OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH315171

Calpain 9 (CAPN9) (NM_006615) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CAPN9 MS Standard C13 and N15-labeled recombinant protein (NP_006606)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215171
Predicted MW:	78.9 kDa
Protein Sequence:	>RC215171 representing NM_006615 Red=Cloning site Green=Tags(s) MPYLYRAPGPQAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLFYSERPQIPFVWKRP GEIVKNPEFILGGATRTDICQGELGDCWLLAAIASLTLNQKALARVIPQDQRFGPGYAGIFHFQFWQHSE WLDVVIDDRLPTFRDRLVFLHSADHNEFWSALLEKAYAKLNGSYEALKGGSAIEAMEDFTGGVAETFQTK EAPENFYEILEKALKRGSLLGCFIDTRSAAESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRIRNPW GQVEWNGSWSDSSPEWRSVGPAEQKRLCHTALDDGEFWMAFQDFKAHFDKVEICNLTPDALEEDAIHKWE VTVHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTEKDEGQEECSFLVALMQKDRRKLKRFGANVLTIGY AIYECPDKDEHLNKDFFRYHASRARSKTFINLREVSDRFKLPPGEYILIPSTFEPHQEADFCLRIFSEKK AITRDMDGNVDIDLPEPPKPTPPDQETEEEQRFRALFEQVAGEDMEVTAEELEYVLNAVLQKKKDIKFKK LSLISCKNIISLMDTSGNGKLEFDEFKVFWDKLKQWINLFLRFDADKSGTMSTYELRTALKAAGFQLSSH LLQLIVLRYADEELQLDFDDFLNCLVRLENASRVFQALSTKNKEFIHLNINEFIHLTMNI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006606
RefSeq Size:	2362

View online »

RefSeq ORF: 2070

Synonyms: GC36; nCL-4

Locus ID: 10753

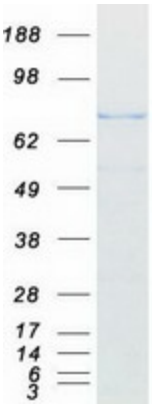
UniProt ID: O14815, Q6PIV8

Cytogenetics: 1q42.2

Summary: Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified CAPN9 protein (Cat# [TP315171]). The protein was produced from HEK293T cells transfected with CAPN9 cDNA clone (Cat# [RC215171]) using MegaTran 2.0 (Cat# [TT210002]).