

Product datasheet for **RG224572**

Collagen VI (COL6A3) (NM_004369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen VI (COL6A3) (NM_004369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL6A3
Synonyms:	BTHLM1; DYT27; UCMD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224572 representing NM_004369 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAACATCGGCACTTGCCCTTAGTGCCGCTCTTTGCCTCTTCTCTCAGGCTTTCCTACA
ATGCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGGGCTGCTGATATAATATTTCTAGTGATTCTC
TTGGACCATTGGAGAGGAACATTCCAACCTGTTTCGAGAGTTTCTATATGATGTTGTA
GTGGGAGAAAATGATTTCCATTTTCTGCTGGTCCAGTTCAACGGAAACCCACATACCGAGTTCCTGTTAA
ATACGTATCGTACTAAACAAGAAGTCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACCAATCA
GACTGGAAAAGGATTAGAATACATAATGCAAAGCCACCTACCAAGGCTGCTGGAAGCCGGCCGGTGC
GGAGTCCCTCAGGTTATCGTAGTGTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGG
AACTTAAGTCTGCTGATGTTAACGTGTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTAAAGA
AATAGCAAGTGAACCGCTCAATATGCATATGTTCAACCTAGAGAAATTTACCTCACTTATGACATAGTA
GGAAACTTAGTGTCTGTGTGCATTATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCTTAAAG
ACATCACAGCACAAAGACTCTGCTGACATTATTTTCCTTATTGATGGATCAAACAACCCGGAAGTGTCAA
TTTCGCAGTCATTCTCGACTTCTTGTAAATCTCCTTGAGAACTCCCAATTGGAACCTCAGCAGATCCGA
GTGGGGTGGTCCAGTTTAGCGATGAGCCAGAACCATGTTCTCCTTGGACACCTCCACCAAGGCC
AGGTTCTGGGTGCAGTGAAGCCCTCGGGTTGCTGGTGGGAGTTGGCCAATATCGGCCTCGCCCTTGA
TTTCGTGGTGGAGAACCCTTCAACCCGGCAGGGGCGAGCCGCTGGAGGAAGGGTTCCCAAGGTGCTG
GTCCTCATAAGTGCCGGCCTTCTAGTGACGAGATTTCGCTACGGGGTGGTAGCACTGAAGCAGGCTAGCG
TGTTCTCATTCCGGCCTTGGAGCCAGGCCCTCCAGGGCAGAGCTTCCAGCACATAGCTACCGATGACAA
CTTGGTGTACTGTCCCGAATTCGTAGCTTTGGGACCTCCAGGAGAAATTAAGTCCGTACATTGTT
GGCGTGGCCAAAGGCACATTGTCTTGAACCCCAACCATTGTCACACAAGTATTGAAGTCAACAAGA
GAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACTTCAATGCCATCCGAGACTT
CATTGCTAAAGTCATCCAGAGGCTGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCAGTATGCA



[View online »](#)

GACACTGTGAGGCCTGAATTTTATTTCAATACCCATCCAACAAAAAGGAAGTCATAACCGCTGTGCGGA
AAATGAAGCCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATT
CACGAGTTCAGCCGGCTACCGGGCTGCCGAGGGGATTCTTAAGCTTTTGGTGCTGATCACAGGTGGTAAG
TCCCTAGATGAAATCAGCCAGCCTGCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGA
ACAAGGTGCCGATCAGGCTGAGCTGGAAGAGATCGCTTCGACTCCTCCCTGGTGTTCATCCCAGCTGA
GTTCCGAGCCGCCCATTGCAAGGCATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGGAACC
CCTGAAGTTCACCAACAAAAAGGGATATCATCTTTCTTTGGATGGATCAGCCAACGTAATTCG
ATTTCCCTTATGTGCGCACTTTGTAATGAACCTAGTTAACAGCCTTGATATTGGAAATGACAATATTCTG
TGTTGGTTTGTGCAATTTAGTGACACTCTGTAAACGGAGTTCTCTTTAAACACATACCAGACCAAGTCA
GATATCCTTGGTCATCTGAGGCAGCTGCAGCTCCAGGGAGGTTCCGGCCTGAACACAGGCTCAGCCCTAA
GCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGTGAACACGTGCCGAGCTCCT
GCTTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCCTTGACACGCGCGGGC
ATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCAATAAGGCAGAGCTTGAGCAGATTGCTTTTAAACCAA
GCCTGGTGTATCTCATGGATGATTTAGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTCAGCCCCTAAC
CACATATGTTAGTGGAGGTGTGGAGGAAGTACCACTCGCTCAGCCAGAGCAAGCGAGACATTCTGTTT
CTCTTTGACGGCTCAGCCAATCTTGTGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCG
ATGAGCTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGA
GTCCCCTTTTGTGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACG
GGCAAAGCCCTCAACCTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGTGGCA
GCCGATCGAGGATGGAGTGCTTCAAGTCTGCTGCTGGTGCAGGAAGGTGATCTGACCGTGTGGA
TGGGCCAGCAAGTAACCTGAAGCAGAGTGGGGTGTGCCTTTTATCTTCCAAGCCAAGAACGCAGACCCT
GCTGAGTTAGAGCAGATCGTGTCTCCAGCGTTTATCCTGGCTGCAGAGTCTGCTTCCAAGATTGGAG
ATCTTCAATCCACAGATAGTGAATCTCTTAAAATCAGTGCACAACGAGCACCAGCAGCAGTGTGAGTGA
AAAGGACGTGGTGTCTGCTTGTGCTGAGGGCGTCAAGGAGCGGCTTCCCTCTGTTGAAAGATTT
GTCCAGAGAGTGGTGAAGCCTGGATGTGGGCCAGGACCGGTCGCGTGGCCGTGGTGCAGTACAGCG
ACCGGACCAGGCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGACGTGTCACCGCTGTCCGCCA
GCTGACCTGCTGGGAGGGCCGACCCCAACACCGGGCCGCCCTGGAGTTTGTCTGAGGAACATCCTG
GTCAGCTCTGCGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCTCACGGCCGACAGGT
CTGGGGATGATGTGCGGAACCCCTCCGTGGTGTGAAGAGGGTGGGGCTGTGCCATTGGCATTGGCAT
CGGGAACGCTGACATCACAGAGATGCAGACCATCTCTTATCCCGGACTTTGCCGTGGCATTCCCACC
TTTCGCCAGCTGGGACCGTCCAACAGGTATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGA
GCAAGGCTGCAGCCGGTGTGAGCCTCTACCGAGCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCT
CATCGATGGGTCCCAAAGTGCCGGGCTGAGTTCAGTACGTTCCGACCCCTCATAGAGAGGCTGGTTGAC
TACCTGGACGTGGGCTTTGACACCACCCGGGTGGCTGTATCCAGTTCAGCGATGACCCCAAGGTGGAGT
TCCTGTGAACGCCCATTCAGCAAGGATGAAGTGCAGAACCGGTGCAGCGGCTGAGGCCCAAGGGAGG
GCGGCAGATCAACGTGGGCAATGCCCTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTGGGGAGC
CGCATTGAAGAGGGCGTCCCGCAGTTCTGGTCTCATCTCGTCTGAAAGTCTGACGATGAGGTGGACG
ACCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCCCTTTCAGATCGCCAGGAACGCAGACCAGGAGGA
