

Product datasheet for **SC122899**

CTAG2 (NM_020994) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CTAG2 (NM_020994) Human Untagged Clone
Tag: Tag Free
Symbol: CTAG2
Synonyms: CAMEL; CT2; CT6.2; CT6.2a; CT6.2b; ESO2; LAGE-1; LAGE2B
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF:

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>OriGene sequence for NM_020994 edited
GGCAGAGGCTCCGGAGCCATGCAGGCCGAAGGCCGGGGCACAGGGGGTTCGACGGGCGAT
GCTGATGGCCCAGGAGGCCCTGGCATTCTGATGGCCCAGGGGGCAATGCTGGCGGCCCA
GGAGAGGCGGGTGCCACGGGCGGCAGAGGTCCCCGGGGCGCAGGGGCAGCAAGGGCCTCG
GGGCCGAGAGGAGGCGCCCCGCGGGTCCGCATGGCGGTGCCGCTTCTGCGCAGGATGGA
AGGTGCCCTGCGGGGCCAGGAGCCGGACAGCCGCTGCTTGAGTTGCACATCACGATG
CCTTTCTCGTCCCATGGAAGCGGAGCTGGTCCGCAGGATCCTGTCCCGGATGCCGCA
CCGCTCCCCGACCAGGGGCGTTCTGAAGGACTTCACCGTGTCCGGCAACCTACTGTTT
ATGTCAGTTCCGGACCAGGACAGGAAGCGCTGGGCGGATGAGGGTGGTGGGTTGGGG
CTGGGATCCGCTCCCCGAGGGGCAGAAAGCTAGAGATCTCAGAACACCCAAACACAAG
GTCTCAGAACAGAGACCTGGTACACCAGGCCCGCCACCCGAGGGAGCCAGGGAGAT
GGGTGCAGAGGTGTCGCTTTAATGTGATGTTCTCTGCCCTCACATTTAGCCGACTGAC
TGCTGCAGACCACCGCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGCTTCCCT
GTTGATGTGGATCACGCAGTGCTTTCTGCCCGTGTGTTTGGCTCAGGCTCCCTCAGGGCA
GAGGCGTAAGCCAGCCTGGCGCCCTTCTAGGTATGCTCCTCCCTAGGGAATGG
TCCCAGCACGAGTGGCCAGTTTATTGTGGGGCCTGATTGTTTGTGCTGGAGGAGGACG
GCTTACATGTTTGTGTTCTGTAGAAAATAAAGCTGAGCTACGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020994 unedited GGGGAACGTCATATATTGTAATACGACTCACTAAGGCGGCACGCGAATTCGCACGAGGGG CAGAGGCTCCGGNACCATGCAGGCCGAAGGCCGGGGCACAGGGGGTTTCGACGGGCGATGC TGATGGCCAGGAGGCCCTGGCATTCTGATGGCCAGGGGGCAATGCTGGCGGCCCATG AGAGGCGGGTGCACGGGCGGCAGAGGTCCCCGGGGCGCATGGGCAGCAAGGGCCTCGGG GCCGAGAGGAGGCGCCCCGCGGGTCCGCATGGCGGTGCCGTTCTGCGCAGGATGGAAG GTGCCCCGCGGGGCGAGAGGCCGACAGCCGCTGCTTGAGTTGCACATCACGATGCC TTTCTCGTCGCCATGGAAGCGGAGCTGGTCCGCAGGATCCTGTCCCGGATGCCGACC GCTCCCCGACAGGGGCGGTTCTGAAGGACTTACCGTGTCCGCAACCTACTGTTTAT GTCAGTTCGGGACCAGGACAGGGAAGGCGCTGGGCGGATGAGGGTGGTGGTTGGGGAGC TGGGGATCCGCTCCCCGAGGGGCAGAAAGCTAGAGATCTCAGAACACCCAAACACAAG GTCTCAGAACAGAGACCTGGTACACCAGGCCCGCCACCCGAGGGAGCCAGGGAGAT GGGTGCAGAGGTGTCGCTTTAATGTGATGTTCTCTGCCCTCACATTTAGCCGACTGAC TGCTGCAGACCACGCCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGCTTCCCT GTTGATGTGGATCACGCAGTGTCTTCTGCCGTGTTTTGGCTCANGCTCCCTCAGGGCA NGAGCGCTAAGCCAGCCTGGGCGCCCTTCTAGGTCATGCCTNCTTCCCTAGGGGATGG TCCCAGCACGAGTGGCC</p>
Restriction Sites:	Please inquire
ACCN:	NM_020994
Insert Size:	993 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_020994.2 , NP_066274.1
RefSeq Size:	991 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]
Transcript Variant: This variant (2) has an additional segment in the 3' coding region which results in a frameshift, compared to variant 1. The encoded isoform (LAGE-1b, also known as LAGE-1L) is longer and has a distinct C-terminus, compared to isoform LAGE-1a.