENTPVCF
SHNSSLSSLDIDQENNNKENEPIKETEP PDSQGEPSKPQASGYAPKSFHVEDT
PVCFSRNSSLSSLSIDSEDDLQECISSAMPKKKPSRLKGDNEKHSPRNMGGI
LGEDLTLDLKD IQRPDSEHGLSPDSENFWDKAIQEGANSIVSSLHQAAAAACL
SRQASSDSDSILSLKSGISLGSPFHLTPDQEEKPFTSNKGPRILKPGEKSTLETKK
IESESKGIKGGKKVYKSLITGKVRNSENSEISGQMKQPLQANMPSISRGRMIHIP
GVRNSSSSTSPVSKKGPPLKTPASKSPSEGQTATTSPRGAKPSVKSELSPVARQT

SQIGGSSKAPSRSGSRDSTPSRPAQQPLSRPIQSPGRNSISPGRNGISPPNKLSQL
PRTSSPSTASTKSSGSGKMSYTSPGRQMSQQNLTKQTGLSKNASSIPRSESASK
GLNQMNNGNGANKKVELSRMSSTKSSGSESDRSERPVLVRQSTFIKEAPSPTL
RRKLEESASFESLSPSSRPASPTRSQAQTPVLSPSLPDMSLSTHSSVQAGGWRK
LPPNLSPTIEYNDGRPAKRHDIARSHSESPSRLPINRSGTWKREHSKHSSSLPRV
STWRRTGSSSSILSASSESEKAKSEDEKHAVNSISGTKQSKENQVSAKGTWRKI
KENEFSPTNSTSQTIVSSGATNGAESKTLIYQMAPAVSKTEDVWVRIEDCPINNP
RSGRSPTGNTPPVIDSVSEKANPNIKDSKDNQAKQNVGNGSVPMRTVGLENR
LNSFIQVDAPDQKGTEIKPGQNNPVPVSETNESSIVERTPFSSSSSSKHSSPSGT
AARVTPFNYNPSPRKSSADSTSARPSQIPTPVNNNTKKRDSKTDSTESSGTQSP
KRHSGSYLVTSV

Amino acid sequences of c.3676A>T mutant of APC

MAAASYDQLLKQVEALKMENSNLRQELEDNSNHLTKLETEASNMKEVLKQL
QGSIEDEAMASSGQIDLLERLKELNLDSSNFPGVKLRSKMSLSYGSREGSVS
SRSGECSPVPMGSFPRRGFVNGSRESTGYLEEELEKERSLLLADLDKEEKEKDW
YYAQLQNLTKRIDLPLTENFSLQTDMTTRRQLEYEARQIRVAMEEQLGTCQDM
EKRAQRRIARIQQIEKDILRIRQLLSQATEAERSSQNKHETGSHDAERQNEGQ
GVGEINMATSGNGQGSTTRMDHETASVLSSSSTHSAPRRLTSHLGTKVEMVY
SLLSMLGTHDKDDMSRTLLAMSSSQDSCISMRQSGCLPLLIQLLHGNDKDSV
LLGNSRGSKEARARASAALHNIIHSQPDDKGRGRREIRVLHLEQIRAYCETCW
EWQEAHEPGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNELGGL
QAIAELLQVDCEMYGLTNDHYSITLRRYAGMALTNLTFGDVANKATLCSMKG
CMRALVAQLKSESEDLLQQVIASVLRLNSWRADVNSKKTLEVGSVKALMEC
ALEVKKESTLKSIVLSALWNLSAHCTENKADICAVDGALAFLVGTLYRSQTN
TLAIIESGGGILRNVSSLIATNEDHRQILRENNCLQTLLQHLKSHSLTIVSNACG
TLWNLSARNPKDQEALWDMGAVSMLKNLIHSHKHKMIAMGSAAALRNLMAN
RPAKYKDANIMSPGSSLP SLHVRKQKALEAELDAQHLSETFDNIDNLSPKASH
RSKQRHKQSLYGDYVFDNTRHDDNRSDNFNTGNMTVLSPYLNTTVLPSSSSS
RGLDSSRSEKDRSLERERGIGLGNYPATENPGTSSKRGLQISTTAAQIAKVM
EEVSAIHTSQEDRSSGSTTELHCVTDERNALRRSSAAHTHSNTYNFTKSENSN
RTCSMPYAKLEYKRSSNDLSNSVSSSDGYGKRGQMKPSIESYSEDDSKFCSY
GQYPADLAHKIHSANHMDDNDGELDTPINYSKYSDQLNSGRQSPSQNERW
ARPKHIIEDEIKQSEQRQSRNQSTTYPVYTESTDDKHLKFQPHFGQQECVSPY
RSRGANGSETNRVGSNHGINQNVSQLCQEDDYEDDKPTNYSERYSEEEQHE
EEERPTNYSIKYNEEKRHVDQPIDYSLKYATDIPSSQKQSFSSKSSSGQSSKTE
HMSSSSSENTSTPSSNA*

