

## Product datasheet for RC224264

### Collagen VI (COL6A3) (NM\_057166) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen VI (COL6A3) (NM_057166) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL6A3
Synonyms:	BTHLM1; DYT27; UCMD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC224264 representing NM_057166 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGAAACATCGGCACTTGCCTTAGTGCCGTCCTTTGCCTCTTCTCAGGCTTTCCTACAAC  
ATGCCAGCAGCAGCAAGCAGTCATTGAAGTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATC  
TGCACTGGGACTGGCCAACTTCAATGCCATCCGAGACTTCATTGCTAAAGTCATCCAGAGGCTGAAATC  
GGACAGGATCTTATCCAGGTGGCAGTGGCCAGTATGCAGACACTGTGAGGCCTGAATTTATTTCAATA  
CCCATCCAACAAAAGGGAAAGTCATAACCGCTGTGCGGAAAATGAAGCCCTGGACGGCTCGGCCCTGTA  
CACGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATTCACGAGTTCAGCCGGCTACCGGGCTGCCGAG  
GGGATTCCTAAGCTTTTGGTGTGATCACAGGTGGTAAGTCCCTAGATGAAATCAGCCAGCCTGCCCAGG  
AGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTCCGATCAGGCTGAGCTGGAAGA  
GATCGCTTTCGACTCCTCCCTGGTGTTCATCCAGCTGAGTTCGAGCCGCCCATTTGCAAGGCATGCTG  
CCTGGCTTGTGTCACCTCTCAGGACCTCTCTGGAACCCCTGAAGAGAGCAAGCGAGACATTCTGTTCC  
TCTTTGACGGCTCAGCCAATCTTGTGGCCAGTCCCTGTTGTCGCTGACTTTCTACAAGATTATCGA  
TGAGCTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGCAAGGTGGAG  
TCCCGTTTTGATGAGCACAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGG  
GCAAAGCCCTCAACCTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTGTGAAGTCTGCTGGCAG  
CCGGATCGAGGATGGAGTCTCAGTTCCTGGTGTGCTGGTCCGAGGAAGGTCACTGACCGTGTGGAT  
GGGCCAGCAAGTAACCTGAAGCAGAGTGGGGTTGTGCCTTTCATCTTCCAAGCCAAGAACCGAGACCCTG  
CTGAGTTAGAGCAGATCGTGTCTCCAGCGTTTATCCTGGCTGCAGAGTCGCTTCCAAGATTGGAGA  
TCTTCATCCACAGATAGTGAATCTTAAAATCAGTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAA  
AAGGACGTGGTGTCTGCTTGTGATGGCTCTGAGGGCGTCAAGGAGCGCTCCCTCTGTTGAAAGAGTTTG  
TCCAGAGAGTGGTGGAAAGCCTGGATGTGGCCAGGACCGGTCCGCGTGGCCGTTGGTGCAGTACAGCGA  
CCGGACCAGGCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGACGTGCTCAACGCTGTCCGCCAG  
CTGACCCTGCTGGGAGGGCCGACCCCAACACCGGGGCCGCCCTGGAGTTTGTCTGAGGAACATCCTGG



[View online >](#)

TCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACGGCCGACAGGTC  
 TGGGGATGATGTGCGGAACCCCTCCGTGGTCGTGAAGAGGGGTGGGGCTGTGCCATTGGCATTGGCATC  
