

Product datasheet for **SC119258**

DUSP4 (NM_001394) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP4 (NM_001394) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP4
Synonyms:	HVH2; MKP-2; MKP2; TYP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001394 edited
 GAATTCGGCACGAGGAGGAAGGGGACAGGGAAGAAGAGGCTCTCCCGCGGGAGCCCTTGA
 GGACCAAGTTTTCGGCCACTTCTGCAGGCGTCCCTTCTTAGCTCTCGCCCCCCCCCTTCT
 GCAGCCTAGGCGGCCCGGTTCTTCTCTTCTCCTCGCGCGCCAGCCGCCTCGGTTCCCG
 GCGACCATGGTGACGATGGAGGAGCTGCGGGAGATGGACTGCAGTGTGCTCAAAAGGCTG
 ATGAACCGGGACGAGAATGGCGGCGCGCGGGCGCAGCGGCAGCCACGGCACCCCTGGGG
 CTGCCGAGCGGGCAAGTGCCTGCTGGACTGCAGACCGTTCTGGCGCACAGCGCG
 GGCTACATCCTAGGTTTCGGTCAACGTGCGCTGTAAACCATCGTTCGGCGCGGGCTAAG
 GGCTCCGTGAGCCTGGAGCAGATCCTGCCCGCCGAGGAGAGGTACGCGCCCGCTTGCGC
 TCCGGCCTCTACTCGCGGTTCATCGTCTACGACGAGCGCAGCCCGCGCGCCGAGAGCCTC
 CGCGAGGACAGCACCGTGTGCTGGTGGTGCAGGCGTGCGCCGCAACGCCGAGCGCACC
 GACATCTGCTGCTCAAAGGCGGCTATGAGAGTTTTCTCCGAGTACCCAGAATTCTGT
 TCTAAAACCAAGGCCCTGGCAGCCATCCCACCCCGGTTCCCCCAGTGCCACAGAGCCC
 TTGGACCTGGGCTGCAGTCTGTGGGACCCACTACACGACCAGGGGGTCTGTGGAG
 ATCCTTCCCTTCTACCTCGGAGTGCCTACCATGCTGCCCGAGAGACATGTGGAC
 GCCTGGGCATCAGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGA
 CACTATCAGTACAAGTGCATCCCAGTGGAGATAACCACAAGGCCGACATCAGCTCCTGG
 TTCATGGAAGCCATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGTGGT
 CACTGCCAGGCGGGCATCTCGCGGTTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAG
 AAACGGGTGAGGCTGGAGGAGGCTTCGAGTTCGTTAAGCAGCGCCGAGCATCATCTCG
 CCCAACTTCAGCTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCC
 TGTGCTGCGGAGGCTGTAGCCCTCGGGACCCCTGCGGGAGCGGGCAAGACCCCGCC
 ACCCCACCTCGCAGTTCGTTCTCAGCTTTCGGTCTCCGTGGGGTGCAGTCCGGCCCC
 AGCAGCCTGCCCTACCTGCACAGCCCATCACCACCTCTCCAGCTGTTAGAGCCGCCCT
 GGGGGCCCGAACCAGAGCTGGCTCCCAGCAAGGGTAGGACGGGCCGATGCGGGCAGA
 AAGTTGGGACTGAGCAGCTGGGAGCAGGCGACCGAGCTCCTTCCCATCATTTCTCCTTG
 GCCAACGACGAGGCCAGCCAGAATGGCAATAAGGACTCCGAATACATAATAAAAGCAAAC
 AGAACACTCCAACCTAGAGCAATAACGGCTGCCGACGAGCCAGGGAAGACCTTGGTTTG
 GTTTATGTGCAGTTTCACTTTCCGATAGAAATTTCTTACCTCATTTTTTTAAGCAGTA
 AGGCTTGAAGTATGAAACCCACAGATCCTAGCAAATGTGCCAACCCAGCTTTACTAAAG
 GGGGAGGAAGGGAGGGCAAGGGATGAGAAGACAAGTTTCCAGAAAGTGCCTGGTTCTGT
 GTACTTGTCCCTTGTGTGCTGCTAGTAAAGGAATTTCAATTTTTAAAAGAAAAA
 AAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001394 unedited
 CGGCAAAAACCTCCGCACGAGGAGGAAGGGGACAGGNGAAGAAGAGGCTCTCCCGCGGG
 AGCCCTTGAGGACCAAGTTTTCGGCCACTTCTGCAGGCGTCCCTTCTTAGCTCTCGCCC
 CCCCTTTCTGACGCTATGCGGCCCGGTTCTTCTTCTTCTCCTCGCGCGCCAGCCGCCT
 CGGTGCCTGGCGACCATGGTGACGATGGATGAGCTGCGGGAGATGGACTGCAGTGTGCTC
 AAAAGGCTGATGAACCGGACGAGAATGGCGGCGCGGGCGGAGCGGCAGCCACGGC
 ACCCTGGGGTGCAGGCGGGCAAGTGCCTGCTGCTGGACTGCAGACCGTTCTGGCG
 CACAGCGCGGGTACATCCTAGGTTTCGGTCAACGTGCGTGTAAACCATCGTGCGGCGG
 CGGGCTAAGGGTCCGTGAGCCTGGAGCAGATCCTGCCCGCCGAGGAGGAGGTACCGCC
 CGTTGCGCTCCGGCCTTACTCGGCGGTTCATCGTCTACGACGAGCGCAGCCCGCGGCC
 GAGAGCCTCCGCGAGGACAGCACCGTGTGCTGGTGGTGAAGCGCTGCGCCGCATGCC
 GAGCGCACCGACATCTGCCTGCTCAAAGCGGGCTATGAGAGGTTTTCTCCGAGTACCCA
 GAATTCTGTGTCTAAACCAAGGCCCTGGCAGCCATCCCACCCNCGGGTCCCCCAGTGC
 CACAGAGCCCTTGGACCTTGGCTGCAGCTCCTGTGGGACCCACTACACGACCAGGGGAG
 GTCCCTGTGGAGAATCCTCCCTTCTTACCTCGGAGTGCCTACCATGCCTGCCGAGA
 GACTGCTGGACCCCTGGGCATACAGCTCTGTGGATGTCTCCTCGCTGCCA

