

Product datasheet for **RC223662**

Caspase 3 (CASP3) (NM_004346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 3 (CASP3) (NM_004346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 3
Synonyms:	CPP32; CPP32B; SCA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223662 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAACACTGAAAACCTCAGTGGATTCAAATCCATTAAAAATTTGGAACCAAAGATCATACATGGAA
GCGAATCAATGGACTCTGGAATATCCCTGGACAACAGTTATAAAATGGATTATCCTGAGATGGGTTTATG
TATAATAATTAATAAAGAATTTTCATAAAAGCACTGGAATGACATCTCGGTCTGGTACAGATGTCGAT
GCAGCAAACCTCAGGGAAACATTCAGAACTTGAAATATGAAGTCAGGAATAAAATGATCTTACACGTG
AAGAAATTGTGGAATTGATGCGTGATGTTTCTAAAGAAGATCACAGCAAAGGAGCAGTTTTGTTTGTGT
GCTTCTGAGCCATGGTGAAGAAGGAATAATTTTTGGAACAAATGGACCTGTTGACCTGAAAAAATAACA
AACTTTTTTCAGAGGGGATCGTTGTAGAAGTCTAACTGGAAAACCCAAACTTTTTTCATTATTCAGGCCTGCC
GTGGTACAGAACTGGACTGTGGCATTGAGACAGACAGTGGTGTGATGATGACATGGCGTGCATAAAAT
ACCAGTGGAGGCCGACTTCTTGTATGCATACTCCACAGCACCTGGTTATTATTCTTGCGAAATTCAAAG
GATGGCTCCTGGTTATCCAGTCGCTTTGTGCCATGCTGAAACAGTATGCCGACAAGCTTGAATTTATGC
ACATTCTTACCCGGTTAACCAGAAAGGTGGCAACAGAATTTGAGTCCTTTTCTTTGACGCTACTTTTCA
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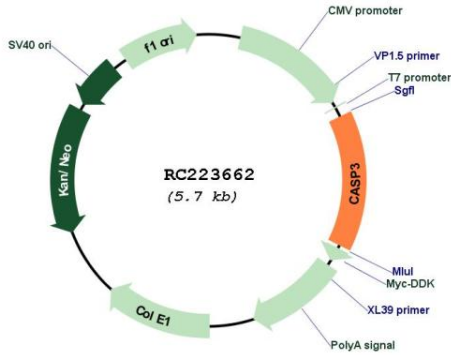
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



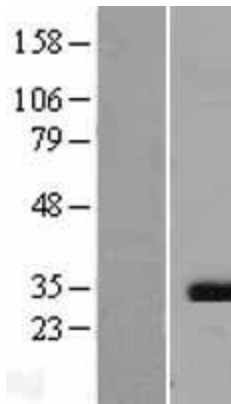
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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_004346.4
RefSeq Size:	2689 bp
RefSeq ORF:	834 bp
Locus ID:	836
UniProt ID:	P42574
Cytogenetics:	4q35.1
Domains:	CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, Huntington's disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Parkinson's disease, Pathways in cancer, Viral myocarditis
MW:	31.6 kDa
Gene Summary:	The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. [provided by RefSeq, Aug 2017]

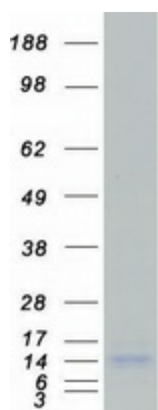
Product images:



Circular map for RC223662



Western blot validation of overexpression lysate (Cat# [LY418048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223662 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CASP3 protein (Cat# [TP323662]). The protein was produced from HEK293T cells transfected with CASP3 cDNA clone (Cat# RC223662) using MegaTran 2.0 (Cat# [TT210002]).