 GGGAAACGCTGACATCACAGAGATGCAGACCATCTCTTATCCCGGACTTTGCCGTGGCCATTCCCACCT  
 TTCGCCAGCTGGGGACCGTCCAACAGGTCATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGAG  
 CAGGCTGCAGCCGGTGTGCAGCCTCTACCGAGCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTC  
 ATCGATGGGTCCCAAAGTGCCGGCCTGAGTTCAGTACGTTCCGACCCTCATAGAGAGGCTGGTTGACT  
 ACCTGGACGTGGGCTTTGACACCAACCCGGGTGGCTGTCATCCAGTTCAGCGATGACCCCAAGGTGGATT  
 CCTGCTGAACGCCATTCCAGCAAGGATGAAGTGCAGAACCGGGTGCAGCGGCTGAGGCCCAAGGGAGGG  
 CGGCAGATCAACGTGGGCAATGCCCTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTGGGGAGCC  
 GCATTGAAGAGGGCGTCCCGCAGTTCCTGGTCTCATCTCGTCTGGAAAGTCTGACGATGAGGTGGACGA  
 CCCGGCGGTGGAGCTCAAGCAGTTCCTGGTGGCCCTTTCACGATCGCCAGGAACGCAGACCAGGAGGAG  
 CTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTTCTCGGTGAGCACCTCCGGGAGCTGCCAGCCTGG  
 AGCAGAAACTGCTGACGCCATCACGACCCTGACCTCAGAGCAGATCCAGAAGCTTTAGCCAGCACTCG  
 CTATCCACCTCCAGCAGTTGAGAGTGATGCTGCAGACATTGTCTTCTGATCGACAGCTCTGAGGGAGTT  
 AGGCCAGATGGCTTTCACATATTCGAGATTTTGTAGCAGGATTGTTTCAAGACTCAACATCGGCCCA  
 GTAAGTGAAGTGGGGTTCGTGCAATTCAGCAATGATGTCTTCCAGAACTTCTATCTGAAAACCTACAG  
 ATCCCAGGCCCGGTGCTGGACGCCATACGGCGCCTGAGGCTCAGAGGGGGTCCCCACTGAACACTGGC  
 AAGGCTCTCGAATTTGTGGCAAGAAACCTTTTGTAAAGTCTGCGGGGAGTCGCATAGAAGACGGGGTGC  
 CCCAACACCTGGTCTGGTCCCTGGTGGAAAATCCCAGGACGATGTGTCCAGGTTCCGCCAGGTGATCCG  
 TTCCTCGGGCATTGTGAGTTTAGGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATCACC  
 AATGACCCAGACTGGTCTTACAGTGCAGAGTTCAGAGAGCTTCCCAACATAGAAGAAAGATCATGA  
 ACTCGTTGGACCCTCCGACCCACTCCTGCACCTCCAGGGTGGACACCCCTCCTCCTTACGCCCAGA  
 GAAGAAGAAAGCAGACATTGTGTTCTCTGTTGGATGGTTCATCAACTTCAGGAGGGACACTTCCAGGAA  
 GTGCTTCTGTTTTGTCTGAAATAGTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTG  
 TCCAGTACAACCTGACCCCACTGACGAATTTCTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGA  
 CGCCATCAACAAAGTGGTCTACAAAGGGGGAAGACACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGG  
 GTAACCACCTTTGTGCCTGAGGCAGGCAGCCGCCTGGACCAGCGGGTCCCTCAGATTGCCTTTGTGATCA  
 CGGGAGGAAAGTCCGTGGAAAGATGCACAGGATGTGAGCCTGGCCCTCACCCAGAGGGGGTCAAAGTGT  
 TGCTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGAAAGATAGCGTCCAACAGCGCCACAGCGTTC  
 CGCGTGGCAACGTCCAGGAGCTGTCCGAAGTGCAGGAGCAAGTTTTGAAACTTTGCATGATGCGATGC  
