

Product datasheet for **RG234791**

CTAGE5 (MIA2) (NM_001247988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTAGE5 (MIA2) (NM_001247988) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTAGE5
Synonyms:	CTAGE5; MEA6; MGEA; MGEA6; MGEA11; TALI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234791 representing NM_001247988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGACCAGATTCTAATCTTTATGGTTTTCCATGGGAATTGGTATGTGCAGCTGTTGTTGGATTTT
 TTGCTGTTCTCTTTTTTTGTGGAGAAGTTTTAGATCGGTTAGGAGTCGGCTTTATGTGGGACGAGAGAA
 AAAGCTTGCTCTAATGCTTTCTGGACTAATTGAAGAAAAAAGTAACTACTTGAAAAATTTAGCCTTGTT
 CAAAAAGAGTATGAAGGCTATGAAGTAGAGTCATCTTTAAAGGATGCCAGCTTTGAGAAGGAGGCAACAG
 AAGCACAAAGTTTGGAGGCAACCTGTGAAAAGCTGAACAGGTCCAATTCTGAACTTGAGGATGAAATACT
 CTGTCTAGAAAAAGATTAAAAGAAGAGAAATCCAAACATTCTGAACAAGATGAATTGATGGCGGATATT
 TCAAAAAGGATACAGTCTCTAGAAGATGAGTCAAATCCCTCAAATCACAAAGTAGCTGAAGCCAAAATGA
 CCTTCAAGATATTTCAAATGAATGAAGAACGACTGAAGATAGCAATAAAAGATGCTTTGAATGAAAATTC
 TCAACTTCAGGAAAGCCAGAAACAGCTTTTGAAGAAGCTGAAGTATGGAAGAACAAGTGAAGTGAAGT
 AATAAACAGAAAGTAAACATTTGAAGACTCCAAAGTACATGCAGAACAAGTCTAAATGATAAAGAAAGTC
 ACATCAAGACTCTGACTGAACGCTTGTTAAAGATGAAAGATTGGGCTGCTATGCTTGAGAGAGACATAAC
 GGATGATGATAACTTGAATTAGAAATGAACAGTGAATCGGAAAAATGGTCTTACTTAGATAATCTCCCA
 AAAGGAGCTTTGAAGAACTGATTCATGCTGCTAAGTTAAATGCTTCTTTAAAAACCTTAGAAGGAGAAA
 GAAACCAATTTATATTCAGTTGTCTGAAGTTGATAAAACAAAGGAGAGCTTACAGAGCATATTAATA
 TCTTCAGACTGAACAAGCATCTTTCAGTCAGAAAACACACATTTTAAAATGAGAATCAGAAGCTTCAA
 CAGAAACTTAAAGTAACTGACTGAATTATCAAGAAAAATGAAATGAACTCCACAGGAAATTAACAGTAG
 AGGAAAAATTATCGGTTAGAGAAAGAAGAGAAACTTTCTAAAGTAGATGAAAAGATCAGCCATGCCACTGA
 AGAGCTGGAGACCTATAGAAAGCGAGCCAAAGATCTTGAAGAAGAATTGGAGAGAACTATTCATTCTTAT
 CAAGGGCAGATTATTTCCCATGAGAAAAAAGCACATGATAATTGGTTGGCAGCTCGGAATGCTGAAAGAA
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 ACTTTTAGAAAAAGATCCTTATGCACTCGATGTTCCAAATACAGCATTGGCAGAGGCTCACGAGGCCCA
 GGGAATCCTCTGGACCATCAGATTACCAATGAAAGAGGAGAATCAAGCTGTGATAGGTTAACCGATCCTC
 ATAGGGCTCCCTCTGACTGGTCTCTGTACCTCCATGGGACCAGGACCGTAGGATGATGTTTCCTCC
 GCCAGGACAATCATATCCTGATTAGCCCTTCCACAAAAGGCAAGACAGATTTTGTCTAATTCTGGT
 AGACTGTCTGGACCAGCAGAACTCAGAAGTTTTAATATGCCTTCTTTGGATAAAATGGATGGGTCAATGC
 CTTCAGAAATGGAATCCAGTAGAAATGATACCAAGATGATCTTGGTAATTTAAATGTGCCTGATTCATC
 TCTCCCTGCTGAAAATGAAGCCACTGGCCCTGGCTTTGTTCTCCACCTCTTGCTCCAATCAGAGGTCCA
 TTGTTTCCAGTGGATGCAAGAGGCCATTTCTTGAGAAGAGGACCTCCTTTCCCCCACCCTCCAGGAG
 CCATGTTTGGAGCTTCTCGAGATATTTTCCACCAGGGGATTTCCAGGTCCACCACCTGCTCCATTTGC
 AATGAGAAATGTCTATCCACCGAGGGTTTTCTCCTTACCTTCCCCAAGACCTGGATTTTTCCCCCA
 CCCCCACATTCTGAAGGTAGAAGTGAGTCCCCCTCAGGTTTGATTCCACCTTCAAATGAGCCTGCTACTG
 AACATCCAGAACCACAGCAAGAAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234791 representing NM_001247988
 Red=Cloning site Green=Tags(s)

