

Product datasheet for **RG202411**

DUSP12 (NM_007240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP12 (NM_007240) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUSP12
Synonyms:	DUSP1; YVH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202411 representing NM_007240 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTTGGAGGCTCCGGGCCGAGTGATGGCTGCGAGCTCAGCAACCCAGCGCCAGCAGAGTCAGCTGTG
 CCGGGCAGATGCTGGAAGTGCAGCCAGGATTGATTTTCGGTGGGGCCGCGGCCGTCGCGGAGCCAGATCA
 CCTGAGGGAAGCGGGCATCACGGCCGTGCTAACAGTGGACTCGGAGGAGCCAGCTTCAAGGCGGGGCCT
 GGGGTCGAGGATCTATGGCGCCTCTTCGTGCCAGCGCTGGACAAACCCGAGACGGACCTACTCAGCCATC
 TGGACCGGTGCGTGGCCTTCATCGGTCAAGCCCGCGCTGAGGGCCGTGCGGTGTTGGTGCAGTGTATGC
 AGGAGTCAGTCGAAGTGTGGCCATAATAACTGCTTTTCTCATGAAGACTGACCAACTTCCCTTTGAAAA
 GCCTATGAAAAGCTCCAGATTCTCAAACAGAGGCTAAGATGAATGAGGGGTTTGAGTGGCAACTGAAAT
 TATACCAGGCAATGGGATATGAAGTGGATACCTCTAGTGAATTTATAAGCAATATCGTTTACAAAAGGT
 TACAGAGAAGTATCCAGAATTGCAGAAATTTACCTCAAGAACTCTTTGCTGTTGACCCAACCTACCGTTTCA
 CAAGGATTGAAAGATGAGGTTCTCTACAAGTGTAGAAAGTGCAGGCGATCATTATTTGCAAGTTCAGTA
 TTCTGGATCACCGTGAAGGAAGTGGACCTATAGCCTTTGCCACAAGAGAATGACACCATCTTCCATGCT
 TACCACAGGGAGGCAAGCTCAATGTACATCTTATTTTATTGAACCTGTACAGTGGATGGAATCTGCTTTG
 TTGGGAGTGATGGATGGACAGCTTCTTTGCCAAAATGCAGTGCCAAGTTGGGTTCTTCAACTGGTATG
 GTGAACAGTGCTCTTGTGGTAGGTGGATAACACCTGCTTTTCAAATACATAAGAATAGAGTGGATGAAAT
 GAAATATTGCCTGTTTTGGGATCACAACAGGAAAAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG202411 representing NM_007240
 Red=Cloning site Green=Tags(s)

MLEAPGPSDGCESNPSASRVSCAGQMLEVQPGLYFGGAAVAEPDHLREAGITAVLTVDSEEPSFKAGP
 GVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVLVHCHAGVSRVAIITAFMKTDQLPFEK
 AYEKLQILKPEAKMNEGFQWLKLYQAMGYEVDTSIAIKYRLQKVTEKYPELQNLQELFAVDPTTVS
 QGLKDEVLYKCRKCRSLFRSSSILDHREGSGPIAFHAKRMTSSMLTTGRQAQCTSYFIEPVQWMESAL
 LGVMDGQLLCPKCSAKLGSFNWYGEQCSCGRWITPAFQIHKNRVDEMILPVLGSQTGKI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007240

ORF Size: 1020 bp

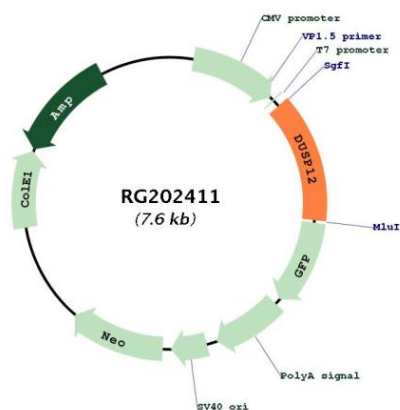
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_007240.1, NP_009171.1</u>
RefSeq Size:	1271 bp
RefSeq ORF:	1023 bp
Locus ID:	11266
UniProt ID:	<u>Q9UNI6</u>
Cytogenetics:	1q23.3
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>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 is the human ortholog of the <i>Saccharomyces cerevisiae</i> YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain.</p> <p>[provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG202411