

Product datasheet for SC319175

DUSP2 (NM_004418) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: DUSP2 (NM_004418) Human Untagged Clone

Tag: Tag Free Symbol: DUSP2

Synonyms: PAC-1; PAC1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-AC (PS100020)E. coli Selection:Ampicillin (100 ug/mL)

OriGene Technologies, Inc.

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Fully Sequenced ORF:

>OriGene sequence for NM_004418.2 ACCGCCACGAGAGCCCGGGACGCGGGAAAGACCGAAAGGAAGAGGAAGAGGCACCGGTGG CCATGGGGCTGGAGCCGCGCGAGCTGGAGTGCGCGCGCTGGGCACGCTGCTGCGGG ATCCGCGGGAGGCGGAACGCACGCTGCTGCTGGACTGCCGCCCCTTCCTGGCCTTCTGCC GCGGCCCTCCTGCCGCCGTTCTCGCCTGCCTGCCCGACCGCGCGCTGCGGACGCGCC TGGTCCGCGGGGAGCTGGCGGGCCGTGGTGCTGGACGAGGGCAGTGCCTCGGTGGCGG AGCTCCGGCCCGACAGCCCGGCTCATGTGCTGCTGGCCGCGCTGCTGCACGAGACCCGCG CGGGGCCCACTGCCGTGTACTTCCTGCGAGGAGGCTTCGACGGCTTCCAGGGCTGCTGTC CCGATCTGTGCTCTGAGGCCCCCGCCCCTGCGCTGCCGCCAACAGGGGACAAAACCAGCC GCTCCGACTCCAGGGCTCCTGTCTACGACCAGGGTGGCCCTGTGGAGATCTTGCCCTACC TGTTCCTGGGCAGCTGCAGTCACTCGTCAGACCTGCAGGGGCTGCAGGCCTGTGGCATCA CAGCCGTCCTCAACGTGTCCGCCAGCTGCCCCAACCACTTTGAGGGCCTTTTCCGCTACA AGAGTATCCCTGTGGAGGACAACCAGATGGTGGAGATCAGTGCCTGGTTCCAGGAGGCCA TAGGCTTCATTGACTGGGTGAAGAACAGCGGAGGCCGGGTGCTGGTGCACTGCCAGGCGG GTATCTCGCGCTCTGCCACCATCTGTCTGGCATACCTCATGCAGAGTCGCCGTGTGCGGC TGGACGAGGCCTTTGACTTCGTTAAGCAGCGCCGGGGGGTCATCTCCCCCAACTTCAGTT TCATGGGGCAGCTGCAGTTTGAGACCCAGGTGCTGTGTCACTGAGGTGGTGCCCCTC TGCCTGCCTGCCCACTGTGCTGGCAGGAGCTGACTGTGGACTGGTGGGCTCCCCTCTGG GCCAGCACAGTCCCCTCACCTCTGGCAGGGCTGCTACCTCCTCAGAGTTTCAGAAGCCCC CACATGGGGGCTCTAGGAATGCCGGCATGCTGGTCTTTCCGACCTGGTGCTCTTCTGCTG GGGGACTGAGGCTGGCCCTCATTCGGGGTCGGGAACCAAGGGTGTGTCTGCTCTTTCCCT CCCCATCCTCTGGCAGAAATCAGCTAGACGCTATACCGTGGACTCTCCCTGGTCCACCAC CATGTTGAAGCCCTTGGCAGCCTGAGAGCTCCAAGGAACAAGCTGTGACAACCAGGAGCC CTGTCTGTGGGTTCGTCTGCCCAGGGCCTGGAGCCCAAGCCCTGTGTTCCTGGGGAAGCT TTCCTCCTAGCCCTGTGGGCAGGGGTTGGAAACTTAGCACTTTATATTTATACAGAACAT AAAA

Restriction Sites: Please inquire

ACCN: NM_004418

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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

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OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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 004418.2</u>, <u>NP 004409.1</u>

 RefSeq Size:
 1702 bp

 RefSeq ORF:
 945 bp

 Locus ID:
 1844

 UniProt ID:
 Q05923

 Cytogenetics:
 2q11.2

Domains: DSPc, RHOD, PTPc motif

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a member of the dual specificity protein phosphatase

subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1 and ERK2, is predominantly expressed in hematopoietic tissues, and is localized in the nucleus. [provided]

by RefSeq, Jul 2008]