

Product datasheet for **SC108794**

DUSP3 (NM_004090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP3 (NM_004090) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP3
Synonyms:	VHR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108794 sequence for NM_004090 edited (data generated by NextGen Sequencing)

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ATGTCGGGCTCGTTCGAGCTCTCGGTGCAGGATCTCAACGACCTGCTCTCGGACGGCAGC
GGCTGCTACAGCCTCCCGAGCCAGCCCTGCAACGAGGTCACCCCGCGGATCTACGTGGGC
AACGCGTCTGTGGCTCAGGACATCCCCAAGCTGCAGAACTAGGCATCACCCATGTGCTG
AACGCGGCTGAGGGCAGGTCCTTCATGCACGTCAACACCAATGCCAACTTCTACAAGGAC
TCCGGCATCACATACCTGGGCATCAAGGCCAACGACACACAGGAGTTCAACCTCAGCGCT
TACTTTGAAAGGGCTGCCGACTTCATTGACCAGGCTTTGGCTCAAAGAATGGCCGGGTG
CTCGTCCACTGCCGGAAGGTTATAGCCGCTCCCAACGCTAGTTATCGCCTACCTCATG
ATGCGGCAGAAGATGGACGTCAAGTCTGCCCTGAGCATCGTGAGGCAGAACCCTGAGATC
GGCCCAACGATGGCTTCTGGCCAGCTCTGCCAGCTCAATGACAGACTAGCCAAGGAG
GGGAAGTTGAAACCCTAG
```

Clone variation with respect to NM_004090.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004090 unedited
 CAACAATTTGTAATACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGGGCCTCGCT
 TGCTCCTGCCGGGCGTGCAGGGCCCCGCGCCGCATGTGCGGCTCGTTCGAGCTCTCGG
 TGCAGGATCTCAACGACCTGCTCTCGGACGGCAGCGGCTGCTACAGCCTCCCAGCCAGC
 CCTGCAACGAGGTCACCCCGGATCTACGTGGCAACCGCTCTGTGGCTCAGGACATCC
 CCAAGCTGCAGAACTAGGCATCACCCATGTGCTGAACGCGGCTGAGGGCAGTCCTTCA
 TGCACGTCAACACCAATGCCAATTCTACAAGGACTCCGGCATCACATACCTGGGCATCA
 AGGCCAACGACACACAGGAGTTCAACCTCAGCGTTACTTTGAAAGGGCTGCCGACTTCA
 TTGACCAGGCTTTGGCTCAAAGAATGGCCGGGTGCTCGTCCACTGCCGGAAAGTTATA
 GCCGCTCCCCAACGCTAGTTATCGCCTACCTCATGATGCGGCAGAAGATGGACGTCAGT
 CTGCCCTGAGCATCGTGAGGCAGAACCGTGAGATCGGCCCAACGATGGCTTCTGGCCC
 AGCTCTGCCAGCTCAATGACAGACTAGCCAAGGAGGGGAAGTTGAAACCTAGGGCACCC
 CCACCGCTCTGCTCGAGAGTCCGTGGGGGAGGCCGTGGGCAAAGGTGTCCCGAGCTGC
 CATGTTTAAGAAACACACTGTACCCTGCTCCCAGCATCACAAGCACTTGTCTACAAGTG
 TGTCCCAACACAGTCCTGNGCCACTTTCCACCCTGGGGAGCACATAAAGAAAGCTGCC
 CAGGGGGCGTNCCTGCTCCCCAGNTGGCTGGTTCTGTACTCATGAAGNCTTTTCTGA
 GAAGGGGCTCANAGGGGAAGCCTGGGCCTGCAGCTTCCGAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004090 unedited
 ATACTTTGGACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCCTTTA
 AAACAGTAGCATTTAACTTGTGGCACAAAAGGCACCAACATTCCTTTCCAAACCATCC
 ATCACCATGGGTGGAAGGCAGCGCCACCTGCTGGCCATCATATTATGGCTCACATACCCA
 TAATTTCTTGGCGTGTGAATCCAAGTGGGGATTATTAGAGACCCCTCAGAGCCAAAA
 GGGGACCTTAGAGTCTTCTAGATGAGTCCCCTCATTTGTAGGTGGTGGTTTCTGGATAA
 CTCAGAGTGGCAGGGACACAGACGAGCCTGTGGAAGGTATACTGCTTTAAGATTGAGAA
 GAAAACATTTGGCGCTTAATTTTGCCTGGATGGTGTCTGTGACCCAAAGAAAGGGAA
 CAGGTCTGGGGAGGGGTAAGGGCACCTGAGTTCCTGTTCCATCACTTCCCAGGCAGTA
 GAAGGCTGTCCAGGAACAGTTCCCATCCGCAGCTGGGCATGTGTTGGCTTTACACAAGA
 GACTCTACTTTTACTTGACGAATAAGACCAATCTTCCACAGTAAATACGGCGCCTCAG
 GGCCGAAGGACTATCACCAAACCTCAGTTATCTATTAACCTACTCTCCACCGCCAGGGA
 GTAACCTTCCAAATGCCAATTCTCCCCATGCCACCACAACTCCATACCCCTCTTTTC
 TTCCCCCCCCACCTCCCCTTGCCCGTTACCTGTCTGATTTGCCCATCCGCTATTAAC
 TTTCCGTACCTCCTTACGNTACCCCCACCTTTTTTCTGTCTTTTACACTAGTTTAGTT
 TAATCCTTTTATGCCCCCTCCGCCCCCCTTCTTATCTCCCTTCCCTCCCTGTTCCC
 CCCCCCTCCTTCTTTTTTTTTTCCCCCCTTCTTCTCCTTCCCTTCTCTACTC
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_004090

Insert Size:

3670 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_004090.2](#), [NP_004081.1](#)

RefSeq Size: 4116 bp

RefSeq ORF: 558 bp

Locus ID: 1845

UniProt ID: [P51452](#)

Cytogenetics: 17q21.31

Domains: DSPc

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 maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer. Although DUSP3 is expressed in both breast and ovarian tissues, mutation screening in breast cancer pedigrees and in sporadic tumors was negative, leading to the conclusion that this gene is not BRCA1. [provided by RefSeq, Jul 2008]