

Product datasheet for RC202045L3

OriGene Technologies, Inc.

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Calpain 5 (CAPN5) (NM_004055) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Calpain 5 (CAPN5) (NM 004055) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Calpain 5

Synonyms: ADNIV; HTRA3; nCL-3; VRNI

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clo

Sequence:

The ORF insert of this clone is exactly the same as(RC202045).

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Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_004055

ORF Size: 1920 bp





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OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: 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).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

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 004055.3</u>

RefSeq Size:3275 bpRefSeq ORF:1923 bp

Locus ID: 726

 UniProt ID:
 O15484

 Cytogenetics:
 11q13.5

Domains: C2, Calpain III

Protein Families: Druggable Genome, Protease

MW: 73 kDa

Gene Summary: Calpains are calcium-dependent cysteine proteases involved in signal transduction in a variety

of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 lack a calmodulin-like domain IV. Because of the significant similarity to Caenorhabditis elegans sex determination gene tra-3, CAPN5 is also called as HTRA3.

[provided by RefSeq, Jul 2008]