

Product datasheet for **SC125374**

DUSP4 (NM_057158) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP4 (NM_057158) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP4
Synonyms:	HVH2; MKP-2; MKP2; TYP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125374 sequence for NM_057158 edited (data generated by NextGen Sequencing)

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ATGGGAAGAAAAGTTCACTCCAACGGAAGCCAGTTTGTGAACATAGCAGATCGCCAGG
AGGACTGGGAGAGACTGCAAACAGTTCGAGCCCCAGCATGGCGTTAGGTGTCAGCCAG
CTGGCAGGAAGGTCCAGGTGTCTGTGTTTCAGAGTCTCAAGGCGGCTATGAGAGTTTTCC
TCCGAGTACCCAGAATTCTGTTCTAAAACCAAGGCCCTGGCAGCCATCCCACCCCGGTT
CCCCCAGTGCCACAGAGCCCTTGACCTGGGCTGCAGCTCCTGTGGACCCCACTACAC
GACCAGGGGGTCTGTGGAGATCCTTCCCTTCTCTACCTCGGCAGTGCCTACCATGCT
GCCCGGAGAGACATGCTGGACGCCCTGGGCATCACGGCTCTGTTGAATGTCTCCTCGGAC
TGCCCAAACCACTTTGAAGGACACTATCAGTACAAGTGCATCCCAGTGAAGATAACCAC
AAGGCCGACATCAGCTCCTGGTTCATGGAAGCCATAGAGTACATCGATGCCGTGAAGGAC
TGCCGTGGGCGCGTGTGGTGCAGTGCAGGCGGGCATCTCGCGTCCGGCCACCATCTGC
CTGGCCTACCTGATGATGAAGAAACGGGTGAGGCTGGAGGAGGCCTTCGAGTTCGTTAAG
CAGCGCCGAGCATCATCTCGCCAACTTCAGCTTCATGGGGCAGCTGCTGCAGTTCGAG
TCCCAGGTGCTGGCCACGTCCTGTGCTGCGGAGGCTGCTAGCCCCCGGGACCCCTGCGG
GAGCGGGCAAGACCCCGCCACCCCACTCGCAGTTCGTTTCAGCTTCCGGTCTCC
GTGGGCGTGCAGTCCGGCCCCAGCAGCCTGCCCTACCTGCACAGCCCCATACCACCTCT
CCCAGCTGTTAG
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Clone variation with respect to NM_057158.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_057158 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGCCCTTCTAACGAAGAGGAAGCAGCATG GGAAGAAAAGTTCACTCCAACGGAAGCCAGTTTGTGAACATAGCAGATCGCCCAGGAGG ACTGGGAGAGACTGCAAACCAAGTTCGAGCCCCAGCATGGCGTTAGGTGTAGCCAGCTG GCAGGAAGGTCCAGGTGTCTGTGTTTCAGAGTCTCAAGGCGGCTATGAGAGTTTTCTCC GAGTACCCAGAATTCTGTTCTAAAACCAAGGCCCTGGCAGCCATCCCACCCCGGTTCCC CCCAGTGCCACAGAGCCCTTGGACCTGGGCTGCAGCTCCTGTGGGACCCCACTACACGAC CAGGGGGGTCTGTGGAGATCCTTCCCTTCTCTACCTCGGCAGTGCCTACCATGCTGCC CGGAGAGACATGCTGGACGCCCTGGGCATCACGGCTCTGTTGAATGTCTCCTCGGACTGC CCAAACCACTTTGAAGGACACTATCAATACAAGTGCATNCCAGTTGAAAGATAACCACAN GGCCGACTTCAACTCCTGTTTCATTGGANGCAATANAGTACATCAATGCCCTNAAGGACTG GCCTGGCCNCTTCTGGTTCCATTGCCAGCCGGCTATCTCGGGTGGCACCTTCTGCC TGCCCTAACTGGTGATGAAAACCGGTGAGCTTGGAGAAGCCTTCGAGTTGTTAACAAAC CCGAACATTTTTTGGCCAATTTAGTTTGT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_057158 unedited ACTTCAGGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTC AGGAAACAGCTATGACCGCGGCCAATCTAGAGTCGACAAGCTTGATATCGGTACCAGA TCTGAATTCGCCCTTCTGCTCAGTCCCACTTTCTGCCCGCATGCGGCCGCTCTACCCT TGCTGGGAGCCAGCTCTGGTTCTGGGGCCCCAGGGCGGCTAACAGCTGGGAGAGGTG GTGATGGGGCTGTGCAGGTAGGGCAGGCTGCTGGGGCCGAGTGCACGCCACGGAGACC GGAAGCTGAAGACGAAGTGCAGGTGGGGTGGCGGGGTCTTGCCCCGCTCCCGCAGG GGTCCCGAGGGGTAGCAGCCTCCGCAGCACAGGACGTGGCCAGCACCTGGGACTCGAAC TGCAGCAGCTGCCCATGAAGCTGAAGTTGGGCGAGATGATGCTCGCGCGCTGCTTAACG AACTCGAAGGCCNTCCAGCCTCACCGGTTCTTCATCATCAAGTAGGCCAGCANATGG TGGCCCGACGCCAAGATGCCCGCCTGGCAATTGCACAACACGCCCCCACGGAGTTCTT CACGGCATTACAGTACTCTATGCTTCCATGAACCAGAAGTATGTCGGCCTTGGGTTATC TCCCTGAAAGCCATTGTGCCGTAGTGCCTCAAAGGGTTGGGCATCCGAGGAAGTAAACA AACCGTGAGCCAAGGCTC
Restriction Sites:	Please inquire
ACCN:	NM_057158
Insert Size:	1000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_057158.2</u> , <u>NP_476499.1</u>

RefSeq Size:	3404 bp
RefSeq ORF:	912 bp
Locus ID:	1846
UniProt ID:	Q13115
Cytogenetics:	8p12
Protein Families:	Phosphatase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region, compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1.</p> <p>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.</p>