

Datasheet for ABIN4944430

Human CAPN14 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	Calpain 14 (CAPN14)
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human CAPN14 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	2055 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGTCTCTGT GGCCACCTTT CCGATGCAGA TGAAGCTGG CGCCAAGGTA CTCTAGGAGG</p> <p>GCGTCTCCAC AGCAACCCCA ACAGGACTTT GAGGCCCTGC TGCCAGAGTG CCTGAGGAAT</p> <p>GGCTGCCTCT TTGAAGACAC CAGCTTCCCG GCCACCCTGA GCTCCATCGG CAGTGGCTCC</p> <p>CTGCTGCAGA AGCTGCCACC CCGCCTGCAG TGAAGAGGC CCCC GGAGCT GCACAGCAAT</p> <p>CCCCAGTTTT ATTTTGCCAA GGCCAAAAGG CTGGATCTGT GCCAGGGGAT AGTAGGAGAC</p>

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TGCTGGTTCT TGGCTGCTTT GCAAGCTCTG GCCTTGCACC AGGACATCCT GAGCCGGGTT
GTTCCCCTGA ATCAGAGTTT CACTGAGAAG TATGCTGGCA TCTTCCGGTT CTGGTTCTGG
CACTATGGGA ACTGGGTTCC TGTGGTGATC GATGACCGTC TGCCTGTGAA TGAGGCTGGC
CAGCTGGTCT TTGTCTCCTC CACCTATAAG AACTTGTCT GGGGAGCACT TCTGGAAAAG
GCCTATGCCA AGCTCTCTGG TTCCTATGAA GACTTGCAGT CAGGACAGGT GTCTGAAGCC
CTTGTAGACT TCACTGGAGG GGTGACAATG ACCATCAACC TGGCAGAAGC CCATGGCAAC
CTCTGGGACA TCCTCATCGA AGCCACCTAC AACAGAACCC TCATTGGCTG CCAGACCCAC
TCAGGGGAGA AGATTCTGGA GAATGGGCTG GTGGAAGGCC ATGCCTATAC TCTCACAGGA
ATCAGGAAGG TGACCTGCAA ACATAGACCT GAATATCTCG TCAAGCTACG GAACCCCTGG
GGAAAGGTGG AATGGAAAGG AACTGGAGT GACAGTTCAA GTAAATGGGA GCTGCTGAGC
CCCAAGGAGA AGATTCTGCT TCTGAGGAAA GACAATGACG GAGAATTCTG GATGACGCTG
CAGGACTTTA AAACACATTT CGTGCTCCTG GTTATCTGTA AACTGACCCC AGGCCTGTTG
AGCCAGGAGG CGGCCAGAA GTGGACGTAC ACCATGCGGG AGGGGAGATG GGAGAAGCGG
AGCACAGCTG GTGGCCAGAG GCAGTTGCTG CAGGACACAT TTTGGAAGAA CCCGCAGTTC
CTGCTGTCTG TCTGGAGGCC CGAGGAGGGC AGGAGATCCC TGAGGCCCTG CAGCGTGCTG
GTGTCCCTGC TCCAGAAGCC CAGGCACAGG TGCCGCAAGC GGAAGCCTCT CCTCGCCATT
GGCTTCTACC TGTATAGGAT GAACAAGTAC CATGATGACC AGAGGAGACT GCCCCTGAG
TTCTTCCAGA GAAACTCC TCTGAGCCAG CCTGATAGGT TTCTCAAGGA GAAAGAAGTG
AGTCAGGAGC TGTGTCTGGA ACCAGGGACG TACCTCATCG TGCCCTGCAT ATTGAGAGCC
CACCAGAAGT CAGAGTTCGT CCTCAGGGTC TTCTCCAGGA AGCACATCTT TTATGAAAT
GGCAGCAATT CTGGTGTCTG CTTCTCAAAG GAGATAGAAG ACCAAAATGA AAGGCAGGAT
GAATTCTTCA CCAAATCTT TGAAAAGCAT CCAGAGATTA ATGCAGTTCA ACTTCAGAAC
CTCCTGAACC AGATGACCTG GTCAAGTCTG GGGAGCAGAC AGCCCTTCTT TAGCCTGGAA
GCCTGCCAGG GGATCCTGGC CTTACTGGAC CTTAATGCAT CAGGTACTAT GAGCATCCAG
GAATTCAGGG ACCTGTGGAA GCAGCTGAAG CTCTCTCAGA AGGTTTTCCA CAAGCAAGAC
CGTGGGTCAG GATACCTGAA CTGGGAGCAG CTGCACGCTG CCATGAGGGA GGCAGGAATC
ATGCTCAGTG ATGACGTCTG TCAGCTGATG CTCATCCGCT ACGGCGGCC CCGCTCCAG
ATGGACTTTG TCAGTTTCAT CCACTTGATG CTGCGTGTAG AGAACATGGA GGATGTCTTC
CAAACTTAA CCCAAGATGG CAAAGGGATA TACCTCCAGA AGCCAGAGTG GATGATGATG
GCACTGTACT CCTGA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Product Details

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: Calpain 14 (CAPN14)

Alternative Name: CAPN14 ([CAPN14 Products](#))

Background: Calpains are a family of cytosolic calcium-activated cysteine proteases involved in a variety of cellular processes including apoptosis, cell division, modulation of integrin-cytoskeletal interactions, and synaptic plasticity (Dear et al., 2000 [PubMed 10964513]). CAPN14 belongs to the calpain large subunit family.[supplied by OMIM, Mar 2008].

Gene ID: 440854

NCBI Accession: [NM_001145122](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (

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