 ATGAAACCTTTGCCCTGGTGAATGATGCTGCCAAAGCTTGTAACTGGATGTGATTCTGGGTTTGA  
 TGGTTCTAGAGACCAGAATGTTTTGTGGCCAGAAAGGGTTCGAGTCCAAGGTGGACGCCATCTTGAAC  
 AGAATCAGCCAGATGCACAGGTCAGCTGCAGCGGTGGCCGCTCGCCACCGTGGTGTGTCAGTGGTGG  
 CCAACACGCCCTCGGGCCGGTGGAGGCCTTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGTT  
 CCGGAACATGCGCAGCCAGCACCCCTACGTCTCACGGAGGACACCCCTGAAGGTCTACCTGAACAAGTTC  
 AGACAGTCTCGCCGGACAGCGTGAAGGTGGTCATTTACTGATGGAGCAGACGGAGATCTGGCTG  
 ATTTACACAGAGCATCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGCCTTGAACG  
 AGTGGTCAACTTGGAGCGGCTAATGCATCTGGAGTTTGGCGAGGGTTTATGATGACAGGCCCTTGAGG  
 CTTAACTTGTGACTTTGATTATGAAGTGCAGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGTGTTG  
 GGGTTCCCTGCAAGTGTCTGGGCAGAGGGGAGACCGCGGCCCATCGGCAGCATCGGGCCAAAGGGTAT  
 TCTGGAGAAGACGGCTACCGAGGCTATCCTGGTGTGAGGGTGGACCCGGTGGAGCGTGGTCCGCTGGT  
 GTGAACGGCACTCAAGTTCAGGGCTGCCCGGGCCAGAGAGGAGTAAAGGGTCTCGGGGATCCCAG  
 GAGAGAAGGGCGAAGTAGGAGAAATGGACTGGATGGTCTGGATGGTGAAGATGGAGACAAAGGATTGCC  
 TGGTTCTTCTGGAGAGAAAGGGAATCCTGGAAGAAGGGTGATAAAGGACCTCGAGGAGAGAAAGGAGAA  
 AGAGGAGATGTTGGGATTCGAGGGGACCCGGTAACCCAGGACAAGACAGCCAGGAGAGAGGACCCAAAG  
 GAGAAACCGGTGACCTCGGCCCATGGGTGCCAGGGAGAGATGGAGTACCTGGAGACCTGGAGAAAC  
 TGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCGGAGCTAAGGGCAACAAGGGCGGTCTGGCCAG  
 CCGGGCTTTGAGGAGAGCAGGGGACCAGAGGTGCACAGGGCCAGCTGGTCTGCTGGTCTCCAGGGC  
 TGATAGGAGAACAAGGCAATTTCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGTCTCTGGAGAACGAGG  
 CAGAACCAGTCCACTGGGAAGAAAGGTGAGCCCGGAGAGCCAGGACAAAAGGAGGAATCGGGAACCGG  
 GGCCCTCGTGGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGGCAAAAAG  
 GAGAAAGAGGATTCCCTGGATACCCAGGACCAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAAC

AGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGAC  
CCTGGCTACCCAGGACCAGCTGGTCCCAAGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCC  
AAAGCATCAAAGATAAATGCCCTTGCTGTTACGGGCCCTGGAGTGCCCGTCTTCCCAACAGAAGTACG  
CTTTGCTTTAGACACCTCTGAGGGAGTCAACCAAGACACTTTCGGCCGGATGCGAGATGTGGTCTTGAGT  
ATTGTGAATGACCTGACCATTGCTGAGAGCAACTGCCACGGGGGCCCCGGTGGCTGTGGTCACCTACA  
ACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGGAAGTCGGTCTCTCTGGACAAGATTA  
GAACCTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCCATGTCGTTTGGCCAGGAAC  
