

Product datasheet for **SC321781**

DUSP6 (NM_001946) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP6 (NM_001946) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP6
Synonyms:	HH19; MKP3; PYST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001946.2
GCCTCGCGCAGGGGTGTGCGAGGCTGAGTCCAAGAGATAGCAAATCGAGTCTTAAATAA
TCCGGGGAGAAAGACGCCCGGTAGATTTGAGGTGCAGCCTTGGAGGGAGGGATTAGAAG
CCGCTAGACTTTTTTCTCCCTCTCAGTAGCACGGAGTCCGAATTAATTGGATTTTCAT
TCACTGGGGAGGAACAAAACTATCTGGGCAGCTTATTGAGAGAGATTCATTGACACTA
AGAGCCAGCGGCTGCAGCTGGGTGCAGAGAGAACCTCCGGCTTTACTTCTGTCTCGTCTG
CCCCAACCGCTAGCCTCGGCTTGGTAAGGCGAGGCGGAATTAACCCCGCTCCGAGAGC
GGCAGCTTCGCGCGGGTGCCTCGGCCTATGCCTGCCCGAGGGGCGTCTGGTAGGCAC
CCCCCCTCTCCCGCAGCTCGACCCCATGATAGATACGCTCAGACCCGTGCCCTTCGCG
TCGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAAC
GAGCGGCTGTGCTGATGGACTGCCGGCCGAGGAGCTATACGAGTCGTCGCACATCGAG
TCGGCCATCAACGTGGCCATCCCGGCATCATGCTGCGGCGCCTGCAGAAGGGTAACCTG
CCGGTGCAGCGCTTTCACGCGCGGAGGACCCGGGACCGCTTACCCGGCGTGTGGC
ACCGACACAGTGGTGTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACGGGCGGC
GAGTCGGTGTCTGGGCTGTCTCAAGAAGCTCAAGGACGAGGGTGCCTGGGCGTCTAC
CTGGAAGGTGGTTCAGTAAAGTCCAAGCCGAGTCTCCCTGCATTGCGAGACCAATCTA
GACGGCTCGTGTAGCAGCAGCTCGCCGCGTGGCAGTGTGGGGCTCGGGGCTCGCGG
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GAGTTTAAATACAAGCAAATCCCATCTCGGATCACTGGAGCCAAAACCTGTCCAGTTT
TTCCCTGAGGCCATTTTTCATAGATGAAGCCGGGGCAAGAAGTGTGGTGTCTTGGTA
CATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCTTATGCAGAAG
CTCAATCTGTCGATGAACGATGCCTATGACATTGTCAAAAATGAAAAATCCAACATATCC
CCTAACTTCAACTTATGGGTGAGTGTGGACTTCGAGAGGACGCTGGGACTCAGCAGC
CCATGTGACAACAGGGTCCAGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAAT
GTATACCAGTGGACTCTCTGCAATCTACGTGAAAGACCCACACCCCTCCTTGTGGAA
TGTGTCTGGCCCTCAGCAGTTTCTTGGCAGCATCAGCTGGGCTGCTTTTGTGTG
TGGCCCCAGGTGTCAAAATGACACCAGCTGTCTGTACTAGACAAGTTACCAAGTGGGA
ATTGGTTAATACTAACAGAGAGATTTGCTCCATTTCTTTGGAATAACAGGACATGCTGT
ATAGATACAGGCAGTAGTGTGCTGTACCCATGTGTACAGCCTACCCATGCAGGGACT
GGGATTCGAGGACTTCCAGGCGCATAGGGTAGAACCAAATGATAGGGTAGGAGCATGTGT
TCTTTAGGGCCTTGAAGGCTGTTTCTTTTGCATCTGGAAGTACTATATAATTGTCTT
CAATGAAGACTAATTCATTTTGCATATAGAGGAGCCAAAGAGAGATTTAGCTCTGTAT
TTGTGGTATCAGTTTGGAAAAAAAATCTGATACTCCATTTGATTATTGTAATATTTGA
TCTTGAATCACTTGACAGTGTGTTGTTGAATTGTGTTGTTTTTCTTTGATGGGCTTA
AAAGAAATATCCAAAGGGAGAAAGAGCAGTATGCCACTTCTTAAACAGAACAAAAACA
AAAAAGAAAATGTGCTTTTTCTAATCCAAAGGTATATTTGCAGCATGCTTGACTTTA
CCAATTCTGATGACATTTTACGGACACTATTATCACTAAGACCTTGTATGGCGAAGTC
TTTAGTCTTTTTCATGTATTTTCTCATGATTTTTTCTTTTATGTAGTTTACTATGCC
TTACCTTTGTAATATTTTGTGTGTGTCGCAAAAGGGATAATCTGGGAAAGACACC
AAATCATGGGCTCACTTTAAAAAAGAAAGAATAAAAAACCTTCCAGCTGTGCTAAACAG
TATATTACCTCTGTATAAAATCTTCCAGGGAGTGTACCTCAAATGCAATACTTTGGGTT
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ACCCATTTGATAAGAGAAATGCATTTGATTGTGAAGAAGGGAGAGTTAAATCTCCATTA
TGTTTCGTGGTGTAAAGTTTAGAGCTGGAATTTATTATAAGAATGTAACCTTAAATTA
TAATAAATAACTATTTTGGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Please inquire

ACCN:	NM_001946
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>
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:	<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_001946.2 , NP_001937.2
RefSeq Size:	2842 bp
RefSeq ORF:	1146 bp
Locus ID:	1848
UniProt ID:	Q16828
Cytogenetics:	12q21.33
Domains:	DSPc, RHOD
Protein Families:	Druggable Genome, 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 ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).