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001394 unedited CGCGGCCCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTCTTTTAAAAATGAAATTC CTTTAACACGACAACGACAACAAGGGACAAGTACACAGAACCAGGCACCTCTGGGAAA CTTGTCTTCTCATCCCTTTGCCCTCCCTTCCTCCCTTTAGTAAAGCTGGTGGGCACA TTTGCTAGGATCTGTGGGTTTCATCACTTCAAGCCTTACTGCTTAAAAAATGAGGTAAG AAATTTCTATCGGAAAAGTGAACTGACACATAAACCAACCAAGGCTTCCCTGGCTGC TGCGGCAGCCGTTATTGCTCTAAGTTGGAGTGTCTGTTTGTCTTTATTATGTATTCGGA GTCCTTATTGCCATTCTGGCTGGCCTCGTCGTTGGCCAAGGAGAAATGATGGGGAAGGAG CTCGGTCGCCTGCTCCCAGCTGCTCAGTCCCACTTTCTGCCCGCATGCGGCCCGTCTA CCCTTGCTGGGAGCCAGCTCTGTTTCTGGGGCCCCAGGGCGGCTCTAACAGCTGGGAGA GGCGGTGATGGGGCTGCGCAGGTAGGGCAGGCTGCTGGGGCCGAGTGCCCGCCACGGA GACCGGATAGCTGAAGACCAACTGCGAGGTGGGGTGGCGGGGCCTGCCCGCTCCCC AGGGTCCCGAGGGGCTAGCAGACCTCGCAGCACAGGACGTGGCCAGCACCTGGGACTCG AACTGCAGCAGTTGCCCGAGAAGCTGAAGTTGGGCGAAATGATGCTGCGGCGCTGTTAAC CAACTCGAAGCCACCTCAACCTACCCGTTTCTCATTATCAGTAGCCAAGCAAATGGGGC CGACGCGATAGCCGGCTGGCATGCACCACCGCCCGGGAGACTTCCGGCACGAGG ACCCTATGGTCCAAGAACAAGAACGAAGNCGGCCTGAGGTATTCTCCCTGGGAGGCTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001394
Insert Size:	1850 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001394.5 , NP_001385.1

RefSeq Size:	2498 bp
RefSeq ORF:	1185 bp
Locus ID:	1846
UniProt ID:	Q13115
Cytogenetics:	8p12
Domains:	DSPc, RHOD, PTPc_motif
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 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, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.