GCTGGTGAAGATCTCGTGAAGCCCGAATATGTGTTCTCGGTGAGCACCTTCCGGGAGCTGCCAGCCTG
GAGCAGAAACTGCTGACGCCATCACGACCCTGACCTCAGAGCAGATCCAGAAGCTCTTAGCCAGCACTC
GCTATCCACCTCCAGCAGTTGAGAGTGTGCTGCAGACATTGTCTTTCTGATCGACAGCTCTGAGGGAGT
TAGGCCAGATGGCTTTGCACATATTCGAGATTTTGTAGCAGGATTGTTGAAAGACTCAACATCGGCCCC
AGTAAAGTGAAGTGGGGTGTGACGTTTCCAGCAATGATGTTTCCAGAAATCTATCTGAAAACCTACA
GATCCCAGGCCCGGTGCTGGACGCCATACGGCGCCTGAGGCTCAGAGGGGGTCCCACTGAACACTGG
CAAGGCTCTCGAATTTGTGGCAAGAACTCTTTGTTAAGTCTGCGGGGAGTCGCATAGAAGACGGGGT
CCCCAACCTGGTCTGGTCTGGGTGAAAAATCCCAGGACGATGTGTCCAGGTTCCGCCAGGTGATCC
GTTCTCGGGCATTGTGAGTTTAGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATCAC
CAATGACCCAGACTGGTCTTACAGTGGGAGGTTTCCAGAGGCTTCCCAACATAGAAGAAAGAATCATG
AACTCGTTTGGACCTCCGACGCACTCCTGCACCTCCAGGGGTGGACACCCCTCCTCTCACGGCCAG
AGAAGAAGAAAGCAGACATTGTGTTCTGTTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGA
AGTGCTTCGTTTTGTGTCTGAAATAGTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTT
GTCCAGTACAACCTGACCCACTGACGAATCTTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTG

ACGCCATCAACAAAGTGGTCTACAAAGGGGAAGACACGCCAACACTAAGGTGGGCCTTGAGCACCTGCG
GGTAAACCACTTTGTGCCTGAGGCAGGCAGCCGCTGGACCAGCGGGTCCCTCAGATTGCCTTTGTGATC
ACGGGAGGAAAGTCGGTGAAGATGCACAGGATGTGAGCCTGGCCCTCACCCAGAGGGGGTCAAAGTGT
TTGCTGTTGGAGTGAGGAATATCGACTCGGAGGAGTTGGAAAGATAGCGTCCAACAGCGCCACAGCGTT
CCGCGTGGCAACGTCCAGGAGCTGTCCGAAGTCCGAGCAAGTTTTGGAACTTTGCATGATGCGATG
CATGAAACCTTTGCCCTGGTGAATGATGCTGCCAAAGCTTGAATCTGGATGTGATTCTGGGTTTTG
ATGTTCTAGAGACCAGAATGTTTTTTGGCCAGAGGGCTTCGAGTCCAAGGTGGACCCATCTGAA
CAGAATCAGCCAGATGCACAGGGTCCAGCTGCAGCGGTGGCCGCTCGCCACCCTGCGTGTGTCAGTGGT
GCCAACACGCCCTCGGGCCCGTGGAGGCTTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGT
TCCGGAACATGCGCAGCCAGCACCCCTACGTCCTCACGGAGGACACCCTGAAGTCTACCTGAACAAGT
CAGACAGTCTCGCCGGACAGCGTGAAGTGGTCAATTTTACTGATGGAGCAGACGGAGATCTGGCT
GATTTACACAGAGCATCTGAGAAGTCCGCCAAGAAGGAGTCCGTGCCTTGATCTGGTGGGCTTGAAC
GAGTGGTCAACTGGAGCGGCTAATGCATCTGGAGTTGGGCGAGGGTTATGTATGACAGGCCCTGAG
GCTTAAGTGGTGGACTGGATTATGAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGTGT
GGGTTCCCTGCAAGTGTCTGGGCAGAGGGGAGACCGCGGCCATCGGCAGCATCGGGCCAAAGGGTA
TTCTGGAGAAGACGGCTACCGAGGCTATCCTGGTGTGAGGGTGGACCCGGTGGAGCGTGTCCGCTGG
TGTGAACGGCACTCAAGTTCAGGGTGCCTGGCCAGAGAGGAGTAAAGGGCTCTCGGGGATCCCA
GGAGAGAAGGGCGAAGTAGGAGAAATTGGACTGGATGGTCTGGATGGTGAAGATGGAGACAAAGGATTGC
CTGGTTCTTGGAGAGAAAGGGAACTCTGGAAGAAGGGGTGATAAAGGACCTCGAGGAGAGAAAGGAGA
