

Product datasheet for **SC303480**

DUSP8 (NM_004420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP8 (NM_004420) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP8
Synonyms:	C11orf81; HB5; HVH-5; HVH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC303480 representing NM_004420.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCTGGGGACCGCTCCCGAGGAAGGTGATGGATGCCAAGAAGCTGGCCAGCCTGCTGCGGGGCGGG
CCTGGGGGCGCTGGTCATCGACAGCCGCTCCTTCGTGGAGTACAACAGCTGGCATGTGCTCAGCTCC
GTCAACATCTGCTGCTCCAAGCTGGTGAAGCGGCGGCTGCAGCAGGGCAAGGTGACCATTGCGGAGCTC
ATCCAGCCGCTGCACGAGCCAGGTGGAGGCTACGGAGCCACAGGACGTGGTGGTCTATGACCAGAGC
ACGCGGGACGCCAGCGTCTGGCCGACAGAGCTTCTCTCCATCCTGCTGAGCAAGCTGGACGGCTGC
TTCGACAGCGTGGCCATCCTCACTGGGGCTTCGCCACCTTCTCCTCTGCTTCCCCGGCCTCTGCGAG
GGCAAGCCTGCTGCCCTGCTACCATGAGCCTCTCCAGCCCTGCCTGCCTGTGCCAGCGTGGGCTG
ACCCGCATCCTGCCTCACCTCTACCTGGGCTCGCAGAAGGACGTCCTAAACAAGGATCTGATGACGAA
AATGGAATAAGCTACGTCTCAACGCCAGCAACTCTGCCCAAGCCTGACTTCATCTGCGAGAGCCGC
TTCATGCGGGTCCCATCAACGACAACCTACTGTGAAAACTGCTGCCCTGGCTGGACAAGTCCATCGAG
TTCATCGATAAAGCCAAGCTCTCCAGCTGCCAAGTCATCGTCCACTGTCTGGCTGGCATCTCCCGCTCT
GCCACCATCGCCATCGCCTACATCATGAAGACCATGGGCATGTCTCCGACGACGCTACAGTTCTGTG
AAGGACAGGCGCCCGTCCATCTCGCCAACTTCAACTTCTGGGCCAGCTGCTGGAGTACGAGCGCAGC
CTGAAGCTGCTGGCCGCCCTGCAGGGCGACCCGGGACCCCTCAGGGACGCCGGAGCCTCCGCCAGT
CCTGCCGCCGGGGCCCGCTGCCACGGCTGCCACCACTACCTCAGAGAGCGCTGCCACAGGGAATGCG
GCTGCCAGGGAGGGCGGCTGAGCGCGGGCGGGAGCCCCCGCGCCCCACGCCCCGGCGACCCAGC
GCACTGCAGCAGGGCCTGCGCGGCTGCACCTCTCCTCGGACCGCTGCAGGACACTAACCGCTCAAG
CGCTCCTTCTCCTGGACATCAAGTCTGCCTACGCCCTAGCAGGCGGCCGACGCCCCGGGGCCCCC
GACCCCGGCGAGGCCCCGAAGCTCTGAAGCTGGACAGCCGTCGGGGCGCGCTGGGCTGTCTCTCG
CCCAGCCCGGACAGCCCGACGCGCGCTGAGGCGCGCCACGCCCCCGCGGGCCCCGGCCCCC
GCCGGCTCCCCCGCGCTCCCCCGCGCACAGCCTCGGCCTGAATTGCGGATGCGGCCCGGACACT
CCGCGGCACGGCCTCTCGGCCCTGTGGCGCCCGGGCTGCCCGGCCCTGGCCAGCCGGCGGCCCGGG
GCCTGGGACCGCCGCTCGACTCCCGAGGACGCCGTCGCCGACGGGCCCTGGTCTTACGCCCCGAG
GGCGCACAGGGGCGGGCGGGTGTGTTTGGCCCTTCGGCCGGGCGGGCGCCCCGGGACAGGCGGC
GGCAGCGACCTGCGGCGGCGGGAGGCGAGGCTGAGCCCCGGGACGCGCGGACCGGCTGGCCCGAG
GAGCCGCCCCCGAGACGAGTCAAGCGCCGAGCTGCCAGATGGAGTTCGAGGAGGGCATGGTGGAG
GGGCGCGCGCGCGGAGGAGCTGGCCGCCCTGGGCAAGCAGGCGAGCTTCTCGGCGAGCTGGAGGTC
ATCGAGGTGTCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_004420
Insert Size: 1878 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](#)

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: [NM_004420.2](#)

RefSeq Size: 4491 bp

RefSeq ORF: 1878 bp

Locus ID: 1850

UniProt ID: [Q13202](#)

Cytogenetics: 11p15.5

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

MW: 65.8 kDa

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 inactivates SAPK/JNK and p38, is expressed predominantly in the adult brain, heart, and skeletal muscle, is localized in the cytoplasm, and is induced by nerve growth factor and insulin. An intronless pseudogene for DUSP8 is present on chromosome 10q11.2. [provided by RefSeq, Jul 2008]