

Product datasheet for **RC222082**

GGTLC2 (NM_199127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGTLC2 (NM_199127) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGTLC2
Synonyms:	GGTL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222082 representing NM_199127 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTCTGAGTTCTTCGCTGCCAGCTCCGGGCCAGATCTCTGACGACACCACTCACCCGATCTCCT
ACTACAAGCCCGAGTTCTACACGCCGTTGATGGGGGCACTGCTCACCTGTCTGTCGTCGCAGAGGACGG
CAGTGTGTGTCGCCACCAGCACCATCAACCTCTACTTTGGCTCCAAGTCCGCTCCCCGGTCAGCGAG
ATCCTGTTCAATGATGAAATGGATGACTTCAGCTCTCCAACATACCAACGAGTTTGGGGTGCCCCCT
CACCTGCCAATTCATCCAGCCAGGAAGCAGCCGCTCTCGTCAATGTGCCGACGATCATGGTGGGCCA
GGACGGCCAGCCCCAAGCCATGCTGATCACACTCCCATGCCCCAGGCCATCATCTACAACCTCTGGTTC
GGCTATGACGTGAAGCGGGCCGTGGAGGAGCCCCGGCTGCACAACCAGTTCTGCCCAACGTCACGACAG
TGGAGAGAAACATTGACCAGGCAGTGAAGCCATCGTCCGCACGGCTGGTGGCTGGGAGACCCGGCACCATCACACCCAGATCGCGTC
CACCTTCATCGCTGTGGTGAAGCCATCGTCCGCACGGCTGGTGGCTGGGAGCTGCCTCGGACTCCAGG
AAAGGCGGGGAGCCTGCCGGCTAC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222082 representing NM_199127
Red=Cloning site Green=Tags(s)

MTSEFFAAQLRAQISDDTTHPISYYKPEFYTPVDGGTAHLSVVAEDGSAVSATSTINLYFGSKVRSVPVSE
 ILFNDEMDDFSSPNITNEFGVPPSPANFIQPGKQPLSSMCPTIMVGDGQPPSHADHTPMPQAIINYLWF
 GYDVKRAVEEPRLLHNQLLPNVTTVERNIDQAVTAALETRHHHTQIASTFIQAVVQAIVRTAGGWAAASDSR
 KGGEPAGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199127

ORF Size: 654 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_199127.2](#), [NP_954578.2](#)

RefSeq Size: 855 bp

RefSeq ORF: 657 bp

Locus ID: 91227

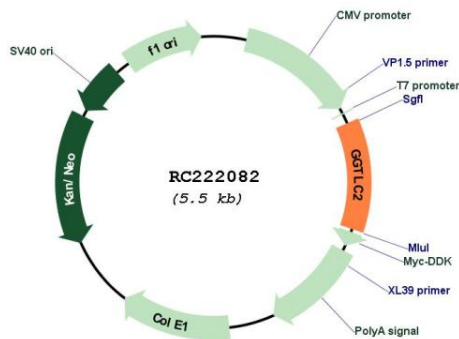
UniProt ID: [Q14390](#)

Cytogenetics: 22q11.22

MW: 23.5 kDa

Gene Summary: This gene encodes a protein related to enzymes that cleaves gamma-glutamyl peptide bonds in glutathione and other peptides. Unlike similar proteins, the encoded protein contains only the light chain portion and may not have catalytic activity. Alternative splicing results in multiple transcript variants. There are several related family members and related pseudogene for this gene situated in the same region of chromosome 22. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC222082