

## Product datasheet for **RG221265**

### CTAGE5 (MIA2) (NM\_005930) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTAGE5 (MIA2) (NM_005930) 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:**

>RG221265 representing NM\_005930  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAGCCCGGGTTACCCCTCAACCGTATTTGGGGCTGCTCCTGGAGGAGCTACGCAGGGTTGTGG  
 CAGCACTGCCTGAAGGTATGAGACCAGATTCTAATCTTTATGGTTTTCCATGGGAATTGGTGATATGTGC  
 AGCTGTTGTTGGATTTTTTGTCTTCTTTTTTTTTGTGGAGAAGTTTTAGATCGGTTAGGAGTCGGCTT  
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 AAAATTTAGCCTTGTTCAAAAAGAGTATGAAGGCTATGAAGTAGAGTCATCTTTAAAGGATGCCAGCTT  
 TGAGAAGGAGGCAACAGAAGCACAAAGTTGGAGGCAACCTGTGAAAAGCTGAACAGGTCCAATTCTGAA  
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 CAGGAAAATTAACAGTAGAGGAAAATTATCGGTTAGAGAAAAGAAGAGAAACTTTCTAAAGTAGATGAAAAG  
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 ACAGAGCTTAAATTTGAACTTTTAGAAAAAGATCCTTATGCACTCGATGTTCCAAATACAGCATTGGCA  
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 TCCTCCGCCAGGACAATCATATCCTGATTTCAGCCCTTCTCCACAAGGCAAGACAGATTTTGTCTAAT  
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 GGTCCATTGTTCCAGTGGATGCAAGAGGCCATTCTTGAGAAGAGGACCTCCTTTCCCCCACCTCCTC  
 CAGGAGCCATGTTGGAGCTTCTCGAGATATTTCCACCAGGGGATTTCCAGGTCCACCACCTGCTCC  
 ATTTGCAATGAGAAATGTCTATCCACCGAGGGTTTTCTCTTACCTTCCCCAAGACCTGGATTTTTTC  
 CCCCACCCACACTTCTGAAGGTAGAAGTGAAGTCCCTCAGGTTTATTCCACCTTCAATGAGCCTG  
 CTAAGAACATCCAGAACCACAGCAAGAAACC

**ACCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG221265 representing NM\_005930  
 Red=Cloning site Green=Tags(s)

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MEEPGVTPQPYLGLLLEELRRVVAALPEGMRPDSNLYGFPWELVICA AVVGVFFAVLFFLWRSFRSVRSRL
YVGREKKLALML SGLIEEKSKLLEKFSLVQKEYEGYEVESSLK DASF EKEATEAQSLEATCEKLNRSNSE
LEDEILCLEKELKEEKSKHSEQDEL MADISKRIQSLEDESKSLKSQVAEAKMTFKIFQMNEERLKI AIKD
ALNENSQ LQESQKQLLQEA EVWKEQVSELNKQKVTFEDSKVHAEQVLNDKESH IKT LTERLLKMKDWAAM
LGEDITDDDNLELEMNSESENGAYLDNPPKGALKKLIHAAKLNASLKTLEGERNQIYIQLSEVDKTK EEL
TEHIKNLQTEQASLQSENTHFENENQKLQKLVMT ELYQENEMKLRKLTVEENYRLEK EEKLSKVDEK
ISHATEELETYRKRAKDLEEEELERTIHSYQGQIISHEKKAHDNWL AARNAERNLNDLRKENA HNRQKLTE
TELKFELLEKDPYALDVPNTAFGREHSPYGPSPLGWPSSETRAFLSPPTLLEGPLRLSPLLPGGGGRGSR
GPGNPLDHQITNERGESSCDRLTDPHRAPSDTGSL SPPWDQDRRMMFPPPGQSYPD SALPPQRQDRFC SN
SGRLSGPAELRSFNMPSLDKMDGSMPSSESSRNDTKDDLGNLNVPDSSLP AENEATGPGFVPPPLAPIR
GPLFPVDARGPFLRRGPPFPPPPGAMFGASRDYFPPGDFPGPPPAPFAMRN VYPPRGFPPYLPPRPGFF
PPPPHSEGRSEFP SGLIPPSNEPATEHPEPQQET
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



- ACCN:** NM\_005930
- ORF Size:** 2412 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\\_005930.4](#)

**RefSeq Size:** 3852 bp

**RefSeq ORF:** 2415 bp

**Locus ID:** 4253

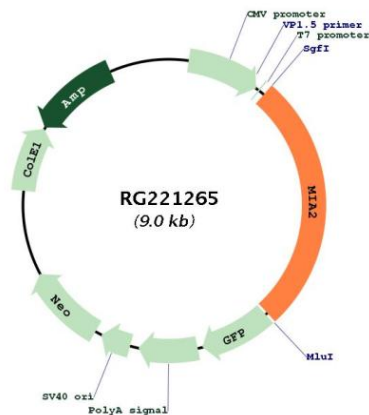
**UniProt ID:** [Q96PC5](#)

**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 RG221265