

## Product datasheet for RC209271

### DUSP9 (NM\_001395) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP9 (NM_001395) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DUSP9
Synonyms:	MKP-4; MKP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209271 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGGTCTGGGCGCTCGTGCCTGTGGCTGCGTCGGGAGCTGTCGCCCCGCGGCCGCGGCTCCTGC  
TCCTGGACTGCCGAGCCGCGAGCTGTACGAGTCGGCGCGCATCGGTGGGGCGCTGAGCGTGCCCTGCC  
GGCGCTCCTGCTGCGCCGCTGCGGAGGGGAGCCTGTCGGTGCAGCGCTCCTGCCTGGCCGCCGCTG  
CAGCCGCCCGCTGCCCGTCTCCTGTACGACCAGGGCGGGGGCCGCGCCGGCGCGGGGAGGCCG  
AGGCCGAGGCCGAGGAGTGGGAGGCCGAGTCGGTGTGGGCACCCTGCTGCAGAAGCTGCGAGAGGAAGG  
CTACCTGGCTACTACCTCCAGGAGGCTTCAGCAGATTCAGGCGGAGTGCCCTCACCTGTGTGAGACC  
AGCCTTGCTGGCCGTGCCGGCTCCAGCATGGCGCCGTGCCCCGGTCCAGTGCCCGTGGTGGGGTTGGCA  
GCCTGTGCCTGGGCTCCGACTGCTCTGATGCGGAATCCGAGGCTGACCGGACTCCATGAGCTGTGGCCT  
GGATTCGGAGGGTGCCACACCCCAACAGTGGGCTGCGGGCATCCTTCCTGTCCAGATCCTGCCAAC  
CTCTATCTGGGCAGTGCCCGGATTCCGCCAATTTGGAGAGCCTGGCCAAACTGGGCATCCGCTACATCC  
TCAATGTACCCCAACCTCCAACTTCTTCGAGAAGAATGGTGACTTCACTACAAGCAGATCCCAT  
CTCCGACCACTGGAGCCAGAACCTGTGCGGTTCTTCCGGAGGCCATTGAGTTCAATGATGAGGCCTTG  
TCCAGAACCAGGGGTGCTCGTCACTGCTTGGCGGGGTGAGCCGTTCTGTACCGCTCACTGTGGCCT  
ACCTCATGCAGAAGCTCCACCTCTCTCAACGATGCCTATGACCTGGTCAAGAGGAAGAAGTCTAACAT  
CTCCCCAACTTCAACTTCATGGGGCAGTTGCTGGACTTTGAGCGCAGCTTGGCGCTGGAGGAGCCAC  
TCGAGGAGCAGGGCAGTGGGGGAGGCATCTGCGCCCTCAACCCGCCCTCCTTCTCACCCCCCA  
CCAGTGATGGCGCTTCGAGCTGGCCCCACC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC209271 protein sequence  
Red=Cloning site Green=Tags(s)

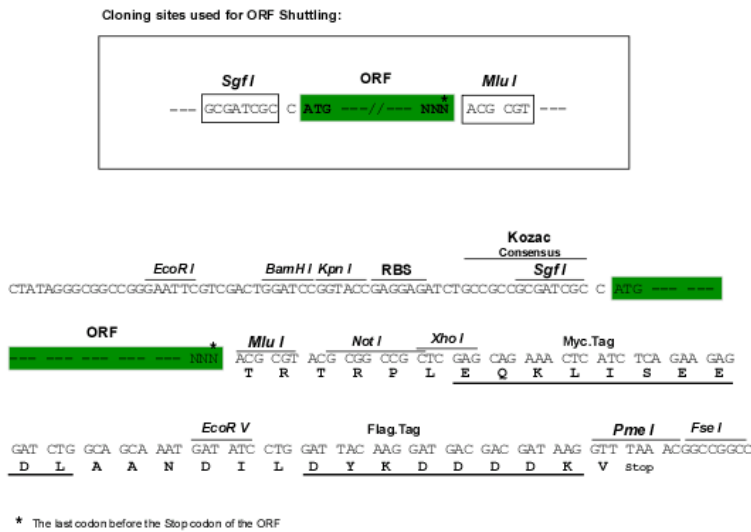
MEGLGRSCLWLRRELSPRRPRLLLDCRSRELYESARIGGALSVALPALLLRRLRRGSLSVRALLPGPPL  
 QPPPPAPVLLYDQGGRRRRGEAEAEAEWEAESVLGTLQKLEEGYLAYLQGGFSRFQAECPHLCET  
 SLAGRAGSSMAPLPGVPVVLGSLCLGSDCSDAESEADRDSMSCGLDSEGATPPPVLRASFPVQILPN  
 LYLGSARDSANLESLAKLGIRYILNVTNPNLNNFEKNGDFHYKQIPI SDHWSQNL SRFFPEAIEF IDEAL  
 SQNRGVLVHCLAGVSRSVTVTVAYLMQKLHL SLNDAYDLV KRKKSNI SPNFNFMGQLLDFERSLRLEERH  
 SQEQGSGGQASASNPPSFFTTPTSDGAFELAPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6227\\_h07.zip](https://cdn.origene.com/chromatograms/mk6227_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001395

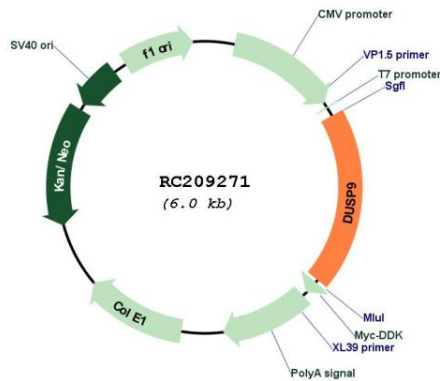
**ORF Size:** 1152 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

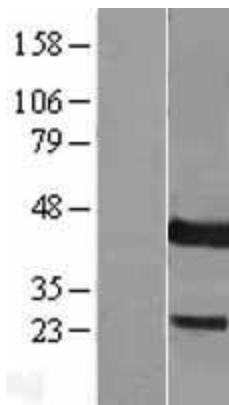
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001395.4</a>
<b>RefSeq Size:</b>	2394 bp
<b>RefSeq ORF:</b>	1155 bp
<b>Locus ID:</b>	1852
<b>UniProt ID:</b>	<a href="#">Q99956</a>
<b>Cytogenetics:</b>	Xq28
<b>Domains:</b>	DSPc, RHOD
<b>Protein Families:</b>	Phosphatase
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>MW:</b>	41.9 kDa
<b>Gene Summary:</b>	<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 shows selectivity for members of the ERK family of MAP kinases and is localized to the cytoplasm and nucleus. Aberrant expression of this gene is associated with type 2 diabetes and cancer progression in several cell types. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p>

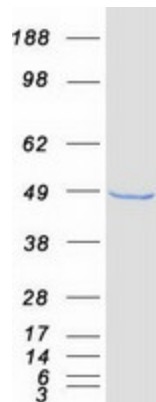
Product images:



Circular map for RC209271



Western blot validation of overexpression lysate (Cat# [LY419956]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209271 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DUSP9 protein (Cat# [TP309271]). The protein was produced from HEK293T cells transfected with DUSP9 cDNA clone (Cat# RC209271) using MegaTran 2.0 (Cat# [TT210002]).