

Product datasheet for SC104259

DUSP7 (NM_001947) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP7 (NM_001947) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP7
Synonyms:	MKPX; PYST2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104259 sequence for NM_001947 edited (data generated by NextGen Sequencing)

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ATGAAAAACCAGCTCCGCGGCCCCAGCGCGGGCGCACATGTCGACTTCGGGGGCGGCG
GCGGCTGGGGGCACCCGGGCGGGTCCGAGCCCGGTGCGGGTTCGGGGTCCGCGCAGGC
ACCGGGGCGGGCGCGGACGGGGCAGGGCCATGCCCTGCAAGAGCGCCGAGTGGCTG
CAGGAGGAGCTGGAGGCGCGGCGGCGTCTTGTGCTGCTCGACTGCCGGCCGAC
GAGCTCTCGAGTCGTCGACATCGAGACGGCCATCAACCTGGCCATCCCGGGCTCATG
TTGCGCCGCTGCGCAAGGGCAACCTGCCATCCGCTCCATCATCCCAACCACGCCGAC
AAGGAGCGCTTCGCCACGCGTGAAGGCGGCCACCGTGTGCTCTACGACGAGGCCACG
GCCGAGTGGCAGCCGAGCCGGCGCTCCCGCTCCGTGCTCGGCTGCTCCTACAGAAG
CTGCGCGACGACGGCTGCCAGGCTACTACCTCCAAGGTGGTTTCAACAAGTTTCAAACA
GAGTACTCTGAGCACTGCGAGACCAACGTGGACAGCTTCTCCTCGCCGAGCAGCTCGCCA
CCCACCTCAGTGTGGGCTGGGGGCTGCGCATCAGCTCTGACTGCTCCGACGGCGAG
TCGGACCGAGAGCTGCCAGCAGTGCCACCGAGTCAGACGGCAGCCCTGTGCCATCCAGC
CAACCAGCCTTCCCTGTCCAGATCCTGCCCTACCTCTACCTCGGCTGCGCCAAGGACTCC
ACCAACCTGGACGTGCTCGGCAAGTATGGCATCAAGTATATCCTCAATGTACACCCAAC
CTACCCAACGCCCTTCGAGCACGGCGGCGAGTTCACCTACAAGCAGATCCCATCTCTGAC
CGTCCAAGAAGTGTGGTGCCTGGTGCAGTGCCTGGCAGGCATCAGCCGCTCAGTGACG
GTCACTGTGGCCTATCTGATGCAGAAGATGAACCTGTCACTCAACGACGCCTACGACTTT
GTCAAGAGGAAAAAGTCCAACATCTCGCCAACTTCAACTTCATGGGGCAGCTGTGGAC
TTTGAGCGGACGCTGGGGCTAAGCAGCCGTGCGACAACCACGCGTCGAGTGAGCAGCTC
TACTTTCCACGCCACCAACCACAACCTGTTCCCACTCAATACGCTGGAGTCCACGTGA

