

## Product datasheet for **RC234791**

### **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:	Myc-DDK
Symbol:	CTAGE5
Synonyms:	CTAGE5; MEA6; MGEA; MGEA6; MGEA11; TALI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234791 representing NM\_001247988  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGACCAGATTCTAATCTTTATGGTTTTCCATGGGAATTGGTGATATGTGCAGCTGTTGTTGGATTTT  
 TTGCTGTTCTCTTTTTTTGTGGAGAAGTTTTAGATCGGTTAGGAGTCGGCTTTATGTGGGACGAGAGAA  
 AAAGCTTGCTCTAATGCTTTCTGGACTAATTGAAGAAAAAAGTAACTACTTGAAAAATTTAGCCTTGTT  
 CAAAAAGAGTATGAAGGCTATGAAGTAGAGTCATCTTTAAAGGATGCCAGCTTTGAGAAGGAGGCAACAG  
 AAGCACAAAGTTTGGAGGCAACCTGTGAAAAGCTGAACAGGTCCAATTCTGAACTTGAGGATGAAATACT  
 CTGTCTAGAAAAAGATTAAAAGAAGAGAAATCCAAACATTCTGAACAAGATGAATTGATGGCGGATATT  
 TCAAAAAGGATACAGTCTCTAGAAGATGAGTCAAATCCCTCAAATCACAAAGTAGCTGAAGCCAAAATGA  
 CCTTCAAGATATTTCAAATGAATGAAGAACGACTGAAGATAGCAATAAAAGATGCTTTGAATGAAAATTC  
 TCAACTTCAGGAAAGCCAGAAACAGCTTTTGAAGAAGCTGAAGTATGGAAGAACAAGTGAGTGAAGTT  
 AATAAACAGAAAGTAAACATTTGAAGACTCCAAAGTACATGCAGAACAAGTTCTAAATGATAAAGAAAGTC  
 ACATCAAGACTCTGACTGAACGCTTGTTAAAGATGAAAGATTGGGCTGCTATGCTTGAGAGAGACATAAC  
 GGATGATGATAACTTGAATTAGAAATGAACAGTGAATCGGAAAAATGGTCTTACTTAGATAATCTCCCA  
 AAAGGAGCTTTGAAGAACTGATTCATGCTGCTAAGTTAAATGCTTCTTTAAAAACCTTAGAAGGAGAAA  
 GAAACCAATTTATATTCAGTTGTCTGAAGTTGATAAAACAAAGGAGAGCTTACAGAGCATATTAATAA  
 TCTTCAGACTGAACAAGCATCTTTCAGTCAGAAAACACACATTTTAAAATGAGAATCAGAAGCTTCAA  
 CAGAAACTTAAAGTAATGACTGAATTATCAAGAAAAATGAAATGAACTCCACAGGAAATTAACAGTAG  
 AGGAAAAATATCGGTTAGAGAAAGAAGAGAAACTTTCTAAAGTAGATGAAAAGATCAGCCATGCCACTGA  
 AGAGCTGGAGACCTATAGAAAGCGAGCCAAAGATCTTGAAGAAGAATTGGAGAGAACTATTCATTCTTAT  
 CAAGGGCAGATTATTTCCCATGAGAAAAAAGCACATGATAATTGGTTGGCAGCTCGGAATGCTGAAAGAA  
 ACCTCAATGATTTAAGGAAAGAAAATGCTCACACAGACAAAAATTAAGTAAACAGAGCTTAAATTTGA  
 ACTTTTAGAAAAAGATCCTTATGCACTCGATGTTCCAAATACAGCATTGGCAGAGGCTCACGAGGCCCA  
 GGGAACTCTGACCATCAGATTACCAATGAAAGAGGAGAATCAAGCTGTGATAGGTTAACCGATCCTC  
 ATAGGGCTCCCTGACTGCTGTGTACCTCCATGGGACCAGGACCGTAGGATGATGTTTCCTCC  
 GCCAGGACAATCATATCCTGATTCAGCCCTTCCACAAAGGCAAGACAGATTTTGTCTAATTCTGGT  
 AGACTGTCTGGACCAGCAGAACTCAGAAGTTTTAATATGCCTTCTTTGGATAAAATGGATGGGTCAATGC  
 CTTCAGAAATGGAATCCAGTAGAAATGATACCAAGATGATCTTGGTAATTTAAATGTGCCTGATTCATC  
 TCTCCCTGCTGAAAATGAAGCCACTGGCCCTGGCTTTGTTCTCCACCTCTTGCTCCAATCAGAGGTCCA  
 TTGTTTCCAGTGGATGCAAGAGGCCATTTCTTGAGAAGAGGACCTCCTTTCCCCCACCCTCCAGGAG  
 CCATGTTTGGAGCTTCTCGAGATATTTTCCACCAGGGGATTTCCAGGTCCACCACCTGCTCCATTTGC  
 AATGAGAAATGTCTATCCACCAGGGGTTTTCTCCTTACCTTCCCCAAGACCTGGATTTTTCCCCCA  
 CCCCCACATTCTGAAGGTAGAAGTGAGTTCCCCTCAGGTTTGATTCCACCTTCAAATGAGCCTGCTACTG  
 AACATCCAGAACCACAGCAAGAAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC234791 representing NM\_001247988  
 Red=Cloning site Green=Tags(s)

