OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117410

DUSP1 (NM_004417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP1 (NM_004417) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP1
Synonyms:	CL100; HVH1; MKP-1; MKP1; PTPN10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_004417 edited
GAATTCGGCACGGGCGCAGAGAGACCCGGGGGTCTAGCTTTTCCTCGAAAAGCGCCGCCC
TGCCCTTGGCCCCGAGAACAGACAAAGAGCACCGCAGGGCCGATCACGCTGGGGGCGCTG
AGGCCGGCCATGGTCATGGAAGTGGGCACCCTGGACGCTGGAGGCCTGCGGGCGCTGCTG
GGGGAGCGAGCGGCGCAATGCCTGCTGCTGGACTGCCGCTCCTTCTTCGCTTTCAACGCC
GGCCACATCGCCGGCTCTGTCAACGTGCGCTTCAGCACCATCGTGTGGCGCCGGGCCAAG
GGCGCCATGGGCCTGGAGCACATCGTGCCCAACGCCGAGCTCCGCGGCCGCCTGCTGGCC
GGCGCCTACCACGCCGTGGTGTTGCTGGACGAGCGCAGCGCCGCCCTGGACGGCGCCAAG
CGCGACGGCACCCTGGCCCTGGCGGCCGGCGCGCTCTGCCGCGAGGCGCGCGCCGCGCAA
GTCTTCTTCCTCAAAGGAGGATACGAAGCGTTTTCGGCTTCCTGCCCGGAGCTGTGCAGC
AAACAGTCGACCCCCATGGGGCTCAGCCTTCCCCTGAGTACTAGCGTCCCTGACAGCGCG
GAATCTGGGTGCAGTTCCTGCAGTACCCCACTCTACGATCAGGGTGGCCCGGTGGAAATC
CTGCCCTTTCTGTACCTGGGCAGTGCGTATCACGCTTCCCGCAAGGACATGCTGGATGCC
TTGGGCATAACTGCCTTGATCAACGTCTCAGCCAATTGTCCCAACCATTTTGAGGGTCAC
TACCAGTACAAGAGCATCCCTGTGGAGGACAACCACAAGGCAGACATCAGCTCCTGGTTC
AACGAGGCCATTGACTTCATAGACTCCATCAAGAATGCTGGAGGAAGGGTGTTTGTCCAC
TGCCAGGCAGGCATTTCCCGGTCAGCCACCATCTGCCTTGCTTACCTTATGAGGACTAAT
CGAGTCAAGCTGGACGAGGCCTTTGAGTTTGTGAAGCAGAGGCGAAGCATCATCTCTCCC
AACTTCAGCTTCATGGGCCAGCTGCTGCAGTTTGAGTCCCAGGTGCTGGCTCCGCACTGT
TCGGCAGAGGCTGGGAGCCCCGCCATGGCTGTGCTCGACCGAGGCACCTCCACCACCACC
GTGTTCAACTTCCCCGTCTCCATCCCTGTCCACTCCACGAACAGTGCGCTGAGCTACCTT
CAGAGCCCCATTACGACCTCTCCCAGCTGCTGAAAGGCCACGGGAGGTGAGGCTCTTCAC
ATCCCATTGGGACTCCATGCTCCTTGAGAGGAGAAATGCAATAACTCTGGGAGGGGCTCG
AGAGGGCTGGTCCTTATTTATTTAACTTCACCCGAGTTCCTCTGGGTTTCTAAGCAGTTA
TGGTGATGACTTAGCGTCAAGACATTTGCTGAACTCAGCACATTCGGGACCAATATATAG
TGGGTACATCAAGTCCATCTGACAAAATGGGGCAGAAGAGAAAGGACTCAGTGTGTGATC
CGGTTTCTTTTTGCTCGCCCCTGTTTTTTGTAGAATCTCTTCATGCTTGACATACCTACC
AGTATTATTCCCGACGACACATATACATATGAGAATATACCTTATTTATTTTTGTGTAGG
TGTCTGCCTTCACAAATGTCATTGTCTACTCCTAGAAGAACCAAATACCTCAATTTTTGT
TTTTGAGTACTGTACTATCCTGTAAATATATCTTAAGCAGGTTTGTTTTCAGCACTGATG
GAAAATACCAGTGTTGGGTTTTTTTTTAGTTGCCAACAGTTGTATGTTTGCTGATTATTT
ATGACCTGAAATAATATATTTCTTCTTCTAAGAAGACATTTTGTTACATAAGGATGACTT
TTTTATACAATGGAATAAATTATGGCATTTCTATTGAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004417 unedited
CAAAATTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGGGCGCAGAGAGACCC
