

Product datasheet for RC203233

CAPNS1 (NM_001003962) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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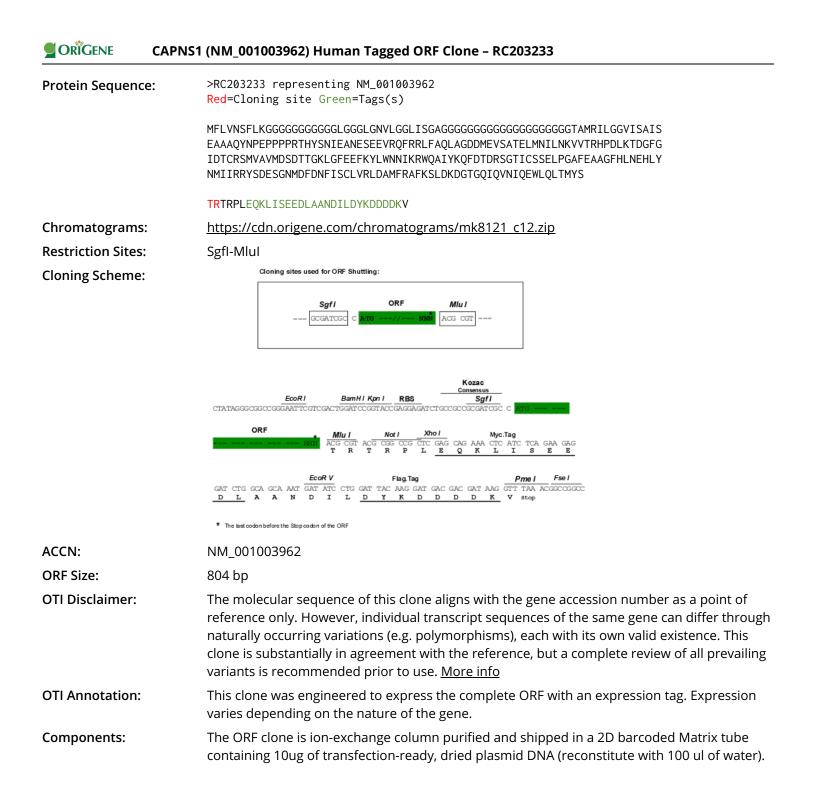
Product Type:	Expression Plasmids
Product Name:	CAPNS1 (NM_001003962) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAPNS1
Synonyms:	CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC203233 representing NM_001003962 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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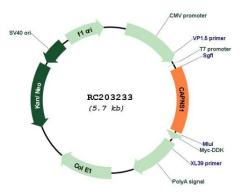
Service CAPNS1 (NM_001003962) Human Tagged ORF Clone – RC203233

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the battern
	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:	<u>NM 001003962.3</u>
RefSeq Size:	1489 bp
RefSeq ORF:	807 bp
Locus ID:	826
UniProt ID:	<u>P04632</u>
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, Protease
MW:	28.8 kDa
Gene Summary:	This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has

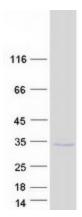
neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

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Product images:



Circular map for RC203233



Coomassie blue staining of purified CAPNS1 protein (Cat# [TP303233]). The protein was produced from HEK293T cells transfected with CAPNS1 cDNA clone (Cat# RC203233) using MegaTran 2.0 (Cat# [TT210002]).

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