

Product datasheet for RC205220L3

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OriGene Technologies, Inc.

DUSP1 (NM_004417) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DUSP1 (NM 004417) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: DUSP1

Synonyms: CL100; HVH1; MKP-1; MKP1; PTPN10

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 clone is exactly the same as(RC205220).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_004417

ORF Size: 1101 bp





DUSP1 (NM_004417) Human Tagged Lenti ORF Clone - RC205220L3

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 004417.2</u>

 RefSeq Size:
 2015 bp

 RefSeq ORF:
 1104 bp

 Locus ID:
 1843

 UniProt ID:
 P28562

 Cytogenetics:
 5q35.1

Domains: DSPc, RHOD, PTPc motif

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

MW: 39.1 kDa

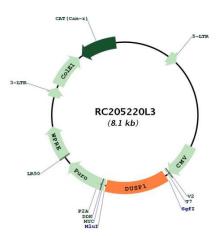
Gene Summary: The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and

threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy. [provided by

RefSeq, Aug 2017]



Product images:



Circular map for RC205220L3