

# Recombinant Full Length Human CAPN2 Protein, GST-tagged

Cat. No. CAPN2-2820HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CAPN2 full-length ORF (AAH21303.1, 1 a.a. - 700 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	700 amino acids
<b>Description</b>	<p>The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]</p>
<b>Molecular Mass</b>	106.4 kDa
<b>AA Sequence</b>	<p>MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPSAL            GFKELGPYSSKTRGIEWKRPTEICADPQFIIGGATRTRDQCQALGDCWLLAAIASLTL            NEEILARVVPLNQSFAQENYAGIFHFQFWQYGEWVEVVDDRLPTKDGELLFVHSAE            GSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGGIAEWYELKKPPPNIKIIQK            ALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEVEVESNGSLQKLIRIRNPW</p>

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GEVEWTGRWINDNCPSWNTIDPEERERLTRRHEDGEFWMSFSDFLRHYSRLEICNL  
 TPDTLTSDTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEEDEDE  
 EDGESGCTFLVGLIQKHRRRQRKMGEDMHTIGFGIYEVPEELSGQTNIHLSKNFFLT  
 NRARERSDTFINLREVLNRFKLPPGEYILVPSTFEPNKDGDFCIRVFSEKKADYQAVD  
 DEIEANLEEFDISEDIDDGFRRLFAQLAGEDAEISAFELQILRRVLAKRQDIKSDGF  
 SIETCKIMVDMLDSDGSGKLGLKEFYILWTKIQKYQKIYREIDVDRSGTMNSYEMRKA  
 LEEAGFKMPCQLHQVIVARFADDQLIIDFDNFVRCLVRLETFLKIFKQLDPENTGTIEL  
 DLISWLCFSVL

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CAPN2 calpain 2, (m/II) large subunit [ Homo sapiens ]
<b>Official Symbol</b>	CAPN2
<b>Synonyms</b>	CAPN2; calpain 2, (m/II) large subunit; calpain-2 catalytic subunit; CANPL2; CANPml; mCANP; CANP 2; M-calpain; calpain M-type; millimolar-calpain; calpain-2 large subunit; calpain 2, large subunit; calpain large polypeptide L2; calpain, large polypeptide L2; calpain 2, large [catalytic] subunit; calcium-activated neutral proteinase 2; CANP2; FLJ39928;
<b>Gene ID</b>	824



<b>mRNA Refseq</b>	<a href="#">NM_001146068</a>
<b>Protein Refseq</b>	<a href="#">NP_001139540</a>
<b>MIM</b>	<a href="#">114230</a>
<b>UniProt ID</b>	<a href="#">P17655</a>

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