ACATTTAAGCGTGTGAGGAACGGATTCCCTAATGAGGAAAAGTGGCTGTTTTCTTCAGCAACACACCCACAA  
GAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCTTGTTCTTAC  
AAGGCAGGAAGACCGGCAGCTCATCAACGCTTTCAGATCAATAACACAGCAGTGGGGCATGCGCTTGTC  
CTGCTGCAGGGAGAGACCTCACAGACTTCTGGAGAATGTCCTCACGTGTCATGTTGCTTGGACATCT  
GCAACATCGACCCATCCTGTGGATTTGGCAGTTGGAGGCCTTCTTCAGGGACAGGAGAGCGCAGGGAG  
CGATGTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCTGTTCCAGTTCAATGAG  
ATGAAGAAGTACATAGCGTACCTGGTCAAGCAACTGGACATGAGCCAGATCCCAAGGCCTCCAGCACT  
TCGCCAGAGTGGCAGTTGTGAGCAGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAA  
GGTGGAAATTCCTCTGACTGACTATGGCTCCAAGGAGAAGCTGGTGGACTTCTCAGCAGGGGAATGACA  
CAGTTGCAGGGAACAGGGCCTTAGGCAGTGCCATTGAATACACCATAGAGAATGCTTTGAAAGTGCCC  
CAAACCCACGGGACCTGAAAATTGTGGTCTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGA  
GGCCCAGAGAGTCATCTGCAGGCCAAATGCAAGGGCTACTTCTTCGTGGTCTGGGCATTGGCAGGAAG  
GTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCAAACGACGTCTTCTTCAAATTAGTGGACAAGT  
CCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTGTTGCCATCCTTCGTGAGCAGTAAAA  
TGCTTTTTACTTTGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGTCTACATCCAACCCAG  
TGACGACAACGAAGCCGGTACTACGACGAAGCCGGTGACCACCACAACAAAGCCTGTAAACCACCACAAC  
AAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAGCCGGCCCTGCGAAACCT  
GTGGCTGCCAAGCCTGTGGCCACAAAGATGGCCACTGTTAGACCCCCAGTGGCGTGAAGCCAGCAACCG  
CAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAAGCCCCCGCTGCTGCTGCAAAAACAGTGGC  
GACCAAGCCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCCACCACTAAGCCC  
ATGGTTAAGATGTCCCGTGAAGTCCAGGTGTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAGA  
GGGCTGAGCCCCCGGTCTTATTTTTATGACCTCACCGTCACTCAGCCATGATCAGTCCCTGGTTCT  
GAAGCAGAACCTCACGGTACGGACCGCTCATTGGAGGCTGCTCGCTGGCAGACATACCATGTGGCT  
GTGGTCTGCTACCTGAGGTCTCAGGTGAGGCCACCTACCACGGAAGTTTCAGTACAAAGAAATCTCAGC  
CCCCACCTCCACAGCCAGCAAGGTGAGTCTAGTTCAACCATCAATCTAATGGTGAACAGCAAGCATT  
GGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAAGACGAAGGAACTGCAGGGATTTTCATATTA  
TGGTACTATGATCCAAACACCAAAGCTGTGCAAGATTCTGGTATGGAGGTTGTGGTGGAAACGAAAA  
AATTTGGATCACAGAAAGAAATGTGAAAAGGTTTGGCTCTGTGCTCGCCAAACCCGGAGTCATCAGTGT  
GATGGGAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224264 representing NM\_057166  
