

Product datasheet for **SC119259**

DUSP9 (NM_001395) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP9 (NM_001395) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP9
Synonyms:	MKP-4; MKP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001395, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGGTCTGGGCCGCTCGTGCCTGTGGCTGCGTCGGGAGCTGTCGCCCCCGCGGCCGCGCTCCTGC
TCCTGGACTGCCGAGCCGCGAGCTGTACGAGTCGGCGCGCATCGGTGGGGCGCTGAGCGTGGCCCTGCC
GGCGCTCCTGCTGCGCCGCTGCGGAGGGGAGCCTGTCGGTGC GCGCGCTCCTGCCTGGGCCGCCGCTG
CAGCCGCCCGCCTGCCCGTCTCCTGTACGACCAGGGCGGGGGCCGGCGCCGGCGCGGGGAGGCCG
AGGCCGAGGCCGAGGAGTGGGAGGCCGAGTCGGTGTGGCACCCTGCTGCAGAAGCTGCGAGAGGAAGG
CTACCTGGCCTACTACCTCCAGGGAGGCTTCAGCAGATTCAGGCCGAGTGCCCTCACCTGTGTGAGACC
AGCCTTGCTGGCCGTGCCGGCTCCAGCATGGCGCCGGTGCCCGGTCCAGTGCCCGTGGTGGGTTGGCA
GCCTGTGCTGGGCTCCGACTGCTCTGATGCGGAATCCGAGGCTGACCGGACTCCATGAGCTGTGGCCT
GGATTCGAGGGTGCCACACCCACCAGTGGGGCTGCGGGCATCCTTCCTGTCCAGATCCTGCCAAC
CTCTATCTGGGCAGTGCCCGGGATTCCGCCAATTTGGAGAGCCTGGCCAACTGGGCATCCGCTACATCC
TCAATGTCAACCCCAACCTCCAAACTTCTTCGAGAAGAATGGTGACTTTCAC TACAAGCAGATCCCAT
CTCCGACCACTGGAGCCAGAACCTGTGCGGTTCTTCCGGAGGCCATTGAGTTCATTGATGAGGCCCTG
TCCCAGAACTGCGGGGTGCTCGTCCACTGCTTGGCGGGGTGACCCGTTCTGTACCGTCACTGTGGCCT
ACCTCATGCAGAAGCTCCACCTCTCTCAACGATGCCTATGACCTGGTCAAGAGGAAGAAGTCTAACAT
CTCCCCAACTTCAACTTCATGGGGCAGTTGCTGGACTTTGAGCGCAGCTTGGCGCTGGAGGAGCGCCAC
TCGACAGGAGCAGGGCAGTGGGGGGCAGGCATCTGCGGCCCTCAACCCGCCCTCCTTCTTACCACCCCA
CCAGTGATGGCGCCTTCGAGCTGGCCCCACCTAG
```



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001395 unedited
GTTCCCATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGAGAACCAG
CAGAGCGGAGCGCCCGTGGTCCAGCGTGTAGGGAGCCGATCGCCCATGGAGGGTCTGGGC
CGCTCGTGCCTGTGGCTGCGTCCGGAGCTGTGCCCCCGCGGCCGCGCTCTGCTCCTG
GACTGCCGCAGCCGCGAGCTGTACGAGTCGGCGCGCATCGGTGGGGCGCTGAGCGTGGCC
CTGCCGGCGCTCCTGCTGCGCCGCTGCGGAGGGGAGCCTGTGCGGTGCGCGCGTCTCTG
CCTGGCCCGCCGCTGCAGCCGCCCTGCCCGTGTCTGTACGACCAGGGCGGG
GGCCGGCCCGCGCGGGGAGGCCGAGGCCGAGGAGTGGGAGGCCGAGTCGGTG
CTGGGCACCTGTGCAGAAGCTGCGAGAGGAAGGCTACCTGGCCTACTACCTCCAGGGA
GGCTTCAGCAGATTCCAGGCCGAGTGCCCTCACCTGTGTGAGACCAGCCTTGCTGGCCGT
GCCGGCTCCAGCATGGCGCCGTGCCCGTCCAGTGCCCGTGGTGGAGTTGGGCAGCCTG
TGCCTGGGCTCCGACTGCTGTGNATGCGAATCCGNAGCTGACCGCGACTCCATGAGCTGT
