

Product datasheet for **SC111766**

DUSP10 (NM_007207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP10 (NM_007207) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP10
Synonyms:	MKP-5; MKP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111766 sequence for NM_007207 edited (data generated by NextGen Sequencing)

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ATGCCTCCGTCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCCGTCCGACCT
CAGGATCTCAACCTTTGTTTAGACTCTAGTTACCTTGGCTCTGCCAACCCAGGCAGTAAC
AGCCACCCTCCTGTCATCGCCACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGTAT
ATGCCCTCATCCAGCGGCTCTGCCCGCTCGTGAATTGTGGATGCAGCAGTGCCAGCTGC
TGCACTGTGGCAACCTACGACAAGGACAATCAGGCCAAACCCAAGCCATTGCCGCTGGC
ACCACCACCACTGCCATCGGAACCTCTACCACCTGCCCTGCTAACCCAGATGGTCAACAAT
AATGAGAATACAGGCTCTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTGAGGGACC
CCCAAGCAGCTAGCCAGCATAAAATAATCTACCCCAATGACTTGGCAAAGAAGATGACC
AAATGCAGCAAGAGTCACCTGCCGAGTCAGGGCCCTGTCATCATTGACTGCAGGCCCTTC
ATGGAGTACAACAAGAGTCACATCCAAGGAGCTGTCCACATTAAGTGTGCCGATAAGATC
AGCCGGCGGAGACTGCAGCAGGGCAAGTCACTGTCTAGACTTGATTTCTGTAGGGAA
GGCAAGGACTCTTTCAAGAGGATCTTTTCAAAGAAATTATAGTTTATGATGAGAATACC
AATGAACCAAGCCGAGTGATGCCCTCCCAGCCACTTACATAGTCTCGAGTCCCTGAAG
AGAGAAGGCAAAGAACCTCTGGTGTGAAAGGTGGACTTAGTAGTTTTAAGCAGAACCAT
GAAAACCTCTGTGACAACCTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGCGGCGCA
TCCGCGGCTCGAGCTTGCTACCTCAGCCCATCCCCACCACCCTGACATCGAGAACGCT
GAGCTCACCCCATCTTGCCCTTCTGTTCCTTGGCAATGAGCAGGATGCTCAGGACCTG
GACACCATGCAGCGGCTGAACATCGGCTACGTCATCAACGTCACCACTCATTTCCCTC
TACCACTATGAGAAAGGCTGTTCAACTACAAGCGGCTGCCAGCCACTGACAGCAACAAG
CAGAACCTGCGGCAGTACTTTGAAGAGGCTTTTGAGTTCATTGAGGAAGCTCACCAGTGT
GGGAAGGGGCTTCTCATCCACTGCCAGGCTGGGTGTCCCGCTCCGCCACCATCGTATC
GCTTACTTGTGATGAAGCACACTCGGATGACCATGACTGATGCTTATAAATTTGTCAAAGGC
AAACGACCAATTATCTCCCAAACCTTAACTTCAATGGGGCAGTTGCTAGAGTTCGAGGAA
GACCTAAACAACGGTGTGACACCGAGAATCCTTACACCAAAGCTGATGGGCGTGGAGACG
GTTGTGTGA
    
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Clone variation with respect to NM_007207.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_007207 unedited
GTTAGATTTTATACACTATTAGGCGGCCGCGATTGCGCGAGGACAATGAACCGATGATGG
GGGCTGAATGTGCGAGTCCATAGCTGAAGAGGAGCGCCAGATGGTGGAGGAATACACTTA
TTTATGAAACTGTCTTGAGTTCTTCTTGAATTGCCAGTTTTCAGCCTCCTCATGCCTCCG
TCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCCGTCCGACCTCAGGATCTC
AACCTTTGTTTAGACTCTAGTTACCTTGGCTCTGCCAACCCAGGCAGTAACAGCCACCCT
CCTGTCAATCGCCACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGTATATGCCCTCA
TCCAGCGGCTCTGCCCGCTCGTGAATTGTGGATGCAGCAGTGCCAGCTGCTGCACTGTG
GCAACCTACGACAAGGACAATCAGGCCAAACCCAAGCCATTGCCGCTGGCACCACCACC
ACTGCCATCGGAACCTCTACCACCTGCCCTGCTAACCCAGATGGTCAACAATAATGAGAAT
ACAGGCTCTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTGAGGACCCCAAGCAG
CTAGCCAGCATAAAATAATCTACCCCAATGACTTGGCAAAGAAGATGACCAATGCAGC
AAGAGTCACTGCCGAGTCANGGCCCTGTCATCATTGACTGCAGGCCCTTATGGAGTAC
AACAAAGAGTCACATCCAAGGAGCTGTCCACATTAAGTGTGCCGNATAGATCAGCCGGCGG
AGACTGCAGCAGGGCAAGATCACTGTCTAGACTTGATTTCTGTAGGGAAAGGCAGGAC
TCTTTCAAGAGATCTTTTCAAAGAAATTATAGTTATGATGAGATACCCATGACCAAGCCG
ATGATGCCCTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007207 unedited TCTATGGACCGCGGCCGCATTTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGGCAAAA ATTTTTAAATAAATTTTTTTTTTCTTACATTCTGATATACATATGTAACAAGGTTTATGGC ACTGTAACCAGAAATCAAATCAGAAAAAAGGAAAAAGGTGGGAAGGAAAGTA TTTGATATATTGTTGAATTCCTTCTATCTCCAAGCTGGCAAATTTGCACTATTTGTCTA TCATTGAGCTGCCAGCTAACTTGTGGCACACTTAAACATCATATTATTGCACAAGA AGCCAGTGAAGGCATATAATGGTCAGTTCCTCACTATTTCAAAAAAATCTCTAAACCC AGAGAAGGAAAAAATCCAGAGCATGAAACACACAAAATCAAAGGTATCCT TTTTCTCCTTAAAGAATGCCTGAAGGATTCTTAAACCACTTAAGCTGCCCTGATCTTCTC TTTGCACCACTGAGCACAACAGGGCTTGGTTGGTTGGGTTTTTGTCTGTGTGGACA GCCCAGGTTGATCCAGGCCTTGGAGATTCAATGTCTTTTCTATTTACTTTTGGTTCTTT TTAATTGGTTTAAAGTGTGTAGTATCTTCGGTCTATGAACCTGCACAGACTATTTAGTCA TAAACTCTACAAATAGCTTAAAAGGAAAAGGGGAGAAACAAGTTGTATTATTTTTAT TGTTGGCTTAAAAATTACTTCTTAACTCCTAATTTGNCAGTTTNGTGGGAAGTGAA TCTCAATGGCATAAAAGCTATAGTCTTCTACTTGTAAANNATNAAGTGTTAAANNC AGTTTGTTCATTTCACTTACTCCACCTCANNAAGAAAGAAAAACCCGA ACCTCCTCCTCCTCATGCCTCTAATGGAGAGCAGCATCTTTTCATTNCAGACATTG TNACACAACGTNNTCACGCCATAGCTTTGTTGAAGGATT
Restriction Sites:	NotI-NotI
ACCN:	NM_007207
Insert Size:	2750 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:	NM_007207.3 , NP_009138.1
RefSeq Size:	2619 bp
RefSeq ORF:	1449 bp
Locus ID:	11221
UniProt ID:	Q9Y6W6
Cytogenetics:	1q41
Domains:	DSPc, RHOD

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Gene Summary: Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAP kinase superfamily, which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAP kinases, different tissue distribution and subcellular localization, and different modes of expression induction by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
Transcript Variant: This variant (1) represents the longest transcript and encodes the functional protein.