 Red=Cloning site Green=Tags(s)

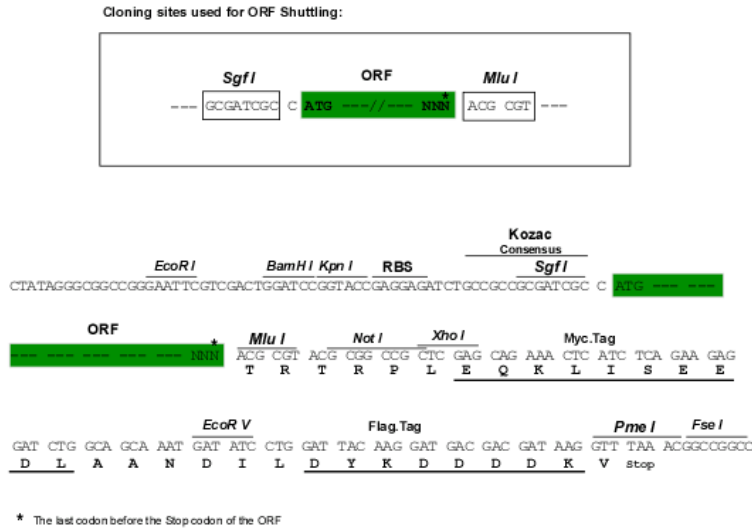
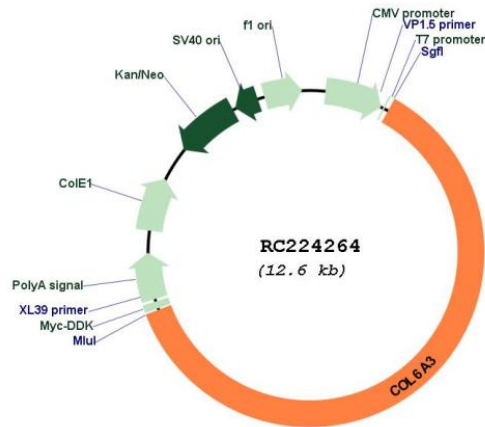
```

MRKHRHLPLVAVFCLFLSGFPTTHAQQQAVIEVNKRDI VFLVDGSSALGLANFN AIRDFAIAKVIQRLEI
GQDLIQVAVAQYADTVRPEFYFNTHPTKREVITAVRKMKPLDGSALYTGSA LDFVRNNLFTSSAGYRAAE
GIPKLLVLITGGKSLDEISQPAQELKRSSIMAF AIGNKGADQAELEEIAFDSSLVFIPAEFRAAPLQGML
PGLLAPLRTL SGTPEESKRDILFLFDGSANLVGQFPVVRDFLYKIIDELNVKPEGTRIAVAQYSDDVKVE
SRFDEHQSKPEILNLVKRMKIKTGKALNLGYALDYAQR YIFVKASAGSRIEDGVLQFLVLLVAGRSSDRVD
GPASNKQSGVVPFIFQAKNADPAELEQIVLSPAFILAAESL PKIGDLHPQIVNLLKSVHNGAPAPVSGE
KDVVFLLDGSEGVRS GFPLLEKVFQRVVESLDV GQDRVRVAVVQYSDRTRPEFYLN SYMNKQDVVNAV RQ
LTLGGPTPNTGAAL EFLRNILVSSAGSRIT EGV PQLLIVLTADRSGDDVRNPSVVVKRGGAVPIGIGI
GNADITEMQTI SFI PDFAVAIPTFRQLGT VQQV ISE RVTQLTREEL SRLQPVLQPLSPSGVGGKRDV VFL
IDGSQSAGPEFQYVRTLIERLVDYLDVGFDTTRVAVIQFSDDPKVEFLLNAHSSKDEVQNAVQRLRPKGG
RQINVGNAL EYVSRNIFKRPLGSRIEEGVPQFLVLISSGKSDDEVDPAVELKQFVAPFTIARNADQEE
LVKISLSP EYVFSVSTFRELPSLEQKLLTPI TTTL TSEQIQKLLASTRYPPP AVESDAADIVFLIDSEGV
RPDGF AHIRDFVSRIVRRLNIGPSKVRVGVVQF SNDVFP E FYLKT YRSQAPVLD A IRRRLR LRGGSPLNTG
KALEFVARNL FVKASAGSRIEDGV PQHLV LVLGGKSQDDVSRFAQVIRSSGIVSLGVGDRNIDRTELQ TIT
NDPRLVFTVREFREL PNIEERIMNSFGPSAATP APPGVDTPPPSRPEKKKADIVFLLDGSINFRRDSFQE
VLRVSEIVD TVYEDGDSIQVGLVQYNSDPTDEFFL KDFSTKRQI IDAINKV VYKGGRHANTKVGLEHLR
VNHVPEAGSRLDQRVPQIAFVITGGKSVEDAQDVSLAL TQRGVKVF AVGVRNIDSEEVGKIASNSATAF
RVGNVQELSELSEQVLETLHDAMHETLCPGVTDAAKACNL DVILGFDGSRDQNVFVAQKGFESKVDAILN
RISQMH RVSCSGGRSPTVRVSVVANTPSGPVEAFDFDEYQPEMLEKFRNMRSQHPVYVLTEDTLKVYLNKF
RQSSPDSVKVVIHFTDGADGDLADLHRASENLRQEGV RALILVGLERVNLERLMLHLEFGRGFMYDRPLR
LNLLDL DYELAEQLDNIAEKACCGVPC KCSGQRGDRGPIG SIGPKGIPGEDGYRGPYGD EGGPGERGPPG
VNGTQGFQGC PGQRGVKGSRGFPGEKGEVGE IGLDGLDGEDGDKGLPGSSGEKGNPGRRGDKGPRGEKGE
RGDVGIRGDPGNPGQDSQERGPGETGDLGPMGV PGRDGVPGGPGETGKNGGFGRRGPPGAKGNKGGPGQ
PGFEQE QTRGAQGPAGPAGPPGLIGE QGISGPRGSGGAAGAPGERGRTGPLGRKGEPEGP GPKGGIGNR
GPRGETGDDGRDGVGSEGRRGKGERGFPGYPGPKGNPGEPLNGTTGPKGIRRRGNSGPPGIVGQKGD
PGYGPAGPKGNRGDSIDQCALIQSIKDKCPCCYGPLECPVFPT ELAFALDTSEGNQDTFGRMRDVVLS
IVNDL TIAESNCPRGARVAVVTYNNEVTTEIRFADSKRKS VLLDKIKNLQVALTSKQQSLETAMSFVARN
TFKRVRNGFLMRKVAVFFSNTPTRAS PQLREAVLKLSDAGITPLFLTRQEDRQLINALQINNTAVGHALV