GGCCTGGATTGAGGGTGCCACACCCNACCAGTGGGGTGGGGCATCCTTCCCTGTC
CAGATCCTGCCCCACCTCTATCTGGGCAGTGGCCGGATTGNCNAATNTGGAGAGCCTGG
NCAAACGGGCATNCGCTACATNNTCATGTACCCCNACCTNCCCAACTTCTTCGAGA
AGAATGGTGACTTCACTANCAGCAGATCCCCATCTCCGACCACTGGNAGCAGAACCTGG
TCGCGTNTCTTCCGGAGCCACTGAGTTCATTGATGAGGCCTTGTCANNACCTGCGGGT
GCT
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_001395 unedited
AAGACCTAAATAACTGTTTNTTCCACTAAGGNAACAATTAAGNAAAGCAACTATGATATG
GATTACAAAAACAACAAGCATAGATCCTCTCCAGGCTCCAGGGTGGAGACGGCCCCACGC
TGCAAAGACTGCCAGCCCTGGGCTGGGTGCATCAGTGGGCTAGCATGTGTGTGTGAGCGC
CGACACGTGCGCACACACAAGCACACACACGCCACCCGCCACCCACAGGGGTGTGGACA
GAAATGAATGACTGTGTGTGTCTGCAGCTTGGCCCTTCCCCACCCCAAGTAGCAGC
GGCTGTGTGGGCCCCGAGCAGCAAAAGTGAAGCCTTCTTCTTCCCTCCCTCCCGAG
CTCTCGCTCTGAGACCCATCTCTCCGGCGGTAGTTTGGCCACCTCACTACAAAGAG
CCCCAGTGATCCCGTCAAGACATCTGGGGGAAGAGGAAAAAAAAAAAAACAAACAGCCC
ACCAGATGTGTGGCCGGGAACCTGCCAGTAGCTCCTAGGCCATGGATGTGGCGGCCAC
TGCACCTCTGGTCCCCATCCCCTGGGAGGCCCCAGCCCCGAGAGGCCCAAGCCCTTGGT
GGAGAAACAGGGAGGTGACAACACCAAGTATGGCAAACGCCTCTCCCCAAGCAGCCACT
GGGATCCAGTGCAACGAGGTGGCACACACCCCTTCTGAAGGGGGAAGCGCAGGGAGGCGC
AGGGCCTAGCCGAGCTGGCTGAGCACCCAGGGCCGGACCTGTGCTGGACACCACCTGN
AGAGGGAACCCCAACCCATCCCGCATAGAAAAAGTAACAGTCGCACAAGAGGCAGGCT
CCGAGCGTGGTCCCGCCATAGGCACGTTGATTAGGACGGCAGCCCGCTGAGGTATTGCG
CTCTCCCCAGCACCCCTGGTGAG
```

Restriction Sites:

NotI-NotI

ACCN:

NM_001395

Insert Size:

2450 bp

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 custsupport@origene.com 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](#)

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: [NM_001395.1](#), [NP_001386.1](#)

RefSeq Size: 2303 bp

RefSeq ORF: 1155 bp

Locus ID: 1852

UniProt ID: [Q99956](#)

Cytogenetics: Xq28

Domains: DSPc, RHOD

Protein Families: 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 is 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 shows selectivity for members of the ERK family of MAP kinases and is localized to the cytoplasm and nucleus. Aberrant expression of this gene is associated with type 2 diabetes and cancer progression in several cell types. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.