Amino acid sequences of c.4402A>T mutant of APC

MAAASYDQLLKQVEALKMENSNLRQELEDNSNHLTKLETEASNMKEVLKQL
QGSIEDEAMASSGQIDLLERLKELNLDSSNFPGVKLRSKMSLSYGSREGSVS
SRSGECSPVPMGSFPRRGFVNGSRESTGYLEEELEKERSLLLADLDKEEKEKDW
YYAQLQNLTKRIDLPLTENFSLQTDMTTRRQLEYEARQIRVAMEEQLGTCQDM
EKRAQRRIARIQQIEKDILRIRQLLSQATEAERSSQNKHETGSHDAERQNEGQ

GVGEINMATSGNGQGSTTRMDHETASVLSSSTHSAPRRLTSHLGTKVEMVY
SLLSMLGTHDKDDMSRTLLAMSSSQDSCISMRQSGCLPLLIQLLHGNDKDSV
LLGNSRGSKEARARASAALHNIIHSQPDDKRGRRREIRVLHLLLEQIRAYCETCW
EWQEAHEPGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNELGGL
QAIAELLQVDCEMYGLTNDHYSITLRRYAGMALTNLTFGDVANKATLCSMKG
CMRALVAQLKSESEDLQQVIASVLRNLSWRADVNSKKTLEVGSVKALMEC
ALEVKKESTLKSIVLSALWNLSAHCTENKADICAVDGALAFVLVGTLTYSQTN
TLAIIESGGGILRNVSSLIATNEDHRQILRENNCLQTLLQHLKSHSLTIVSNACG
TLWNLSARNPKDQEALWDMGAVSMLKNLIHSHKHKMIAMGSAAALRNLMAN
RPAKYKDANIMSPGSSLP SLHVRKQKALEAELDAQHLSETFDNIDNLSPKASH
RSKQRHKQSLYGDYVFDNTRHDDNRSDNFNTGNMTVLSPYLNTTVLPSSSSS
RGS LDSSRSEKDRSLERERGIGLGNYHPATENPGTSSKRGLQISTTAAQIAKVM
EEVSAIHTSQEDRSSGSTTELHCVTDERNALRRSSAAHTHSNTYNFTKSENSN
RTC SMPYAKLEYKRSSNDLSNSVSSSDGYGKRGQMKP SIESYSEDDSKFCSY
GQYPADLAHKIHSANHMDDNDGELDTPINYSLKYSDEQLNSGRQSPSQNERW
ARPKHIEDEIKQSEQRQSRNQSTTYPVYTESTDDKHLKFQPHFGQQECVSPY
RSRGANGSETNRVGSNHGINQNVSQLCQEDDYEDDKPTNYSERYSEEEQHE
EEERPTNYSIKYNEEKRHVDQPIDYSLKYATDIPSSQKQSFSFSKSSSGQSSKTE
HMSSSENTSTPSSNAKRQNQLHPSSAQSRSGQPQKAATCKVSSINQETIQTYC
VEDTPICFSRCSSLSLSSAEDEIGCNQTTQEADSANTLQIAEIKEKIGTRSAEDP
VSEVPAVSQHPRTKSSRLQGSSLSESARHKAVEFSSGAKSPSKSGAQTPKSPPE
HYVQETPLMFSRCTSVSSLDSFESRSIASSVQSEPCSGMVSGIISPSDLPDSPGQ
TMPPSRSKTPPPPPQTAQTKREV PKNKAPTAEKRESGP*