

Product datasheet for **SC319652**

Cathepsin G (CTSG) (NM_001911) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin G (CTSG) (NM_001911) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathepsin G
Synonyms:	CATG; CG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_001911.2</p> <pre>GCACAGCAGCAACTGACTGGGCAGCCTTTCAGGAAAGATGCAGCCACTCCTGCTTCTGCT GGCCTTTCTCCTACCCACTGGGGCTGAGGCAGGGGAGATCATCGGAGGCCGGGAGAGCAG GCCCCACTCCCGCCCTACATGGCGTATCTTCAGATCCAGAGTCCAGCAGGTCAGAGCAG ATGTGGAGGGTTCCTGGTGCGAGAAGACTTTGTGCTGACAGCAGCTCATTGCTGGGGAAG CAATATAAATGTCACCCTGGCGGCCACAATATCCAGAGACGGGAAAACCCAGCAACA CATCACTGCGCGCAGAGCCATCCGCCACCCTCAATATAATCAGCGGACCATCCAGAATGA CATCATGTTATTGCAGCTGAGCAGAAGAGTCAGACGGAATCGAAACGTGAACCCAGTGGC TCTGCCTAGAGCCAGGAGGGACTGAGACCCGGGACGCTGTGCACTGTGGCCGGTGGGG CAGGGTCAGCATGAGGAGGGGAACAGATACTCCGAGAGGTGCAGCTGAGAGTGCAGAG GGATAGGCAGTGCCTCCGCATCTTCGGTTCCTACGACCCCGAAGGCAGATTTGTGTGGG GGACCGCGGGAACGGAAGGCTGCCTTCAAGGGGATTCCGGAGGCCCCCTGCTGTGTAA CAATGTGGCCACGGCATCGTCTCCTATGAAAAGTCGTCAGGGGTTCTCCAGAAGTCTT CACCAGGGTCTCAAGTTTCTGCCTGGATAAGGACAACAATGAGAAGCTTCAAAGTCTGCT GGATCAGATGGAGACCCCTGTGACTGACTCTTCTTCTCGGGGACACAGGCCAGCTCCA CAGTGTGCCAGAGCCTTAATAAACGTCCACAGAGTATAAATAAAAAAAAAAAAAAAAAAA A</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001911
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001911.2 , NP_001902.1
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 <i>S. aureus</i> and <i>N. gonorrhoeae</i> . Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Sep 2014]