

Product datasheet for **RG208337**

DUSP8 (NM_004420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP8 (NM_004420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUSP8
Synonyms:	C11orf81; HB5; HVH-5; HVH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208337 representing NM_004420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGGGACCGGCTCCCGAGGAAGGTGATGGATGCCAAGAAGCTGGCCAGCCTGCTGCGGGGCGGGC
 CTGGGGGCGCGTGGTCATCGACAGCCGCTCCTTCGTGGAGTACAACAGCTGGCATGTGCTCAGCTCCGT
 CAACATCTGCTGCTCCAAGCTGGTGAAGCGGCGGCTGCAGCAGGGCAAGGTGACCATTGCGGAGCTCATC
 CAGCCGGCTGCACGCAGCCAGGTGGAGGCTACGGAGCCACAGGACGTGGTGGTCTATGACCAGAGCACGC
 GGGACGCCAGCGTGTGGCCGACAGAGCTTCTCTCCATCCTGCTGAGCAAGCTGGACGGCTGCTTCGA
 CAGCGTGGCCATCCTCACTGGGGGCTTCGCGACCTTCTCTCTGCTTCCCCGGCCTCTGCGAGGGCAAG
 CCTGCTGCCCTGTACCCATGAGCCTCTCCAGCCCTGCCTGCCTGTGCCAGCGTGGGCTCACCCGCA
 TCCTGCCTCACCTCTACCTGGGCTCGCAGAAGGACGTCTAAACAAGGATCTGATGACGCAAATGGAAT
 AAGCTACGTCCTCAACGCCAGCAACTCCTGCCCAAGCCTGACTTCATCTGCGAGAGCCGCTTCATGCGG
 GTCCCCATCAACGACAACACTGTGAAAACTGCTGCCCTGGCTGGACAAGTCCATCGAGTTCATCGATA
 AAGCCAAGCTCTCCAGCTGCCAAGTCATCGTCCACTGTCTGGCTGGCATCTCCCGCTCTGCCACCATCGC
 CATCGCCTACATCATGAAGACCATGGGCATGTCCTCCGACGACGCCTACAGGTTTCGTGAAGGACAGGCGC
 CCGTCCATCTCGCCCAACTTCAACTTCTGGGCCAGCTGCTGGAGTACGAGCGCAGCCTGAAGTCTGTG
 CCGCCCTGCAGGGCGACCCGGGCACCCCTCAGGGACGCCGGAGCCTCCGCCAGTCTGCCCGCGGGG
 CCCGCTGCCACGGCTGCCACCACCTACCTCAGAGAGCGCTGCCACAGGAATGCGGCTGCCAGGGAGGGC
 GGCTGAGCGCGGGGCGGGGAGCCCCCGCGCCCCACGCCCGGGCACCAGCGCACTGCAGCAGGGCC
 TGCGCGGCTGCACCTCTCTCGGACCGCTGCAGGACACTAACCGCTCAAGCGTCTCTCTCCCTGGA
 CATCAAGTCTGCCTACGCCCTAGCAGGCGGCCGACGGCCCCGGGCCCCCCGACCCCGGCGAGGCCCGG
 AAGCTCTGCAAGCTGGACAGCCGTCGGGGCCGCGCTGGGCTGTCTCGCCCAGCCGGACAGCCCGG
 ACGCCGCGCTGAGGCGCGCCACGGCCCCCGCGGCGGCCCGGCCCGCCCGGCTCCCCGCGCGCTC
 CCCCAGCACAGCCTCGGCTGAACCTCGGCGATGCGGCCGGCAGACTCCGCGGCAGGCTCTCGGCC
 CTGTGCGCGCCCGGGCTGCCCGGCTGGCCAGCCGGCCCGGCCCGGGGCTGGGACCGCCGCTCGACT
 CCCCAGGCAGCCGTCGCCCCGCGGGCCCTGGTCTTACGCCCGAGGGCGCACAGGGGGCGGGCGGGGT
 GCTGTTTTCGCCCTTCGCGCGGGCGGGCCCGGGACCAGGCGGCGGCAGCGACTGCGCGCGCGGGAG
 GCAGCGAGGGCTGAGCCCGGGACGCGCGGACCGGCTGGCCCAGGAGCCGGCCCGGAGACGAGTTCA
 AGCGCCGAGCTGCCAGATGGAGTTCGAGGAGGCGATGGTGGAGGGGCGCGCGCGCGGAGGAGCTGGC
 CGCCCTGGGAAGCAGGCGAGCTTCTCGGGCAGCGTGGAGGTCATCGAGGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208337 representing NM_004420
 Red=Cloning site Green=Tags(s)

MAGDRLPRKVMADAKKLASLLRGGPGGPLVIDSRFVEYNSWHVLSVNICCSKLVKRRLLQQGKVTIAELI
 QPAARSQVEATEPQDVVYDQSTRDASVLAADSFLSILLSKLDGCFDSVAILTGGFATFSSCFPLCEGK
 PAALLPMSLSQPCLPVPSVGLTRILPHLYLGSQKDVLNKDLMTQNGISYVLNASNSCPKPDFICESRFMR
 VPINDNYCEKLLPWLKSIKIDKAKLSSQVIVHCLAGISRSATIAIAYIMKTMGMSDDAYRFVKDRR
 PSISPNFNFLGQLLEYERSLKLALQGDPTSGTPEPPPPSPAAGAPLPRLPPTSESAATGNAAREG
 GLSAGGEPAPPPTPPATSALQQGLRGLHLSSDRLQDTNRLKRSFSLDIKSAYAPSRPPDGPDPGPEAP
 KLCKLDSPSGAALGLSSPSPDPAAPPEARPRRRRPPAGSPARSPASLGLNFGDAARQTPRHGLSA
 LSAAPGLPGGQPAGGAWAPPLDSPGTPSPDGPWCFSPGAQGGVLFAPFGRAGAPGGGSDLRRRE
 AARAEPDARTGWPEEPAPETQFKRRSCQMEFEEMVEGRARGEELAALGKQASFSGSVEVIEVS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_004420.1 , NP_004411.1
RefSeq Size:	2377 bp
RefSeq ORF:	1878 bp
Locus ID:	1850
UniProt ID:	Q13202
Cytogenetics:	11p15.5
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 is 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 product inactivates SAPK/JNK and p38, is expressed predominantly in the adult brain, heart, and skeletal muscle, is localized in the cytoplasm, and is induced by nerve growth factor and insulin. An intronless pseudogene for DUSP8 is present on chromosome 10q11.2. [provided by RefSeq, Jul 2008]