

## Product datasheet for RC213955

### Caspase 2 (CASP2) (NM\_032983) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Caspase 2 (CASP2) (NM\_032983) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CASP2  
**Synonyms:** CASP-2; ICH1; NEDD-2; NEDD2; PPP1R57  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC213955 representing NM\_032983  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCGCCGAGCGCGGGTCTTGGTCCACCTCCAGCACAAGGAGCTGATGGCCGTGACAGGGGAC  
GCAGGATATTGGGAGTGTGTGGCATGCATCCTCATCATCAGGAACTCTAAAAAGAACCGAGTGGTGCT  
AGCCAAACAGCTGTTGTTGAGCGAATTGTAGAACATCTTCTGGAGAAGGACATCATCACCTTGAAATG  
AGGGAGCTCATCCAGGCCAAAGTGGCAGTTTCAGCCAGAATGTGGAACCTCAACTTGCTGCCTAAGA  
GGGGTCCCAAGCTTTTGATGCCTTCTGTGAAGCCTTGCACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213955 representing NM\_032983  
Red=Cloning site Green=Tags(s)

MAAPSAGSWSTFQHKELMAADRGRRIILGVCGMHPHHQETLKKNRVVLAKQLLSSELLEHLLKDIITLEM  
RELIQAKVGSFSQNVLLNLLPKRGPQAFDAFCEALHS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032983.4</a>
<b>RefSeq Size:</b>	4024 bp
<b>RefSeq ORF:</b>	327 bp
<b>Locus ID:</b>	835
<b>UniProt ID:</b>	<a href="#">P42575</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	12.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]