

Product datasheet for **SC310672**

DUSP10 (NM_144729) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP10 (NM_144729) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP10
Synonyms:	MKP-5; MKP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310672 representing NM_144729. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGCAGCGGCTGAACATCGGCTACGTCATCAACGTCACCACTCATCTTCCCCTCTACCACTATGAGAAA
GGCCTGTTCAACTACAAGCGGCTGCCAGCCACTGACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAA
GAGGCTTTTGAGTTCATTGAGGAAGCTCACCAGTGTGGGAAGGGGCTTCTCATCCACTGCCAGGCTGGG
GTGTCCCCTCCGCCACCATCGTCATCGCTTACTTGATGAAGCACACTCGGATGACCATGACTGATGCT
TATAAATTTGCAAAGGCAAACGACCAATTATCTCCCAAACCTTAACTCATGGGCAGTTGCTAGAG
TTCGAGGAAGACCTAAACAACGGTGTGACACCGAGAATCCTTACACCAAAGCTGATGGGCGTGGAGACG
GTTGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_144729
Insert Size:	423 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_144729.1.



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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_144729.2</u>
RefSeq Size:	1824 bp
RefSeq ORF:	423 bp
Locus ID:	11221
Cytogenetics:	1q41
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	MAPK signaling pathway
MW:	16.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding region compared to variant 1, resulting in an isoform (b) that is shorter at the N-terminus compared to isoform a. Both variants 2 and 3 encode isoform b.</p>