MRPDSNLYGFPWELVICAADVGGFFAVLFFLWRSFRSVRSRLYVGREKKLALMLSGLIEEKSLLLEKFSLV
 QKEYEGYEVESLKDASFEKEATEAQSLEATCEKLNRSNSELEDEILCLEKELKEEKSKHSEQDELMA
 SKRIQSLEDESKLSQVAEAKMTFKIFQMNEERLKIATKDALNENSQLQESQKQLLQEAQVWKEQVSEL
 NKQKVTFFEDSKVHAEQVLNDKESHKIKTLTERLLKMKDWAAMLGEDITDDDNLEEMNSESENGAYLDNPP
 KGALKKLIHAAKLNASKTLEGERNQIYIQLSEVDKTKHEELTEHIKNLQTEQASLQSENTHFENENQKLQ
 QKLVMTELYQENEMKLRKLTVEENYRLEKEEKLSKVDEKISHATEELETYRKRKADLEEEELERTIHSY
 QGQIISHEKKAHDNWLAAARNAERNLNDLRKENAHRQKLTETELKFELLEKDPYALDVPNTAFGRGRGP
 GNPLDHQITNERGESSCDRLTDPHRAPSDTGSLSPWDQDRMMFPPPGQSYPSALPPQRQDRFCNSG
 RLSGPAELRSFNMPSLDKMDGSMPSSESSRNDTKDDLGNLNPDSLPAENEATGPGFVPPPLAPIRGP
 LFPVDARGPFLRRGPPFPPPPGAMFGASRDYFPPGDFPGPPPAPFAMRNVPYPPRGFPPYLP
 PPHSEGRSEFPSSGLIPPSNEPATEHPEPQQET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001247988

ORF Size: 2196 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:

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_001247988.1](#), [NP_001234917.1](#)

RefSeq Size: 3382 bp

RefSeq ORF: 2199 bp

Locus ID: 4253

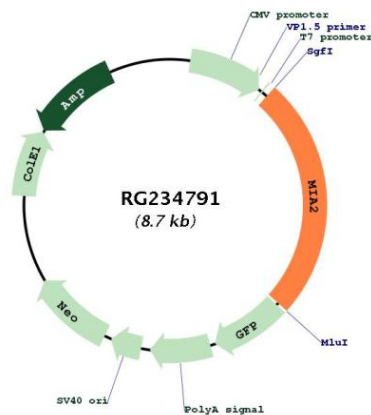
UniProt ID: [Q96PC5](#)

Cytogenetics: 14q21.1

Protein Families: Transmembrane

Gene Summary: This gene encodes s receptor in the endoplasmic reticulum, which plays a role in the export of large pre-chylomicrons and pre-very low density lipoproteins (pre-VLDLs). Three major classes of transcripts are generated from this gene- melanoma inhibitory activity 2-specific transcripts, cTAGE family member 5-specific transcripts and transcripts that include exons from both these transcript species (TANGO1-like or TALI). Additionally, alternative splicing in these transcripts results in multiple transcript variants encoding multiple isoforms. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG234791