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Product datasheet for RG201190

CTAG2 (NM_020994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTAG2 (NM_020994) 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:

>RG201190 representing NM_020994
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGCCGAAGGCCAGGGCACAGGGGGTTCGACGGGCGATGCTGATGGCCCAGGAGGCCCTGGCATTC
CTGATGGCCCAGGGGGCAATGCTGGCGGCCCAGGAGAGGCGGGTGCCACGGGCGGCAGAGGTCCCCGGGG
CGCAGGGGCAGCAAGGGCCTCGGGGCCGAGAGGAGGCGCCCCGCGGGGTCCGCATGGCGGTGCCGCTTCT
GCGCAGGATGGAAGGTGCCCCTGCGGGGCCAGGAGGCCGGACAGCCGCCTGCTTCAGTTGCACATCACGA
TGCCTTTCTCGTCGCCCATGGAAGCGGAGCTGGTCCGCAGGATCCTGTCCCGGGATGCCGCACCTCTCCC
CCGACCAGGGGCGGTTCTGAAGGACTTCACCGTGTCCGGCAACCTACTGTTTATGTCAGTTCGGGACCAG
GACAGGGAAGGCGCTGGGCGGATGAGGGTGGTGGGTTGGGGGCTGGGATCCGCCTCCCCGGAGGGGCAGA
AAGCTAGAGATCTCAGAACACCCAAACACAAGGTCTCAGAACAGAGACCTGGTACACCAGGCCCGCCGCC
ACCCGAGGGAGCCCAGGGAGATGGGTGCAGAGGTGTCGCCTTTAATGTGATGTTCTCTGCCCCTCACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201190 representing NM_020994
Red=Cloning site Green=Tags(s)

MQAEGQGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGAARASGPRGGAPRGPHGGAAS
AQDGRCPCGARRPDSRLLQLHITMPFSSPMEAELVRRILSRDAAPLPRPGAVLKDFTVSGNLLFMSVRDQ
DREGAGRMRVVGWGLGSASPEGQKARDLRTPKHKVSEQRPGTPGPPPPEGAQGDGCRGVAFNVMFSAPHI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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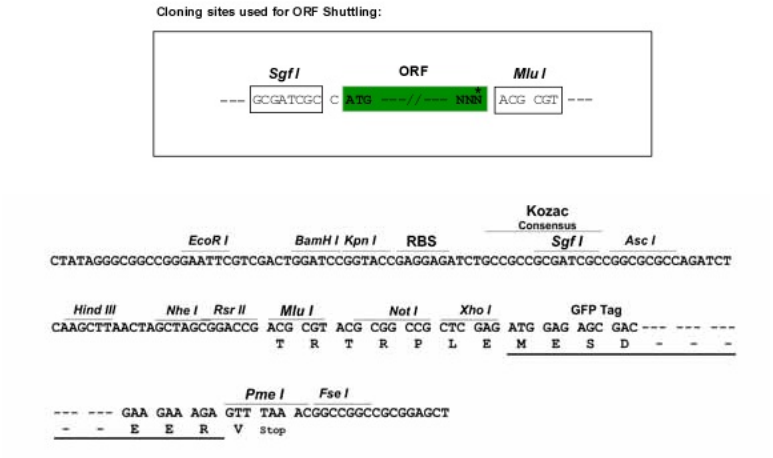
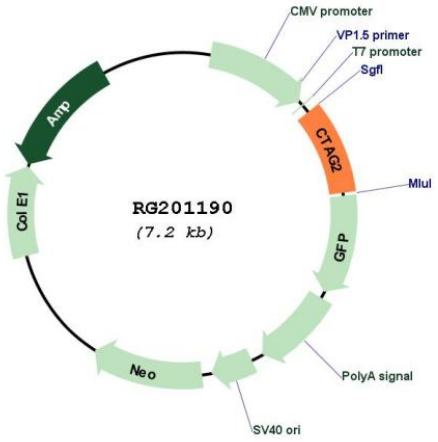
Cloning Scheme:



Plasmid Map:



ACCN: NM_020994

ORF Size: 630 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020994.3, NP_066274.1

RefSeq Size: 1002 bp

RefSeq ORF: 633 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]