

Product datasheet for **RG204852**

Granzyme A (GZMA) (NM_006144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Granzyme A (GZMA) (NM_006144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Granzyme A
Synonyms:	CTLA3; HFSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204852 representing NM_006144 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAACCTCTATAGATTTCTGGCATCCTCTCTCAGTTGTCTGTTTCTCTCCTGCTAATTCCTGAAG
ATGTCTGTGAAAAAATTATTGGAGGAAATGAAGTAACTCCTCATTCAAGACCCACATGGTCTACTTAG
TCTTGACAGAAAAACCATCTGTGCTGGGCTTTGATTGCAAAGACTGGGTGTTGACTGCAGCTCACTGT
AACTTGAACAAAAGGTCCAGGTCATTCTTGGGGCTCACTCAATAACCAGGGAAGAGCCAACAAAACAGA
TAATGCTTGTTAAGAAAGAGTTTCCCTATCCATGCTATGACCCAGCCACACGCGAAGGTGACCTTAACT
TTTACAGCTGACGAAAAAGCAAAAATTAACAAATATGTGACTATCCTTCATCTACCTAAAAAGGGGGAT
GATGTGAAACCAGGAACCATGTGCCAAGTTGCAGGGTGGGGCAGGACTCACAATAGTGCATCTTGGTCCG
ATACTCTGAGAGAAGTCAATATCACCATCATAGACAGAAAAGTCTGCAATGATCGAAATCACTATAATTT
TAACCCTGTGATTGGAATGAATATGGTTTGTGCTGGAAGCCTCCGAGGTGGAAGAGACTCGTGCAATGGA
GATTCTGGAAGCCCTTTGTTGTGCGAGGGTGTTCGAGGGGTCACTTCCTTTGGCCTTGAAAAAAT
GCGGAGACCCTCGTGGGCTGGTGTCTATATTCTCTCAAAGAACACCTCAACTGGATAATTATGAC
TATCAAGGGAGCAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204852 representing NM_006144
 Red=Cloning site Green=Tags(s)

MRNSYRFLASSLSVVVSLLLIPEDVCEKIIGGNEVTPHSRPMVLLSLDRKTICAGALIAKDWLTAHHC
 NLNKRSQLGAHSITREEPTKQIMLVKKEFPYPCYDPATREGDLKLLQLTEKAKINKYVTLHLPKKGD
 DVKPGTMCQVAGWRTHNSASWSDTLREVNITIIDRKVCNDRNHYNFNPVIGMNMVCAGSLRGGRDSCNG
 DSGSPLLCEGVFRGVTSFGLNKC G D P R G P G V Y I L L S K K H L N W I I M T I K G A V

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006144

ORF Size: 786 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_006144.3](#)

RefSeq Size: 878 bp

RefSeq ORF: 789 bp

Locus ID: 3001

UniProt ID: [P12544](#)

Cytogenetics: 5q11.2

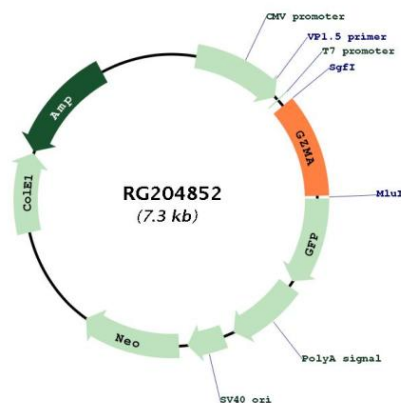
Domains: Tryp_SPc

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]

Product images:



Circular map for RG204852