

Product datasheet for **RG232433**

Caspase-7 (CASP7) (NM_001267056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-7 (CASP7) (NM_001267056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASP7
Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232433 representing NM_001267056 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGATGATCAGGGCTGTATTGAAGAGCAGGGGGTTGAGGATTCAGCAAATGAAGATTCAGTGGATG
CTAAGCCAGACCGGTCTCGTTTGTACCGTCCCTTTCAGTAAGAAGAAGAAAAATGTCACCATGCGATC
CATCAAGACCACCGGGACCGAGTGCCTACATATCAGTACAACATGAATTTTAAAAGCTGGGCAAATGC
ATCATAATAACAACAAGAAGCTTTGATAAAGTACAGGTATGGCGTTTCAAACGGAACAGACAAAGATG
CCGAGGCGCTCTCAAGTCTTCCGAAGCCTGGGTTTTGACGTGATTGTCTATAATGACTGCTCTTGTGC
CAAGATGCAAGATCTGCTTAAAAAGCTTCTGAAGAGGACCATACAAATGCCGCCTGCTTCGCCTGCATC
CTCTTAAGCCATGGAGAAGAAAATGTAATTTATGGGAAAGATGGTGTACACCAATAAAGGATTTGACAG
CCCCTTTAGGGGGATAGATGCAAAACCTTTTAGAGAAACCCAACTCTTCTTCATTACAGGCTTGCCG
AGGGACCGAGCTTGATGATGGCATCCAGGCCGACTCGGGGCCATCAATGACACAGATGCTAATCCTCGA
TACAAGATCCCAGTGGAAGCTGACTTCTTTCGCCTATTCCACGGTTCAGGCTATTACTCGTGGAGGA
GCCAGGAAGAGGCTCCTGGTTTGTGCAAGCCCTCTGCTCCATCCTGGAGGAGCACGGAAAAGACCTGGA
AATCATGCAGATCCTCACCAGGGTGAATGACAGAGTTGCCAGGCCTTTGAGTCTCAGTCTGATGACCCA
CACTTCCATGAGAAGAAGCAGATCCCCTGTGTGGTCTCCATGCTCACCAAGGAAGCTACTTCAGTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232433 representing NM_001267056
 Red=Cloning site Green=Tags(s)

MADDQGCIEEQGVEDSANEDSVDAKPDRSSFVPSLFSKSKKKNVTMRSIKTTRDRVPTYQYNMNFELGKC
 I IINNKNFDKVTGMGVRNGTDKDAEALFKCFRSLGFDVIVYNDSCAKMQDLLKKASEEDHTNAACFACI
 LLSHGEENVYIGKDGVTPIKDLTAHFRGDRCKTLLEKPKLFFIQACRGTELDGDIQADSGPINDTDANPR
 YKIPVEADFLFAYSTVPGYYSWRSPGRGSWFVQALCSILEEHGKDLIMQILTRVNDRVARHFESQSDDP
 HFHEKKQIPCVSMLTKELYFSQ

TRTRPLE - GFP Tag - V

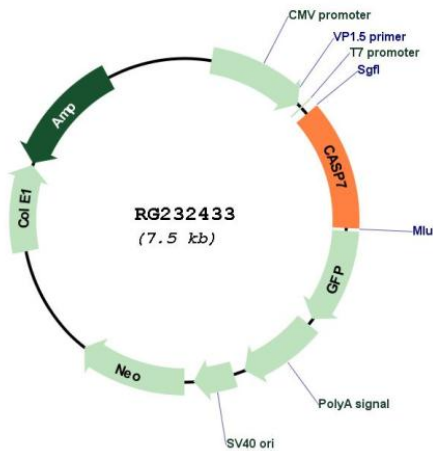
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001267056

ORF Size: 909 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:	<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_001267056.1 , NP_001253985.1
RefSeq Size:	2485 bp
RefSeq ORF:	912 bp
Locus ID:	840
UniProt ID:	P55210
Cytogenetics:	10q25.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alzheimer's disease, Apoptosis
Gene Summary:	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]