AAGAGGAGATGTTGGGATTCGAGGGGACCCGGTAACCCAGGACAAGACAGCCAGGAGAGAGGACCCAAA
GGAGAAACCGGTGACCTCGGCCCATGGTGTCCAGGGAGAGATGGAGTACCTGGAGGACCTGGAGAAA
CTGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCGGAGCTAAGGGCAACAAGGGCGGTCTGGCCA
CCCGGGCTTTGAGGGAGAGCAGGGGACAGAGGTGCACAGGGCCAGCTGGTCTGCTCTCCAGGG
CTGATAGGAGAACAAGGCATTTCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGTCTCTGGAGAAG
GCAGAACCAGTCCACTGGGAAGAAAGGGTGGAGCCGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCG
GGGCCCTCGTGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGAGAGGCAAAAA
GGAGAAAGAGGATTCCCTGGATACCCAGGACCAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAA
CAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGA
CCCTGGCTACCCAGGACAGCTGGTCCCAAGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATC
CAAAGCATCAAAGATAAATGCCCTTGTGTTACGGGCCCTGGAGTGCCCGTCTTCCCAACAGAAGTAG
CCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAAGACACTTTCGGCCGGATGCGAGATGTGGTCTTGAG
TATTGTGAATGACCTGACCATGCTGAGAGCAACTGCCACGGGGGGCCGGGTGGCTGTGGTCACTAC
AACACAGAGGTGACCACGGAGATCCGGTTTGTGACTCCAAGAGGAAGTCCGTCTCTGGACAAGATTA
AGAACCTTCAGGTGGCTCTGACATCCAACAGCAGAGTCTGGAGACTGCCATGTCGTTTGTGGCCAGGAA
CACATTTAAGCGTGTGAGGAACGGATTCCATATGAGGAAAGTGGCTGTTTTCTTACGCAACACCCACA
AGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCTTGTCTTCA
CAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTCAGATCAATAACACAGCAGTGGGCATGCGCTTGT
CCTGCCTGCAGGGAGAGACCTCACAGACTTCTGGAGAATGTCTCACGTGTGATGTTGCTTGGACATC
TGCAACATCGACCCATCCTGTGGATTTGGCAGTTGGAGGCTTCTTCAGGGACAGGAGAGCGGAGGGA
GCGATGTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAGTTCATGA
GATGAAGAAGTACATAGCGTACCTGGTCCAGAACTGGACATGAGCCAGATCCCAGGCTCCAGCAC
TTCGCCAGAGTGGCAGTTGTGCAGCACGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGA
AGGTGGAATTCCTCTGACTGACTATGGCTCCAAGGAGAAGTGGTGGACTTCTCAGCAGGGGAATGAC
ACAGTTGCAGGGAACAGGGCTTAGGCAGTGCCATTGAATACCCATAGAGAATGTCTTTGAAAGTGCC
CCAAACCCAGGGACCTGAAAATTTGGTCTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGG
AGGCCAGAGAGTCACTCTGCAGGCCAAATGCAAGGGCTACTTCTCGTGGTCTGGGCATTGGCAGGAA
GGTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCAAACGAGCTTCTTCAAATAGTGGACAAG
TCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTGTTGCCATCCTTCGTACAGAGTGA
ATGCTTTTTACTTGTCCCAGATATCAGGAAACAGTGTGATTGGTTCCAAGGGGACCAACCCACAAGAA
CCTTGTGAAGTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGTCTACATCCAACCCA
GTGACGACAACGAAGCCGGTGTGACTACGACGAAGCCGGTACCACCACAACAAAGCCTGTAACCCACAA
CAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAAGCCGGCCCTGCGAAACC

TGTGGCTGCCAAGCCTGTGGCCACAAAGATGGCCACTGTTAGACCCCAAGTGGCGGTGAAGCCAGCAACG
GCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCGCTGCTGCTGCTGCAAAACCAGTGG
CGACCAAGCCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCCACCACTAAGCC
CATGGTTAAGATGTCCCGTGAAGTCCAGGTGTTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAG
AGGGCTGAGCCCCCGGTCCTTATTTTTATGACCTCACCGTCACCTCAGCCCATGATCAGTCCCTGGTTC
TGAAGCAGAACCACCGGTCACGGACCGCGTCATTGGAGGCTGCTCGCTGGGCAGACATACCATGTGGC
TGTGGTCTGCTACCTGAGGTCTCAGGTCAGAGCCACCTACCACGGAAGTTTCAGTACAAAGAAATCTCAG
CCCCACCTCCACAGCCAGCAAGGTCAGCTTCTAGTTCAACCATCAATCTAATGGTGAGCACAGAACCAT
TGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAAGACGAAGGAACTTGCAGGGATTTTCATATTA
ATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTGTGGTGGAAACGAAAC
AAATTTGGATCACAGAAAGAATGTGAAAAGTTTGCCTCTGCTCGCCAAACCCGGAGTCATCAGTG
TGATGGGAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224572 representing NM_004369
 Red=Cloning site Green=Tags(s)

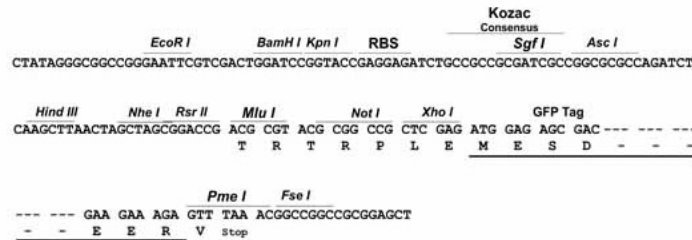
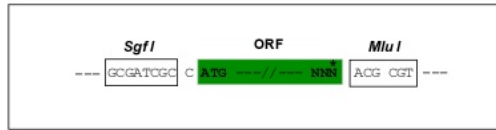
MRKHRHLPLVAVFCLFLSGFPTTHAQQQQADVKNAAAADIIFLVDSSWTIGEEHFQLVREFLYDVKVSLA
 VGENDFFHALVQFNGNPHTFELLNTRYTKQEVLSHISNMSYIGGTNQTGKLEYIMQSHLTKAAGSRAGD
 GVPQVIVVLTGDGSKDGLALPSAELKSADVNVAIGVEDADEGALKEIASEPLNMHMFLENFTSLHDIV
 GNLVSCVHSSVSPERAGDTEITLKDITAQDSADIIFLIDGSNNTGSVNFVAVILDVNLLEKLPVIGTQQIR
 VGVVQFSDEPRTMFLDITYSTKAQVLGAVKALGFAGGELANIGLALDFVVENHFTAGGSRVEEGVPQVL
 VLI SAGPSSDEIRYGVVALKQASVVSFGLGAQAASRAELQHIATDDNLVFTVPEFRSFGDLQEKLLPYIV
 GVAQRHIVLKPPTIVTQVIEVNRDIVFLVDGSSALGLANFNARDFIAKVIQRLEIGQDLIQVAVAYQA
 DTVRPEFYFNTHPTKREVITAVRKMPLDGSALYTGSAIDFVRNNLFTSSAGYRAAEGIPKLLVITGGK
 SLDEISQPAQELKRSSIMAFIGNKGAQAELEEIAFDSSLVFIAPAEFRAAPLQGMPLGLLAPLRTLSTG
 PEVHSNKRDIIFLLDGSANVGKTNFPYVRDFVMNLVNSLDIGNDNIRVGLVQFSDTPVTEFLSNTYQTKS
 DILGHLRQLQLQGGSLNTGSALSYVYANHFTEAGGSRIREHVPQLLLLLTAGQSEDSYLQANALTRAG
 ILTFCV GASQANKAELEQIAFNPSLVYLMDDFSSLPALPQQLIQPLTTYVSGGVVEEPLAQPESKRDILF
 LFDGSANLVGQFPVVRDFLYKIIDELNVKPEGTRIAVAQYSDDVKVESRFDEHQSKPEILNLVKNMKIKT
 GKALNLGYALDYAQRVIFVKSAGSRIEDGVLQFLVLLVAGRSSDRVDGPAASNKQSGVVPFIFQAKNADP
 AELEQIVLSPAFLAAESLPKIGDLHPQIVNLLKSVHNGAPAPVSGEKDVVFLLDGSEGVRSGFPLLKEF
 VQRVVESLDVGGQDRVRVAVVQYSDRTRPEFYLSNSYMNKQDVVNAVRLTLLGGPTPNTGAALFVLRNII
 VSSAGSRITEGVPQLLIVLTADRSDDVRNPSVVVKRGGAVPIGIGIGNADITEMQTI SIFIPDFAVAIPT
 FRQLGTVQQVISERVTLTREELSRQLPVLQPLSPGVGGKRDVFLIDGSQSAGPEFYVRTLIERLVD