LPAGRDLTDFLE NVLTCHVCLD ICNIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILD SAETTTTLFQFNE
MKKYIAYLVRQLDMSPDKASQHFARVAVVQHAPSESVDNASMP PVKVEFSLTDYGSKEKLVDFLSRGMT
QLQGTRALGSAIEYTIENVFESAPNPRDLKIVVLM LTGEVPEQQLEEAQRVILQAKCKGYFFVVLGIGRK
VNIKEVYTFASEPNDVFFKLVDKSTELNEEPLMRFGRL LPSFVSSENAFYLSPDIRKQCDWFQGDQPTKN
LVKFGHKQVNVPNVNTSSPTSNPVT TTKPVTTTKPVTTTKPVTTTKPVTTTKPVTTIINQPSVKPAAAKPAPAKP
VAAKPVATKMATVRPPVAVKPAATAAKPVAAKPAAVRPPAAAAA KPVA TKPEVPRPQA AKPAATKPATTKP
MVKMSRE VQVFEITENSAKLHWERAEPGPYFYD LTVTSAHDQSLVLKQNLTVTDRVIGLLAGQTYHVA
VVCYLR SQVRATYHGSFSTKKSQPPPPQPARSASSTINLMVSTEPLAL TETDICKLPKDEGTCRDFILK
WYYDPNTKSCARFWYGGCGGNENKFGSQKECEKVCAPVLAKPGVISVMGT
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**

**ACCN:**

NM\_057166

**ORF Size:**

7710 bp

**OTI Disclaimer:**

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_057166.5</a>
<b>RefSeq Size:</b>	8778 bp
<b>RefSeq ORF:</b>	7713 bp
<b>Locus ID:</b>	1293
<b>UniProt ID:</b>	<a href="#">P12111</a>
<b>Cytogenetics:</b>	2q37.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion
<b>MW:</b>	278.2 kDa
<b>Gene Summary:</b>	<p>This gene encodes the alpha-3 chain, one of the three alpha chains of type VI collagen, a beaded filament collagen found in most connective tissues. The alpha-3 chain of type VI collagen is much larger than the alpha-1 and -2 chains. This difference in size is largely due to an increase in the number of subdomains, similar to von Willebrand Factor type A domains, that are found in the amino terminal globular domain of all the alpha chains. These domains have been shown to bind extracellular matrix proteins, an interaction that explains the importance of this collagen in organizing matrix components. Mutations in the type VI collagen genes are associated with Bethlem myopathy, a rare autosomal dominant proximal myopathy with early childhood onset. Mutations in this gene are also a cause of Ullrich congenital muscular dystrophy, also referred to as Ullrich scleroatonic muscular dystrophy, an autosomal recessive congenital myopathy that is more severe than Bethlem myopathy. Multiple transcript variants have been identified, but the full-length nature of only some of these variants has been described. [provided by RefSeq, Jun 2009]</p>