

## Product datasheet for **SC104666**

### **DUSP3 (AK055834) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DUSP3 (AK055834) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP3
Synonyms:	VHR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK055834, the custom clone sequence may differ by one or more nucleotides

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CACAGAGTCCCTCATGACCTCCCTTCCCAACTCCCGAATCCTCTCTTGAGTGTGGACCTCAACACCTT
GAGCCCTAGTAAAGGAACTATGCAAATGCAGGCCACTCTCCCACCACGTCTGTGCCCCGACTGTCCCC
ACAGCCTTCCACACCCTGTGCATAGGCAGCCCTCTCACGTCTTGAGGTCCGAAGTGGGGTGGGGTGTG
CGTCAGTTATTAGTGGATGGAGATTCCACAGCAAGGCTGCATTTGAATGATTTCCCTTAGGATGAATGGT
CCCTACACAAAGAGGCCTTGTGGGCAAACCTGGAGAACCCCCCTAAATCCATAGAGTTTTCAAATGTGA
ATCTTTGGAAGCCTTGAGTTCAGAATCTGCTGCTCTGGAATATTTCCCTTCGATCTTATCTCAGTCACTT
CGTTTTTGAAGAGTGTATGCCTTGGGCATGCTTTTTTTTTTTTTTTTTTTTGTAGAAAACAGGGAGTTGAA
GTCCAACCTATTTAAAAACCCACCATTGGAGAATTACAAGGTTTTGCCTGAATTGTAGTGTGGCA
AGCCCAAGCCACTCGTACTAAGTCTTTTTGTCTCGTTGCTATTCCAAGAACAGAAGGAGGAAGTTGGC
CAATTACAGCGTGTGTGCATGGATGTGTGTGGGGGGCTGCTCTCAGAAACCGGCCAGAAGACAAGCA
GGGAAGTGAAGGTCCCAGGCACACACCCTGCCATTGCAGTGGCTCTTACAGTCTCTGGTGCCAGCA
CGGGATCCCTGAAGTGACTCAGCCAGGCAGACATGAGACATGGCGGAGTGTCCAATGGATCCTTTATTG
GTGGTAGAGCAAAAAACCCAAACACGATAAACCTTTCAAAGACTTTCTAAGGATGATATTGGAATGCA
CCAGCCCTCACATGTGTATGCACATTTGCCAGAATATAAGAGTTTTGTTTAAATACAGTCTTGTAGGA
TTTTACGTTATTGTTATTTATGGAAGTGATTGTGATGCTATTTATCTTCAGGGTCACTCTGGGCAAGAG
AAGGTCCTCAGCCATGCCCCAGCACCTTGACATAGGTGTCTGATAAAAGTTTAAAGAAATTAACACTT
TTTGAGCACCAATATATATAGGCATTGTTCTGGTGGGTGTGTACAGCTCCCAGAAGACTGAATTTATG
GTAGGACTACTCGCAAGGCCTTGTGAAGGAGTCTTACCTAAAACAAAAGAAATATCAGGGACTTTTGTG
ACTATTTACAACCTCAGTTTTTACATTTAAATTCAGGCAGTGTAAATATGCCAAGGTAGGGAATGCCTTT
TTCAGAGTTGGCCAGGAGCTCCTGGTGGGACACGGAGAGGCAGGTGTGGCGTAAGGCCTACTCCCGGC
TGTGAAGGTCTCTGATCACACAGAAGCAGCCCTGCCAGCCTGGTCATTTGCTGTCCGCTTTTCTCTGTG
ACCACAGCAGCCCTGAACAACCCAGTATGTGTCTTCTTCTCCAGATAGTAAAAAGGTGTCCAGATAAACC
CACCTAAGTGAATGGCCATCCTCTAAACTGGGTACCTCACTGCACAGCTTCTAGGTAGCCTTCAAACCT
AATCTAAGTGTAGCCTCACAGTAACCCGTAAAGTTAGTAGAGCTTGTCTTGTATTGTGACCTTTTTTA
AAAAAAGGAACCGAGGTTCAAGATGATTAAGGGCCTGGCCCCAGGGTGTCCAGCTCCATAAGGTGGA
GCTGGGCAAGATTTGGGTTTGTGCTCCCTGAAGCTGGATTCTTTCATACGATACTTTTCTCAAGAAG
GGGGCTCCCTGGGATCTCCAGGTGACTGCACTTACCCTCAATCCAGCCCGGAGAAGCAAGTAAAAGG
GTGGGTCCCTCATAGGCTAGAATGTGCAGCTCTTCTCCAGGTGGGATGTAGCACCCAAAGTAGAGCTT
TCTGCTCTGCTCCTGGAAAAGGCTAGGGAGCTGGGGCTGGGGCTCCCCTCCCATGACCAGGCAGTGGTCA
CCCCATGGGACAGGCACAGCTACTTACGCGAACACAGCAGGTTGGTGTGGCTGGTAAGTAGGACCTCTC
GAAAGTCTCTGTGGGGCATGAGGGAGAAAAGGCCATTGGGAGAACTACTGCCTTTACTTTGGGACTACT
TTTATGCTGATAACTTGGGATTTCTTGATAGTCTTACCCTGAAACCCCGTATTTACTTAACAAGATT
TAGCTCTTAGTCTTCAAGTAAAATTAAGTCTCTTGTGTAAGAGCCAACACATGCCAGCTGCGGATGG
GAGCTGTTCTGGACAGCCTTCTACTGCCTGGGAAGTGTGGAACAGGAAGTCAAGGTGCCCTTACCCCT
TCCCAGACCTGTTCCCTTTCTTGGACTGACAGAGCACCATCCAGGCAAAATAGAGCGCCAAATGGTTT
