

Product datasheet for **SC320921**

Granzyme A (GZMA) (NM_006144) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Granzyme A (GZMA) (NM_006144) Human Untagged Clone
Tag:	Tag Free
Symbol:	Granzyme A
Synonyms:	CTLA3; HFSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006144.2
 CAGCCACAATGAGGAACCTCTATAGATTCTGGCATCCTCTCTCTCAGTTGTCGTTTCTC
 TCCTGCTAATTCCTGAAGATGTCTGTGAAAAAATTATTGGAGAAATGAAGTAACTCCTC
 ATTCAAGACCCTACATGGTCTACTTAGTCTTGACAGAAAAACCATCTGTGCTGGGGCTT
 TGATTGCAAAAAGACTGGGTGTTGACTGCAGCTCACTGTAACCTGAACAAAAGGTCCCAGG
 TCATTCTTGGGGCTCACTCAATAACCAGGGAAGAGCCAACAAAACAGATAATGCTTGTTA
 AGAAAGAGTTTCCCTATCCATGCTATGACCCAGCCACACGCGAAGGTGACCTTAACTTT
 TACAGCTGACGAAAAAGCAAAAATTAACAAATATGTGACTATCCTTCATCTACCTAAAA
 AGGGGGATGATGTGAAACCAGGAACCATGTGCCAAGTTGCAGGGTGGGGCAGGACTCACA
 ATAGTGCATCTTGGTCCGATACTCTGAGAGAAGTCAATATCACCATCATAGACAGAAAAG
 TCTGCAATGATCGAAATCACTATAATTTAACCCTGTGATTGGAATGAATATGGTTTGTG
 CTGGAAGCCTCCGAGGTGGAAGAGACTCGTGCAATGGAGATTCTGGAAGCCCTTTGTTGT
 GCGAGGGTGTTCCTGAGGGTCACTTCCTTTGGCCTTAAAAATAAATGCGGAGACCCTC
 GTGGGCCTGGTGTCTATATTCTCTCTCAAAGAAACACCTCAACTGGATAATTATGACTA
 TCAAGGGAGCAGTTTAAATAACCGTTTCCTTTCACTTACTGTGGCTTCTTAATCTTTTCA
 CAAATAAATCAATTTGCATGACTGTAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_006144
Insert Size:	900 bp
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_006144.2 , NP_006135.1
RefSeq Size:	878 bp
RefSeq ORF:	789 bp
Locus ID:	3001
UniProt ID:	P12544
Cytogenetics:	5q11.2
Domains:	Tryp_Spc
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here is a T cell- and natural killer cell-specific serine protease that may function as a common component necessary for lysis of target cells by cytotoxic T lymphocytes and natural killer cells. [provided by RefSeq, Jul 2008]