

Product datasheet for RG204881

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Cathepsin G (CTSG) (NM_001911) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cathepsin G (CTSG) (NM_001911) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Cathepsin G

Synonyms: CATG; CG

Selection:

Mammalian Cell

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG204881 representing NM_001911

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Cathepsin G (CTSG) (NM_001911) Human Tagged ORF Clone - RG204881

Protein Sequence: >RG204881 representing NM_001911

Red=Cloning site Green=Tags(s)

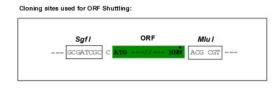
MQPLLLLAFLLPTGAEAGEIIGGRESRPHSRPYMAYLQIQSPAGQSRCGGFLVREDFVLTAAHCWGSNI NVTLGAHNIQRRENTQQHITARRAIRHPQYNQRTIQNDIMLLQLSRRVRRNRNVNPVALPRAQEGLRPGT LCTVAGWGRVSMRRGTDTLREVQLRVQRDRQCLRIFGSYDPRRQICVGDRRERKAAFKGDSGGPLLCNNV AHGIVSYGKSSGVPPEVFTRVSSFLPWIRTTMRSFKLLDQMETPL

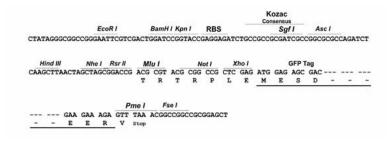
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_001911

ORF Size: 765 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: <u>NM 001911.3</u>

 RefSeq Size:
 924 bp

 RefSeq ORF:
 768 bp

 Locus ID:
 1511

 UniProt ID:
 P08311

Cytogenetics: 14q12

Domains: Tryp_SPc

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome, Neuroactive ligand-receptor interaction, Renin-angiotensin system, Systemic lupus

erythematosus

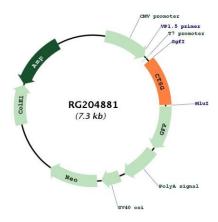
Gene Summary: The protein encoded by this gene, a member of the peptidase S1 protein family, is found in

azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. In addition, the encoded protein is antimicrobial, with bacteriocidal activity against S. aureus and N. gonorrhoeae. Transcript variants utilizing alternative polyadenylation signals exist for

this gene. [provided by RefSeq, Sep 2014]



Product images:



Circular map for RG204881