

Product datasheet for RC200531

DUSP14 (NM_007026) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DUSP14 (NM_007026) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DUSP14
Synonyms: MKP-L; MKP6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC200531 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCTCCAGAGGTCACAGCACGCTACCAAGGACTCTCATGGCCCTCGGATGATTTCCGAGGGAGACA
TAGGAGGCATTGCTCAAATCACCTCCTCTATTCTGGGCAGAGGCAGTGTGGCCTCCAATCGGCACCT
CCTCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTAATTTCAACTGGCCCCAA
TTTGAGTATGTTAAAGTGCCCTGGCTGACATGCCGCATGCCCCATTGGACTGTACTTTGACACCGTGG
CTGACAAGATCCACAGTGTGAGCAGGAAGCACGGGGCCACCTTGGTGCCTGTGCTGCAGGGGTGAGCCG
CTCAGCCACGCTGTGATCGCGTACCTGATGAAATTCACAACGTGTGCCTGCTGGAGGCGTACAACCTGG
GTGAAAGCCCGGACCTGTGATCAGGCCAACGTAGGCTTCTGGAGGCAACTGATAGACTACGAGCGCC
AGCTCTTTGGGAAGTCGACAGTAAAATGGTACAGACACCTTATGGCATAGTTCCCGACGCTATGAGAA
GGAGTCCCGACACCTGATGCCTTACTGGGGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200531 protein sequence
Red=Cloning site Green=Tags(s)

MSSRGHSTLPRTLMPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFWPQ
FEYVKVPLADMPHAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLEAYNW
VKARRPVIRPNVGFWRQLIDYERQLFGKSTVKMVQTPYGI VPDVYEKESRHLMPYWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

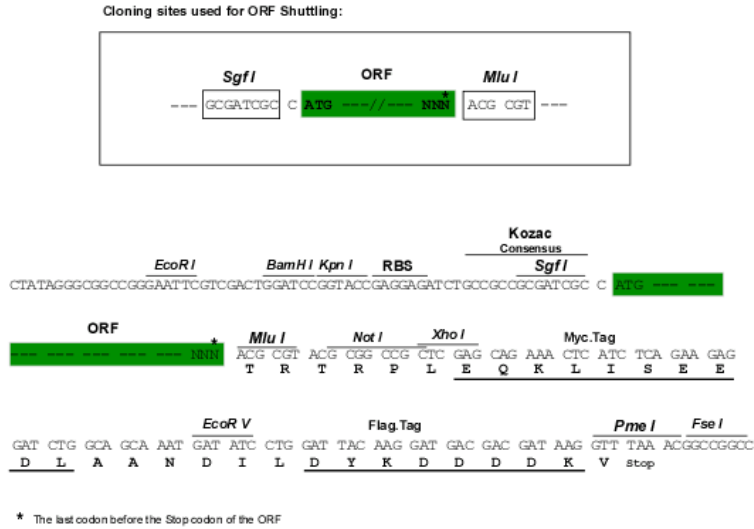
Chromatograms: https://cdn.origene.com/chromatograms/mk6081_e11.zip



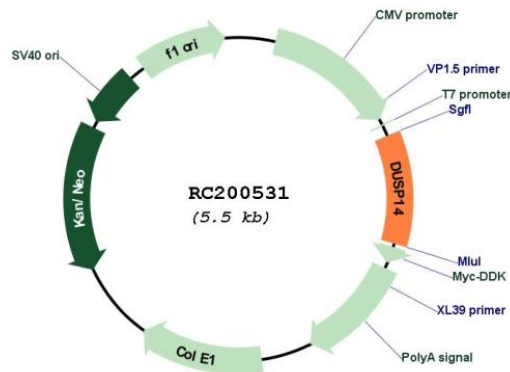
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007026

ORF Size: 594 bp

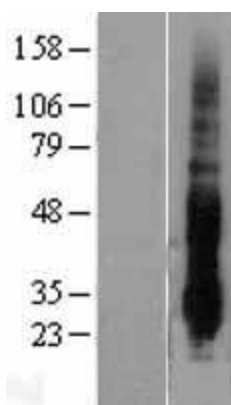
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

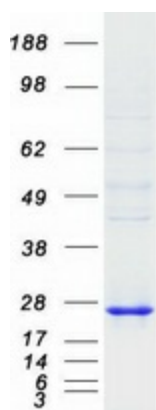
RefSeq: [NM_007026.4](#)

RefSeq Size:	1508 bp
RefSeq ORF:	597 bp
Locus ID:	11072
UniProt ID:	O95147 , Q6FI36
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	MAPK signaling pathway
MW:	22.3 kDa
Gene Summary:	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP14 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]

Product images:



Western blot validation of overexpression lysate (Cat# [LY402077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200531 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DUSP14 protein (Cat# [TP300531]). The protein was produced from HEK293T cells transfected with DUSP14 cDNA clone (Cat# RC200531) using MegaTran 2.0 (Cat# [TT210002]).