TCTTCTCAATCTTAAAGCAGTATACCTTTCCACAGGCTCGTCTGTGTCCCTGCCACTCTGAGTTATCCAG
AAACCACCACCTACAAATGAGGGGACTCATCTAGAAGACCTTAAGGTCCCTTTTGGCTCTGAGGGGTC
TCTAATAATCCCCACTTGGAAATTCAGCACCGCAAGGAAATATGGGTATGTGAGCCATAATATGATGGCC
AGCAGGTGGCGTGCCTTCCACCATGGTATGGATGGTTTGGAAAGGGAATGTTGGTGCCTTTTGTGCC
ACAAGTTAAGATGCTACTGTTTTAAAGG
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK055834 unedited  
 GCCAAAATTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGTGGACCTCACAC  
 CCTTGAGCCCTAGTAAAGGAACTATGCAAATGCAGGNCCACTCTCCCCACCACGTCTGTG  
 CCCCAGCTGTCCCACAGCCTTCCACACCCTGTGCATAGGCAGCCCTCTCACGTCTTGA  
 GGTCCGAAGCTGGGGTGGGGTGTCCGTCAGTTATTAGTGGATGGAGATTCCCACAGCAA  
 GGCTGCATTTGAATGATTTCCCTTAGGATGAATGGTCCCTACACAAAGAGGCCCTTGTGGC  
 AAACCTGGAGAACCCTCTAAATCCATAGAGTTTTCAAATGTGAATCTTTGGAAGCCTT  
 GAGTTTCAGAACTGCTGCTCTGGAATATTTCCCTTCGATCTTATCTCAGTCACTTCGTTT  
 TTGAGAAGAGTGATGCCTTGGGCATGCTTTTTTTTTTTTTTTTTTTTGTAGAAAACAGGGAGT  
 TGAAGTCCAACCTATTTAAAAACCCACCATTGGAGAATTACAAGGGTTTTGCCTGAA  
 TTGTAGTGTGGCAAGCCCAAGCCACTCGTGCTAACTGCTTTTTGTCTCGTTGCTATTCC  
 CAAGAACAGAAGGAGGAAGTTGGCCAATTACAGCGTGTGTGCATGGATGTGTGTGGGGGG  
 CGTGCCTCTCAGAAACCGGCCAGAAAGACAAGCAGGAAGTAAAGGTCCCAGGCACACA  
 CCCTGCCATTGCAGGTGGCTCTTACAGCTCTCTGGTGCCAGCACGGATCCCTGNAGTG  
 ACTCAGCCAGNCAGACATGAGACATGGCCGNAGTGNCCAATGGATCCTTTATNGNNTGTA  
 GAGCANAAAACCCCAACACGAAAACCTTNCAAAGAACTTCTAGGATGATATNGAATGCAC  
 CAGCCTACATGTGTATGCCATTTGCCAGATATAGAANNTGTTTATACAGNNCTGTTAG  
 ATTTACGTN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK055834 unedited  
 TGATCGCTGTCCGCAATTANAGTTGAGTTTTTTTTTTTTTTTTTTTTTTTCTTTAAAAACAGT  
 TGCATCTTAACCTGTGGCACAAAAGGCACCAACATTCCCTTTCCAAACCATCCATCACCA  
 TGGGTGGAAGGCAGCGCCACCTGCTGGCCATCATATTATGGCTCACATACCCATAATTTTC  
 CTTGCGGTGCTGAATCCAAGTGGGGATTATTAGAGACCCTCAGAGCCAAAAGGGGACC  
 TTAGAGGTCTTCTAGATGAGTCCCCTCATTGTAGGTGGTGGTTTCTGGATAACTCAGAG  
 TGGCAGGGACACAGACGAGCCTGTGGAAGGTATACTGCTTAAAGATTGAGAAGAAAACC  
 ATTTGGCGCTCTAATTTTGCCTGGATGGTGTCTGTGCAGTCAAAGAAAGGGAACAGGTCT  
 GGGGAGGGGGTAAGGGCACCCCTGAGTTCCTGTTCCATCACTTCCCAGGCAGTAGAAGGCT  
 GTCCAGGAACAGCTCCCATCCGACGCTGGGCATGTGTTGGCTCTTACAAGAGACTTTAT  
 TTTACTTGAAGACTAAGAGCTAAATCTTGTTAGTAAATACGGGGTTTCAGGGGTGAAGGA  
 CTATCAAGAAATCCCAAAGTATCAGCATAAAAGTAGTCCCAAGTAAAAGCAGTAATTCT  
 CCAATGGCTTTTCTCCCTCATGCCCCCAAAAACCTTTCAGAAGGCCTAGTTAGCCAGCC  
 CCACCACCTGCTGGGTCCCGTAAGAGCTTGGCCTGGCCAAGGGGTGACACACTGCTGTCA  
 TGGGAGGGAACCCCAACCCAGTTCCTACCTTTCCAGAACAAAGAAAAAACCTTCTTTTG  
 GGGGCTCTCCCCCGGAAAAAATCGCATTTCTACCTTAAAGGCCCCCTTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK055834

**Insert Size:**

2750 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:** [AK055834.1](#)

**RefSeq Size:** 2758 bp

**RefSeq ORF:** 2758 bp

**Locus ID:** 1845

**Cytogenetics:** 17q21.31

**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]