GGGGGTCTAGCTTTTCCTCGAAAGCGCCGCCCTGCCCTTGGCCCCGAGAACAGACAAAGA
GCACCGCAGGGCCGATCACGCTGGGGGCGCTGAGGCCGGCCATGGTCATGGAAGTGGGCA
CCCTGGACGCTGGAGGCCTGCGGGCGCTGCTGGGGGAGCGAGCGGCGCAATGCCTGCTGC
TGGACTGCCGCTCCTTCTTCGCTTTCAACGCCGGCCACATCGCCGGCTCTGTCAACGTGC
GCTTCAGCACCATCGTGTGGCGCCGGGCCAAGGGCGCCATGGGCCTGGAGCACATCGTGC
CCAACGCCGAGCTCCGCGGCCGCCTGCTGGCCGGCGCCTACCACGCCGTGGTGTTGCTGG
ACGAGCGCAGCGCCGCCCTGGACGGCGCCAAGCGCGACGGCACCCTGGCCCTGGCGGCCG
GCGCGCTCTGCCGCGAGGCGCGCGCCGCGCAAGTCTTCTTCCTCAAAGGAGGATACGAAG
CGTTTTCGGCTTCCTGCCCGGAGCTGTGCAGCAAACAGTCGACCCCCATGGGGCTCAGCC
TTCCCCTGAGTACTAGCGTCCCTGACAGCGCGGAATCTGGGTGCAGTTCCTGCAGTACCC
CACTCTACGATCAGGGTGGCCCGGTGGAAATCCTGCCCTTTCTGTACCTGGGCAGTGCGT
ATCACGCTTCCCGCAGGACATGCTGGATGCCTTGGCATAACTGCCTTGATCAACGTCTCA
GCCAATTGTCCCACCATTTTTGGGGTCACTACCAGTACAGAGCATCCCGGTGGGAGACAC
CCCCAAGCAGACTCAGCTCCTGGTTAACGAGCCATTGACTCATAACTCATCAGAGCTGAG
GAAAGGGGGGTGGTCCACTGCAGCAGCATTCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004417 unedited
AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAATAAAAATGCCA
TAATTTATTCCATTGTATAAAAAAGTCATCCTTATGTAACAAAATGTCTTCTTAAAAAAA
AAAATATATTATTTCAGGTCATAAATAATCAGCAAACATACAACTGTTGGCAACTAAAAA
AAAACCCAACACTGGTATTTTCCATCAGGGCTGAAAACAAACCTGCTTAAAATATATTTA
CAGGATAGTACAGTCCTCAAAAACAAAAATTGAGGTATTTGGTTCTTCTAGGAGTAAACA
ATGACATTTGTGAAGGCAAACCCCTACACAAAAATAAATAAGGTATATTCTCATATGTAT
ATGGGCCGCCGGGAATAATACTGGTAGGTATGTCAAGCATGAAAAGATTCTACAAAAAAC
AGGGGCGAGCAAAAAGAAACCGGATCACACACTGAGTCCTTTCTCTTCTGCCCCATTTTG
TCAAATGGACTTGATGTACCCACTATATATTGGTCCCGAATGTGCTGAGTTCAGCAAATG
TCTTGACGCTAAGTCATCACCATAACTGCTTAGAAACCCAGAGGAACTCGGGTGAAGTTA
AATAAATAAGGACCAGCCCTCTAGAGCCCTTCCCAGATTATTGCATTTCTCCTCTCAAGA
GCATGGAGTCCCAATGGGATGTGAAGAGCCTCACCTCCCGTGGCCTTTCANCAGCTGGGA
AAAGGTCCTAATGGGGCTCTGAAGGTANCTCACCCCCCTTGTTCTGGAGTGAACAGGGAT
GGAACCGGGAANTTAACANCGGGGTGGTGGAGGTGCTTCGTCCAACCAGCCTGCGGGGCT
CCCACCTTTGCCAAAGTGCGAACCACACCTGGACTTAATGCNACACTGCCCATGAATTAA
TTGGGAAATTATCTCCTCTTGTTAAAAATAAAGGCTTGCCACTTGCTCCATATCCCTAAG
GAACAAGCAAATGGGCTACCGAAATCCTCTGAATG

Restriction Sites: NotI-NotI

ACCN: NM_004417

Insert Size: 1104 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:
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_004417.2, NP_004408.1

RefSeq Size: 2015 bp

RefSeq ORF: 1104 bp

Locus ID: 1843

UniProt ID: P28562

Cytogenetics: 5q35.1

Domains: DSPc, RHOD, PTPc_motif

Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy. [provided by RefSeq, Aug 2017]