

Product datasheet for TP318470

Collagen VII (COL7A1) (NM_000094) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human collagen, type VII, alpha 1 (COL7A1), full length, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218470 representing NM_000094 Red =Cloning site Green =Tags(s)

MTLRLLVAALCAGILAEAPRVRAQHRERVTCTRLYAADIVFLLDGSSSIGRSNFREVRSFLEGLVLPFSG
 AASAQGVRFATVQYSDDPRTEFGLDALGSGGDVIRAIRESYKGGNTRTGAAILHVADHVFLPQLARPGV
 PKVCILITDGKSQDLVDTAAQRLKGQGVKLFVAVGKINADPEELKRVASQPTSDFFVFVNDFSILRLLPL
 VSRVCTTAGGVPVTRPPDDSTSAPRDLVLEPSSQSLRVQWTAASGPVTGYKVQYTPLTGLGQPLP
 QEVNVPAGETSVRLRGLRPLTEYQVTVIALYANSIGEA VSGTARTTALEGPELTIQNTTAHSLVAVRSV
 PGATGYRVTWVLSGGPTQQQELGPGQGSVLLRDLEPGTDYEVTVSTLFGRSVGPATSLMARTDASVEQT
 LRPVILGPTSILLSWNLVPEARGYRLEWRRETGLEPPQKVLPSPDVTRYQLDGLQPGTEYRLTYLLE
 HEVATPATVPTGPELVPVPTDLQATELPGQVRVSWSPVPGATQYRIIVRSTQGVERTLVLPGSQTAF
 DLDDVQAGLSYTVRVSARVGPREGSASVLTVRREPETPLAVPGLRVVSDATRVRVAVGVPVPGASGFRIS
 WSTGSGPESSQTLPPDSTATDITGLQPGTTYQVAVSVLRGREGPAAVIVARTDPLGPVVRTVHVTVQASS
 SVTITWTRVPGATGYRVSWHSAHGPEKSQLVSGEATVAELDGLEPDTEYTVHVRAHVAGVDGPPASVVR
 TAPEPVGRVSRQLQILNASSDVLRTWVGVTGATAYRLAWGRSEGGPMRHQILPGNTDSAEIRGLEGGVSY
 SVRVTALVGDREGTPVSIVVTTPEAPPALGTLHVQRGEHSLRLRWEVPVRAQGFLHWQPEGGQEQR
 VLGPELSSYHLDGLEPATQYRVLSVLGPAGEGPSAEVARTESPRVPSIELRVVDTSIDSVTLAWTPVS
 RASSYILSWRPLRGGQVEVPGSPQTLPGISSQRVTGLEPGVSYIFSLTPVLDGVRGPEASVTQTPVCP
 GLADVWFLPHATQDNAHRAEATRRVLERLVLALGPLGPQAVQVGLLSYSHRPSPLFPLNGSHDLGILQR
 IRDMPYMDPSGNNLGTAVVTAHRYMLAPDAPGRRQHVPVGMVLLVDEPLRGDIFSPIREASGLNVML
 GMAGADPEQLRRLAPGMDSVQTFFAVDDGPSLDQAVSGLATALCQASFTTQPRPEPCPVYCPKGQKGE
 EMGLRGQVGGPPGDPGLPGRTGAPGPQGGPSATAKGERGFPADGRPGSPGRAGNPGTPGAPGLKGS
 PLPGPRGDPGERGPRGPKGEPGAPGQVIGGEGPGLPGRKGDGPGSGPPGPRGPLGDPGRGPPGLP
 GTAMKGDKGDRGERGPPGPEGGIAPGEPGLPGLPGSPGPQGPVGGPKKGEKGDSEDPGLPGQPG
 SPGEQGP GPPGAIGPKGDRGFPGPLGEAGEKGERGPPGPAGSRGLPGVAGRPGAKGPEGPPGPTGR
 QGEKGEPRGPDPAVVGPAVAGPKGEKGDVGPAGPRGATGVQGERGPPGLVLPGDGPKGDPGDR
 GPIGLTGRAGPPGDSGPPGEKGDGPRGPPGVPVGRPRDGEVGEKGDGPPGDPGLPGKAGERGLR
 GAPGVRGVPVGEKGDQGDGPPDGRNGSPGSSGPKGDRGEPGPPGPPGRLVDTGPGAREKGE
 PGDRGQEGPRGPKGDPGLPGAPGERGIEGF