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Clone variation with respect to NM_001947.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001947 unedited
 CCGCCCCGTTGCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCT
 CATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAATTTCG
 GCACGAGGGCGGCTGGGGCCCGCGCGGGCGGGCGCCGTCCCAGGGCAGGGCTGCCCGGC
 CCCGGCCCCGGGCGCCCGCGCTCCCCATGAAAAACCAGCTCCGCGGCCCCAGCGCGG
 GCGCACATGTCGACTTCGGGGCGGGCGGCTGGGGCACCCGGGCGGGTCCGAGCCC
 GGTGCGGGTCCGGGTCGGCGCAGGCACCGGGCGGGCGGGGACGGGGCAGGGGCC
 ATGCCCTGCAAGAGCGCCGAGTGGCTGCAGGAGGAGCTGGAGGCGCGGGCGCGCTCC
 TTGCTGCTGCTCGACTGCCGGCCGACGAGCTTTCGAGTCGTCGACATCGAGACGGCC
 ATCAACCTGGCCATCCCGGGCTCATGTTGCGCCGCTGCGCAAGGGCAACCTGCCCATC
 CGCTCCATCATCCCCAACCGCCGACAAGGAGCGCTTCGCCACGCGCTGCAAGGCGGCC
 ACCGTGCTGCTACGACGAGGCCACGGCCGAGTGGCAGCCCAGCCGGCGCTCCCGCC
 TCCGTGCTCGGCCTGCTCTACAGAAGCTGCGGACGACGGCTGCCAGGCCTACTACCTN
 CAAGGTGGNTTCAACAAGTTTCAAACAGAGTACTCTGAGCACTGCGAGACCAACGTGGAC
 AGCTCTTCTCGCCGAGCAGCTGCCACCCACCTCAGTGTGGGCTGGNGGGCTGCGC
 ATCAGCTCTGACTGCTCCGACGGCGAGTCGGACCGAGAGCTGNCCAGCAGTGCCACCGAG
 TCAGACGGNAGNCTGTGCCATNCAGNACCAGNCTTTCTGTNNCAGANNCTGCCTACTC
 NNTACTCGNTGNGCCAGGACTACAACCCTGGACTGCTCGGNNAGT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_001947 unedited
 NCTANGATCGATTTTTTTTTTTTTTTTTTAAAGAAAAAATATTTATTTGCAATATAAA
 CAAAGTCCCGTTGTTGGTTCGGGATATATATATATATGTATGTGTGTATATATACG
 TAGGGTCACAAATCTTCTTCATAAGATCATAAAGCAAACTGGCCACCTTCTGGCATAAC
 CCTCATTTACACAAATCTGGTACATCTTCTGGGTTTTCTTTTTAAAAATAAAAGAGAGA
 AAAAGAGAACCATGTACAGCATGGAAGCTTGTGTCAATTTCTCGACTGTGGCAAGATTT
 TAATCTGCTGCGCTAAAGAATCCCTGAAAGCCACCCCGTGAGGTAAGAAGCAGTGGGGC
 AGAGTTTTTCTGTGGCCTCACTCACATGCTGAGTGTGCTCCGTGAGGGACCCCTGGCCTG
 ACTCCTGCTGCCAGGCCCCCATGCAGTCTGACACCTGGTGGAACTGAGGCTGGA
 GAAGGAACAAAAGTGGAGGAAGATAACGGAATCCGTGGCTTCGTTCTGTGGAGGCAGGGG
 GAAGTGAACAGAGCCTTACCCCTTCTGCTGGTCCATCCTTCCCCACTTGCCCCCGCC
 CTAAGGTTGAAATGGGTGCAAGTCTCCTGGCATTAAAAAGCATGGGCAAAATGAAGGCAG
 GGCAAGCTTCCAAGGGGACAGGGGCTGGGAGGGCCCCACCAAAACACCGCCTGGGGAAA
 AGAAGAACCTGGAGGTCCGGCTGGGGCCCCACCCCTAATGTCTCCCCAGCCCTGGGGCC
 TCCTCCCGTTTCCACCNNNAAAGAGGAAGGGAAAAAAGGGCGGGGGGAAAAAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_001947

Insert Size:

3500 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_001947.1 , NP_001938.1
RefSeq Size:	1107 bp
RefSeq ORF:	1107 bp
Locus ID:	1849
UniProt ID:	Q16829
Cytogenetics:	3p21.2
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. DUSP7 belongs to a class of DUSPs, designated MKPs, that dephosphorylate MAPK (mitogen-activated protein kinase) proteins ERK (see MIM 601795), JNK (see MIM 601158), and p38 (see MIM 600289) with specificity distinct from that of individual MKP proteins. MKPs contain a highly conserved C-terminal catalytic domain and an N-terminal Cdc25 (see MIM 116947)-like (CH2) domain. MAPK activation cascades mediate various physiologic processes, including cellular proliferation, apoptosis, differentiation, and stress responses (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]