

Product datasheet for **SC126062**

Granzyme H (GZMH) (BC027974) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Granzyme H (GZMH) (BC027974) Human Untagged Clone
Tag:	Tag Free
Symbol:	Granzyme H
Synonyms:	CCP-X; CGL-2; CSP-C; CTLA1; CTSGL2; cytotoxic T-lymphocyte-associated serine esterase 1; cytotoxin serine protease-C; granzyme H; granzyme H (cathepsin G-like 2, protein h-CCPX)
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC027974 edited

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GGAGTCAACACCAACAGCTCTGACCTGGGCAGCCTTCTGAGAAAATGCAGCCATTCCCT  
CTCCTGTTGGCCTTTCTCTGACCCCTGGGGCTGGGACAGAGGAGATCATCGGGGCCAT  
GAGGCCAAGCCCCACTCCC GCCCTACATGGCCTTTGTTCAAGTTTCTGCAAGAGAAGAGT  
CGGAAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGCTGACAGCTGCTCACTGC  
CAGGGAAGCTCCATAAATGTACCTTGGGGGCCACAATATCAAGGAACAGGAGCGGACC  
CAGCAGTTTATCCCTGTGAAAAGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTC  
TCCAACGACATCATGCTACTGCAGCTGGAGAGAAAAGCCAAGTGGACCACAGCTGTGCGG  
CCTCTCAGGCTACCTAGCAGCAAGGCCAGGTGAAGCCAGGCGAGCTGTGCAGTGTGGCT  
GGCTGGGGTTATGTCTCAATGAGCACTTTAGCAACCACTGCAGGAAGTGTGCTGACA  
GTGCAGAAAGGACTGCCAGTGTGAACGTCTTCCATGGCAATTACAGCAGAGCCACTGAG  
ATTTGTGTGGGGATCCAAAGAAGACACAGACCGGTTTCAAGGGGACTCCGGGGGGCC  
CTCGTGTGTAAGGACGTAGCCAAAGGTATTCTCTCCTATGAAAACAAAAAAGGGACACCT  
CCAGGAGTCTACATCAAGGTCTCACACTTCTGCCTGGATAAAGAGAACAATGAAGCGC  
CTTAACAGCAGGCATGAGACTAACCTTCTCTGGGCCTGACCATCTCTGGGACAGAGGC  
AAGAATCCCAAGGGGTGGGCAGTCAAGGTTGCAGGACTGTAATAAATGGATCTCTGGT  
TAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC027974 unedited NGGGTCGATTTTTGTATACGACTCATATAGGCGGCCGCGNAATTCNATCTGGTACCGGTC CGGAATCCCAGGATGGAGTCAACACCAACAGCTCTGACCTGGGCAGCCTTCCTGAGAAA ATGCAGCCATTCTCCTCCTGTTGGCCTTTCTTCTGACCCCTGGGGCTGGGACAGAGGAG ATCATCGGGGCCATGAGGCCAAGCCCCACTCCGCCCCATACATGGCCTTTGTTCAAGTTT CTGCAAGAGAAGAGTCGGAAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGCTG ACAGCTGCTCACTGCCAGGGAAGTCCATAAATGTCACCTTGGGGGCCACAATATCAAG GAACAGGAGCGGACCCAGCAGTTTATCCCTGTGAAAAGACCCATCCCCATCCAGCCTAT AATCCTAAGAACTTCTCCAACGACATCATGCTACTGCAGCTGGAGAGAAAAGGCCAAGTGG ACCACAGCTGTGCGGCCTCTCAGGCTACCTAGCAGCAAGGCCAGGTGAAGCCAGGGCAG CTGTGCAGTGTGGCTGGCTGGGGTTATGTCTCAATGAGCACTTTAGCAACCACACTGCAG GAAGTGTGCTGACAGTGCAGAAGGACTGCCAGTGTGAACGTCTTCCATGGCAATTAC AGCAGAGCCACTGAGATTTGTGTGGGGATCCAAAGAAGACACAGACCGGTTTCAAGGGG GACTCCGGGGGGCCCTCGTGTGTAAGGACGTAGCCCAAGGTATTCTCTCCTATGAAAC AAAAAAGGGACACCTCCAGGAGTCTACATCAAGGTCTCACACTTCTGCCCTGGATAAG AGAACAAATGAAGCGCCTAACAGCAGGCATGAGACTAACCTTCTCTGGGCCTGACCAT CTCTGGA
Restriction Sites:	NotI-NotI
ACCN:	BC027974
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:	BC027974.1 , AAH27974.1
RefSeq Size:	1047 bp
Locus ID:	2999

Cytogenetics: 14q12

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a member of the peptidase S1 family of serine proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a chymotrypsin-like protease. This protein is reported to be constitutively expressed in the NK (natural killer) cells of the immune system and may play a role in the cytotoxic arm of the innate immune response by inducing target cell death and by directly cleaving substrates in pathogen-infected cells. This gene is present in a gene cluster with another member of the granzyme subfamily on chromosome 14. [provided by RefSeq, Nov 2015]