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RGPPGPQGDPGVVRGPAGEKGDGRGPPGLDGRSGLDGKPGAAGPSGPNGAAGKAGDPGRDGLPGLRGEQGLP
 GPSGPPGLPGKPGEDGKPLNGKNGEPGDPGEDGRKGEKGD SGASGREGRDGPKGGERGAPGILGPQGPPG
 LPGPVGPPQGFPVPGGTGPKGDRGETGSKGEQGLPGERGLRGEPSVNVDRLLLETAGIKASALREIV
 ETWDESSGSFLVPERRRGPKGDSGEQPPGKEGPIGFPGERGLKGD RDGPQGPPLALGERGPPGPS
 GLAGEPGKPGIPGLPGRAGGVGEAGRPGERGERGEKGERGEQGRDGPPLGTPGPPGPPGPKVSVDEPG
 PGLSGEQPPGLKGAKGEPGSNGDQPKGDRGVPGIKGDRGEPGPRGQDGNPGLPGERGMAGPEGKPLQ
 GPRGPPGPVGGHGDPPGAPGLAGPAGPQGPSGLKGEGETGPPGRGLTGPTGAVGLP GPPGPSGLVGP
 QGSPGLPGQVGETGKPGAPGRDGASGKDGRGSPGVGSPGLPGPVGPKGEPGPTGAPGQAVVGLPGA
 KEGAPGGLAGDLVGEPAKGDRLPGPRGEKGEAGRAGEPGDPGEDGQKGA PGPKGFKGDPGVGVGSPG
 PPGPPGVKGDGLPGLPGAPGVVGFPGQTGPRGEMGQPGPSGERLAGPPGREGIPGLGPPGPPGSVGP
 PGASGLKGDKGDGPVGLPGPRGERGEPGIRGEDGRPGQEGPRGLTGPPGSRGERGEKGDVGSAGLKGDKG
 DSAVILGPPGPRGAKGDMGERGPRGLDGDGKPRGDNDPDKGSKGEPGDKGSAGLPGLRGLLGPQQPG
 AAGIPGDPGSPGKDVGPGRGKGDVGMGRGLKGERGVKGACGLDGEKGDKGEAGPPGRPLAGHKGE
 MGEPGVPQSGAPGKEGLIGPKGDRGFDGQPGPKGDQGEKGERGTPGIGGFPGPSNDGSAGPPGPPGSV
 GPRGPEGLQQKGERGPPGERVVGAPGVGAPGERGEQGRPGPAGPRGEKGEAALTEDDIRGFVRQEMSQ
 HCACQQGFASGSRPLPSYAADTAGSQLHAVPLRVSHAEEEEERVPPEDEYSEYSEYSVEEYQDPEAPW
 DSDDDPCSLPLDEGSCTAYTLRWYHRAVTGSTEACHPFVYGGCGGNANRFGTRECERRCPRRVQSQGTG
 TAQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	Myc-DDK
Predicted MW:	295.22 kDa
Concentration:	>0.05 µg/µL as determined by microplate Bradford method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000085
Locus ID:	1294
UniProt ID:	Q02388 , Q59F16
RefSeq Size:	9272
Cytogenetics:	3p21.31
RefSeq ORF:	8832
Synonyms:	EBD1; EBDCT; EBR1; NDNC8

Summary: This gene encodes the alpha chain of type VII collagen. The type VII collagen fibril, composed of three identical alpha collagen chains, is restricted to the basement zone beneath stratified squamous epithelia. It functions as an anchoring fibril between the external epithelia and the underlying stroma. Mutations in this gene are associated with all forms of dystrophic epidermolysis bullosa. In the absence of mutations, however, an acquired form of this disease can result from an autoimmune response made to type VII collagen. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Purified recombinant protein COL7A1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.