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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGTCTGGGCCGCTCGTGCCTGTGGCTGCGTCGGGAGCTGTCGCCCCCGCGGCCGCGGCTCCTGC
TCCTGGACTGCCGCAGCCGCGAGCTGTACGAGTCGGCGCGCATCGGTGGGGCGCTGAGCGTGGCCCTGCC
GGCGCTCCTGCTGCGCCGCCTGCGGAGGGGCAGCCTGTCGGTGCGCGCGCTCCTGCCTGGGCCGCCGCTG
CAGCCGCCCCCGCCTGCCCCCGTGCTCCTGTACGACCAGGGCGGGGGCCGGCGCCGGCGCGGGGAGGCCG
AGGCCGAGGCCGAGGAGTGGGAGGCCGAGTCGGTGCTGGGCACCCTGCTGCAGAAGCTGCGAGAGGAAGG
CTACCTGGCCTACTACCTCCAGGGAGGCTTCAGCAGATTCCAGGCCGAGTGCCCTCACCTGTGTGAGACC
AGCCTTGCTGGCCGTGCCGGCTCCAGCATGGCGCCGTTGCCCGGTCCAGTGCCCGTGGTGGGGTTGGGCA
GCCTGTGCCTGGGCTCCGACTGCTCTGATGCGGAATCCGAGGCTGACCGCGACTCCATGAGCTGTGGCCT
GGATTCGGAGGGTGCCACACCCCCACCAGTGGGGCTGCGGGCATCCTTCCCTGTCCAGATCCTGCCCAAC
CTCTATCTGGGCAGTGCCCGGGATTCCGCCAATTTGGAGAGCCTGGCCAAACTGGGCATCCGCTACATCC
TCAATGTCACCCCCAACCTCCCAAACTTCTTCGAGAAGAATGGTGACTTTCACTACAAGCAGATCCCCAT
CTCCGACCACTGGAGCCAGAACCTGTCGCGGTTCTTTCCGGAGGCCATTGAGTTCATTGATGAGGCCTTG
TCCCAGAACCGCGGGGTGCTCGTCCACTGCTTGGCGGGGGTCAGCCGTTCTGTCACCGTCACTGTGGCCT
ACCTCATGCAGAAGCTCCACCTCTCTCTCAACGATGCCTATGACCTGGTCAAGAGGAAGAAGTCTAACAT
CTCCCCCAACTTCAACTTCATGGGGCAGTTGCTGGACTTTGAGCGCAGCTTGCGGCTGGAGGAGCGCCAC
TCGCAGGAGCAGGGCAGTGGGGGGCAGGCATCTGCGGCCTCCAACCCGCCCTCCTTCTTCACCACCCCCA
CCAGTGATGGCGCCTTCGAGCTGGCCCCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209271 protein sequence
Red=Cloning site Green=Tags(s)

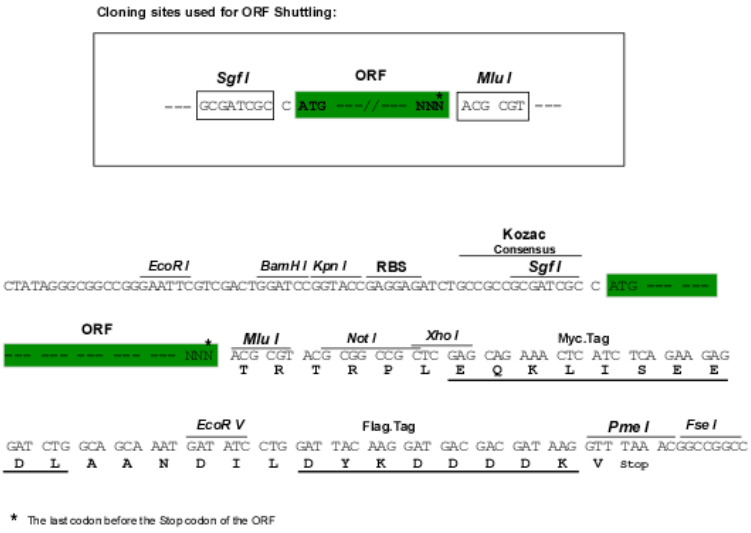
MEGLGRSCLWLRRELSPPRPRLLLLDCRSRELYESARIGGALSVALPALLLRRLRRGSLSVRALLPGPPL
QPPPPAPVLLYDQGGGRRRRGEAEAEAEEWEAESVLGTLLQKLREEGYLAYYLQGGFSRFQAECPHLCET
SLAGRAGSSMAPLPGPVPVVGLGSLCLGSDCSDAESEADRDSMSCGLDSEGATPPPVGLRASFPVQILPN
LYLGSARDSANLESLAKLGIRYILNVTPNLPNFFEKNGDFHYKQIPISDHWSQNLSRFFPEAIEFIDEAL
SQNRGVLVHCLAGVSRSVTVTVAYLMQKLHLSLNDAYDLVKRKKSNISPNFNFMGQLLDFERSLRLEERH
SQEQGSGGQASAASNPPSFFTTPTSDGAFELAPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6227_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001395

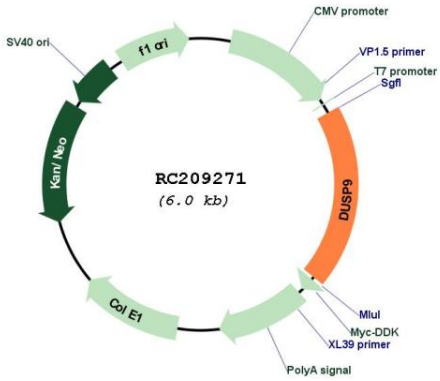
ORF Size: 1152 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

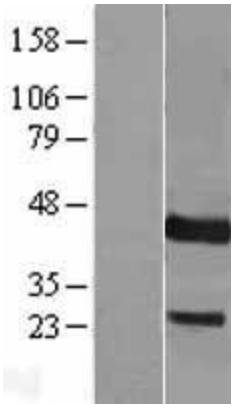
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

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:	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:	NM_001395.4
RefSeq Size:	2394 bp
RefSeq ORF:	1155 bp
Locus ID:	1852
UniProt ID:	Q99956
Cytogenetics:	Xq28
Domains:	DSPc, RHOD
Protein Families:	Phosphatase
Protein Pathways:	MAPK signaling pathway
MW:	41.9 kDa
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 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]

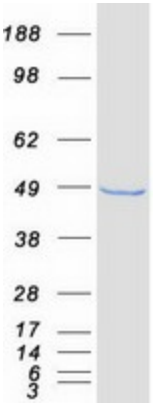
Product images:



Circular map for RC209271



Western blot validation of overexpression lysate (Cat# [LY419956]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected 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]).