MRPDSNLYGFPWELVICAAVVGGFFAVLFFLWRSFRSVRSRLYVGREKKLALMLSGLIEEKSLLLEKFSLV  
 QKEYEGYEVESLKDASFEKEATEAQSLEATCEKLNRSNSELEDEILCLEKELKEEKSKHSEQDELADI  
 SKRIQSLDEDESKLSQVAEAKMTFKIFQMNEERLKIATKDALNENSQLQESQKQLLQEAQVWKEQVSEL  
 NKQKVTFFEDSKVHAEQVLNDKESHKTLTERLLKMKDWAAMLGEDITDDDNLEEMNSESENGAYLDNPP  
 KGALKKLIHAAKLNASKTLEGERNQIYIQLSEVDKTKEELTEHIKNLQTEQASLQSENTHFENENQKLQ  
 QKLVMTELYQENEMKLRKLTVEENYRLEKEEKLSKVDEKISHATEELETYRKRADLEEELEERTIHSY  
 QGQIISHEKKAHDNWLAAARNAERNLNDLRKENAHRQKL TETELKFELLEKDPYALDVPNTAFGRGSRGP  
 GNPLDHQITNERGESSCDRLTDPHRAPSDTGSLSPPWDQDRMMFPPPGQSYPPDSALPPQRDRFCNSG  
 RLSGPAELRSFNMPSLDKMDGSMPSSESSRNDTKDDLGNLNPDSLPAENEATGPGFVPPPLAPIRGP  
 LFPVDARGPFLRRGPPFPPPPGAMFGASRDYFPPGDFPGPPPAPFAMRNVPYPPRGFPPYLPFRGFFPP  
 PPHSEGRSEFPGLIPPSNEPATEHPEPQQET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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](#)

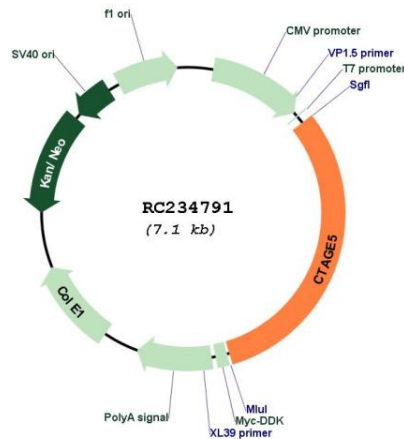
**Cytogenetics:** 14q21.1

**Protein Families:** Transmembrane

**MW:** 83.8 kDa

**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 RC234791