

Product datasheet for **SC101321**

DUSP18 (NM_152511) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP18 (NM_152511) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP18
Synonyms:	DSP18; DUSP20; LMWDSP20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101321 sequence for NM_152511 edited (data generated by NextGen Sequencing)

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ATGACAGCACCCCTCGTGTGCCTTCCAGTTCAGTCCGGCAGCCCTCAGTCAGCGGCCTC
TCGCAGATAACCAAAAGCCTGTATATCAGCAATGGTGTGGCCGCAACAACAAGCTCATG
CTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTG
TATGAGGATATCCAGTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGT
GACTTCTTTGACCCTATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGCTACT
TTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATG
AAGTACCACGCCATGTCCCTGCTGGACGCCACACGTGGACCAAGTCATGCCGGCCCATC
ATCCGACCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTGGC
AAGAACACTGTGCACATGGTCAGTTCGCCAGTGGGAATGATCCCTGACATCTATGAGAAG
GAAGTCCGTTTGATGATTCCACTGTGA
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Clone variation with respect to NM_152511.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152511 unedited
 GGATTTTGTAAATACGACTCACTATAGGGCGGCNCGGAATCGGCACGAGGGTGCGACCCG
 GCCCGTTGCCGTAGAGATGGGCAGGGCTGGATGGAGTGGGGTGCGGTGAGCTGAGCTGAC
 CCTGCTTGCCACGGGGACTGCAGTGACCCCGCTTGCCGGCAGGGCGGGTAACAGGTTG
 AGCCAGGTGGGGCTGCTCAGGGCGTGGAGCCGAGGCCAGGATTCTCTGAAGACCCGG
 CACAGGCTATTCCTTTCTGCGACGAGCCCATTGCTATGAAAACCAAAGCGTTAGGCCAGC
 GGGGATTGAGGCTGCGGGATCATGACGGGTCTCTCTCCCGAAGAACCTTGCCCTAAGGCTT
 CCCAAGCGGCTACTTCTGAGCGAACCCGCCACCCGCCTGAAGGAGAGAGTTTTCCAT
 GGACACAGCCTAGCAGAAAGACGAGCCTTCGTGCTTCGTGACTGCTGACCACTGACCC
 ACCGCCTTGATGACAGCACCCCTCGTGTGCCTTCCCAGTTCAGTTCGGCAGCCCTCAGTC
 AGCGGCCTCTCGCAGATAACCAAAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAC
 AAGCTCATGCTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGT
 AACACCTGTATGAGGATATCCAGTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCA
 CGTCTCTGTGACTTCTTTGACCCTATTGCTGACCATATCCACAGCGTGGAGATGAAGCAN
 GGCCGTACTTTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTGCC
 TACCTCATGAAGTACACGCCATGTCCTGCTGGANCCNCACGTGGACAAGTATGCCNG
 NCCATCATNCGACCCACANNNTTTTGGNAGCACTCATCCCTATGAGTCCATGNTGGCAG
 AACTGTGCCATGTCAGTCCCAGGGGGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152511 unedited
 GAACTCTGTACCGCGCCGCAATTTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTACACAC
 AGGGTAACTTTTTGGAAGAGTACTTTGTAACAATAAAGTGTGTGCACAGAAAGGAGAAA
 TGCCATTATGAGGATGTGTGTGCCGACCTGGGACCAGCAGGGTAAAGAGTCTATCATT
 ATGATGAGAGCTGCCATTTGCGCTAAGCACACACCATGTGCCAGGCACTATGCCAAGAAA
 TTGTTGAATCTTCAACAATAACTCTGTGAGAAAAGGGCTGTCATTGGACAGATGAGGACAC
 TGATGCTCCCAGGGGTCCACATCACATGAAGAGGAGGTGACAGGGCTGGGCCCTGGTCCG
 AAGCTCCAGCCTTCCAAGCCAAGGCCTGTGAGAGGAACCGCTGAAACCTGATGTTAGGCC
 TGTTTTTCTCATGTGCCCTGGAGAAAAGGACTAACACCATCTTTTGCCCAAGTTTGGTGA
 GGGATGGCCAAGAGCTCTTTGAACTTTGCCATGTACAATAGCACTCACAAATTTTTTTTT
 AATTTTTTATACAGTGGTATCGGGTACAGTGGCTCATCAACACTTTGGGAGGGCTGAG
 CCTGAAGATTTGCTTGAGCCCAGAGTTTGAGACCAGTCTGGGCGACATAGTTAAATCTCA
 TCTCTTTTAAAAAAGGAAAAAATGAGGCGGCCATGGGTGGAACATCTGTAGTCCAGC
 CCCCCAGGAGCTTAGGAAGAAGTCACTTGAGCCTGAAAGGTTGTGGCTACCTGAGGCAT
 GATCACACTACTGCACCTCCAGATGGGTGAAGAACCAAGGAATTTTCAAAAAAGACAAAA
 AAAAAATCCAGGGGAATGCCTTCTTAAAAACATCTTATGCCTAAGTAAATCTAGAAAAACG
 GAC

Restriction Sites:

NotI-NotI

ACCN:

NM_152511

Insert Size:

2500 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_152511.3 , NP_689724.3
RefSeq Size:	2453 bp
RefSeq ORF:	567 bp
Locus ID:	150290
UniProt ID:	Q8NEJ0
Cytogenetics:	22q12.2
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>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. They have been implicated as major modulators of critical signaling pathways. DUSP18 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>