

## Product datasheet for **RG211659**

### CTAG2 (NM\_172377) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CTAG2 (NM\_172377) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CTAG2  
**Synonyms:** CAMEL; CT2; CT6.2; CT6.2a; CT6.2b; ESO2; LAGE-1; LAGE2B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211659 representing NM\_172377  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATCGAGGCCAAGGCCGGGGCACAGGGGTTTCGACGGGCGATGCTGATGGCCAGGAGGCCCTGGCATTCTGATGGCCAGGGGCAATGCTGGCGGCCAGGAGAGCGGGTGCCACGGCGGCAGAGGTCCCCGGGGCGCAGGGGCAGCAAGGGCCTCGGGGCCAGAGGAGGCGCCCGCGGGGTCCGCATGGCGGTGCCGTTCTGCGCAGGATGGAAGGTGCCCTCGGGGCCAGGAGGCCGGACAGCCGCTGCTTGAGTTGCACATCACGATGCTTTCTCGTCGCCATGGAAGCGGAGCTGGTCCGAGGATCCTGTCCGGGATGCCGCACCGCTCCC  
 CCGACCAGGGGGCTTCTGAAGGACTTACCGTGTCCGGCAACCTACTGTTTATCCGACTGACTGCTGCA  
 GACCACCGCCAAGTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGCTTCCCTGTTGATGTGGATCACGC  
 AGTGCTTTCTGCCGTGTTTTGGCTCAGGCTCCCTCAGGGCAGAGGCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG211659 representing NM\_172377  
 Red=Cloning site Green=Tags(s)

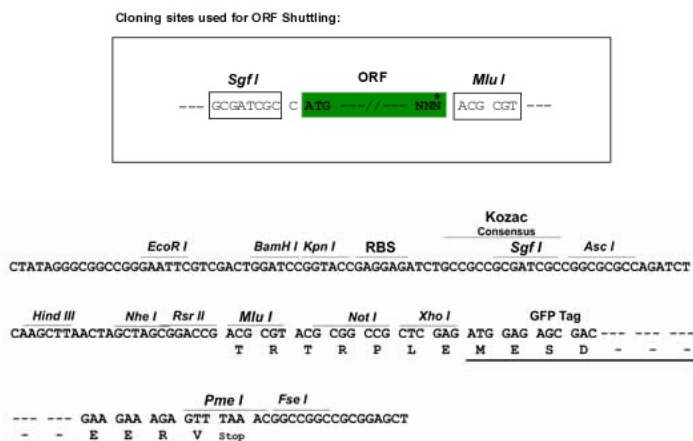
MQAEGRGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGAARASGPRGGAPRPHGGAAS  
 AQDGRPCGARRPDSRLLLEHITMPFSSPMEAEVRRILSRDAAPLPRGAVLKDFTVSGNLLFIRLTA  
 DHRQLQLSISSCLQQLSLLMWITQCFLPVFLAQAPSGQRR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_172377

**ORF Size:** 540 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\\_172377.4](#)

**RefSeq Size:** 766 bp

**RefSeq ORF:** 543 bp

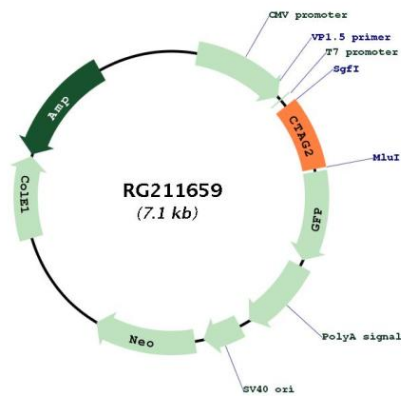
**Locus ID:** 30848

**UniProt ID:** [O75638](#)

Cytogenetics: Xq28

Gene Summary: This gene encodes an autoimmunogenic tumor antigen that belongs to the ESO/LAGE family of cancer-testis antigens. This protein is expressed in a wide array of cancers including melanoma, breast cancer, bladder cancer and prostate cancer. This protein is also expressed in normal testis tissue. An alternative open reading frame product of this gene has been described in PMID:10399963. This alternate protein, termed CAMEL, is a tumor antigen that is recognized by melanoma-specific cytotoxic T-lymphocytes. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

## Product images:



Circular map for RG211659