 YLDVGFDTTRVAVIQFSDPKVEFLNAHSSKDEVQNAVQRLRPKGRQINVGNAL EYVSRNIFKRPLGS
 RIEEGLVPQFLVLISSGKSDDEVDDPAVELKQFGVAPFTIARNADQEELVKISLSPEYVFSVSTFRELPSL
 EQKLLTPIITTLTSEQIQKLLASTRYPPPAVESDAADIVFLIDSSSEGVPRPDGFAHIRDFVSRIVRRLNIGP
 SKVRVGVVQFSNDVFPFYLKTYRSQAPVLDAIRRLRLRGGSPNLTKALEFVARNLVFKSAGSRIEDGV
 PQHLVVLVGGKSQDDVSRFAQVIRSSGIVSLGVGDRNIDRTELQITNDPRLVFTVREFRELPIIEERIM
 NSFGPSAATPAPPGVDTPPPSRPEKKKADIVFLLDGSINFRRDSFQEVLRVSEIVDTVYEDGDSIQVGL
 VQYNSDPTDEFFLKDFSTKRQIIDAINKVVYKGRHANTKVGLEHLRVNHVPEAGSRLDQRPQIAFVI
 TGGKSVEDAQDVSAL TQRGVKVFVAVGVRNIDSEEVGKIASNSATAFRVGNVQELSELSEQVLETLHDAM
 HETLCPGVTDAAKACNLDVILGFDGSRDQNVFVAQKGFESKVDAILNRI SQMHRVSCSGGRSPTVRVSVV
 ANTPSGPVEAFDFDEYQPEMLEKFRNMRSQHPYVLTEDTLKVYLNKFRQSSPDSVKVVIHF TDGADGLA
 DLHRASENLRQEGVRALILVGLERVNLERLMHLEFGRGFMYDRPLRLNLLDLDYELAEQLDNIAEKACC
 GVPCKCSGQRGDRGPIGSI GPKGIPGEDGYRGYPGDEGGPGERGPPGVNGTQGFQGCPCGQGVKGSRGFP
 GEKGEVGEIGLDGLDGEDGDKLPGSSGEKGNPGRGDKGPRGEKGERGDVIRGDPGNPQQDSQERGP
 GETGDLGPMGVPRDGVPGGGETGKNGGFGRGPPGAKGNKGGPGQPGFEGEQGTRGAQGPAGPAGPPG
 LIGEQGISGPRGSGGAAGAPGERGRTGPLGRKGEPGEPGPKGGIGNRGRGETGDDGRDGVGSEGRGK
 GERGFPGYPGPKGNPGEPLNGTTGPKGIRRRGNSSGPGIVGQKGDPGYPGAPGPKGNRGSIDQCALI
 QSIKDKCPCCYGPLECPVFTELAFALDTSEGVNQDTFGRMRDVLSIVNDLTIAESNCPRGARVAVVPT
 NNEVTTEIRFADSKRKS VLLDKIKNLQVALTSKQQSLETAMSFVARNTFKRVRNGFLMRKVAVVFTSNTPT
 RASPQLREAVLKLSDAGITPLFLTRQEDRQLINALQINNTAVGHALVLPAGRDLTDFLENLVLTCHVCLDI
 CNIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILD SAETTTLFQFNEMKKYIAYLVRQLDMSPDPKASQH
 FARVAVVQHAPSESVDNASMPPVKEFSLTDYGSKEKLVDFLSRGMQLQGTALGSAIEYTIENVFESA
 PNPRDLKIVVLMLTGEVPEQQLEEAQRVILQAKCKGYFFVVLGIGRKNVIKEVYTFASEPNDVFFKLVDK
 STELNEEPLMRFGRLLPSFVSSENAFYLSPIRQCDWFQGDQPTKNLVKFGHKQVNVNPNVTSPTSNP
 VTTTKPVTTTKPVTTTKPVTTTKPVTTIINQPSVKPAAAKPAPAKPVAAPVATKMATVRPPVAVKPAT
 AAKPVAAPAAVRPPAAAAAKPVATKPEVPRPQAAKPAATKPAATKPMVKMSREVQVFEITENS AKLHWE
 RAEPGPYFYDLTVTSAHDQSLVLKQNLTVTDRVIGLLAGQTYHVAVVCYLRVSRATYHGSFSTKKSQ
 PPPPQPARSASSSTINLMVSTEPLALTETDICKLPKDEGTCRDFILKWYDPNTKSCARFWYGGCGNEN
 KFGSQKECEKVCAPVLAKPGVISVMGT

TRTRPLE - GFP Tag - V

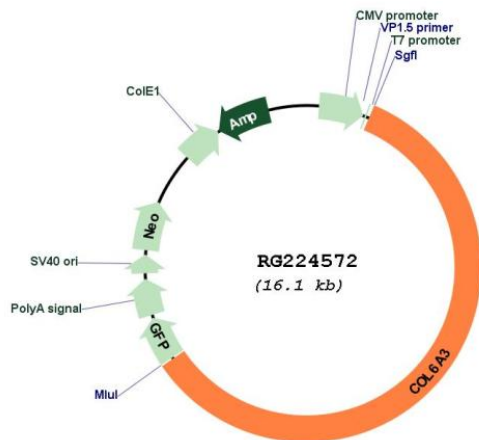
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_004369

ORF Size: 9531 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_004369.4
RefSeq Size:	10562 bp
RefSeq ORF:	9534 bp
Locus ID:	1293
UniProt ID:	P12111
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion
Gene Summary:	<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>