

Product datasheet for **RC200171**

DUSP23 (NM_017823) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DUSP23 (NM_017823) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DUSP23
Synonyms: DUSP25; LDP-3; LDP3; MOSP; VHZ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200171 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGTGCAGCCCCCAACTTCTCCTGGGTGCTTCCGGGCCGGCTGGCGGGACTGGCGCTGCCGCGGC
TCCCCGCCCACTACCAAGTTCCTGTTGGACCTGGGCGTGCGGCACCTGGTGTCCCTGACGGAGCGCGGGCC
CCCTCACAGCGACAGCTGCCCGGCTCACCTGCACCGCTGCGCATCCCCGACTTCTGCCGCGCGGCC
CCCGACCAGATCGACCGTTCGTGCAGATCGTGGACGAGGCCAACGCACGGGGAGAGGCTGTGGGAGTGC
ACTGTGCTCTGGGCTTTGGCCGACTGGCACCATGCTGGCCTGTTACCTGGTGAAGGAGCGGGGCTTGGC
TGCAGGAGATGCCATTGCTGAAATCCGACGACTACGACCCGGCTCCATCGAGACCTATGAGCAGGAGAAA
GCAGTCTTCCAGTCTACCAGCGAACGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200171 protein sequence
Red=Cloning site Green=Tags(s)
MGVQPPNFSWVLPGRLAGLALPRLPAHYQFLLDLGVRLVSLTERGPPHSDSPGLTLHRLRIPDFCPPA
PDQIDRFVQIVDEANARGEAVGVHICALFGRTGTMLACYLVKERGLAAGDAIAEIRRLRPGSIETYEQEK
AVFQFYQRTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6081_d10.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017823

ORF Size: 450 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:

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_017823.5](#)

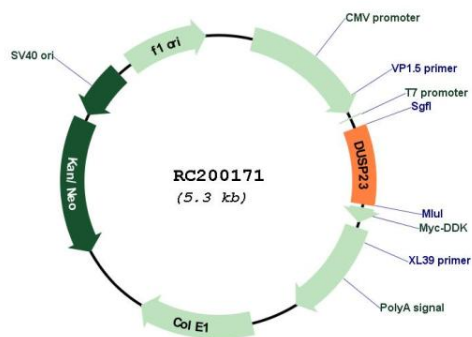
RefSeq Size: 718 bp

RefSeq ORF: 453 bp

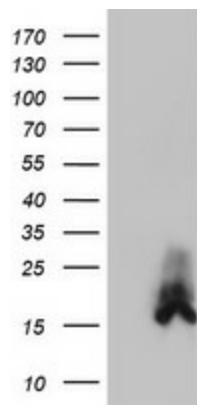
Locus ID: 54935

| | |
|-------------------|---|
| UniProt ID: | Q9BVJ7 |
| Cytogenetics: | 1q23.2 |
| Domains: | DSPc, PTPc_motif |
| Protein Families: | Druggable Genome, Phosphatase |
| MW: | 16.6 kDa |
| Gene Summary: | Protein phosphatase that mediates dephosphorylation of proteins phosphorylated on Tyr and Ser/Thr residues. In vitro, it can dephosphorylate p44-ERK1 (MAPK3) but not p54 SAPK-beta (MAPK10) in vitro. Able to enhance activation of JNK and p38 (MAPK14). [UniProtKB/Swiss-Prot Function] |

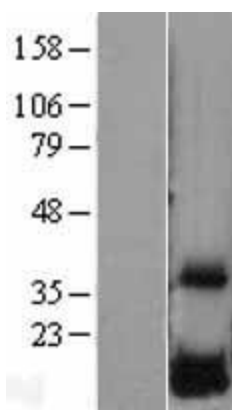
Product images:



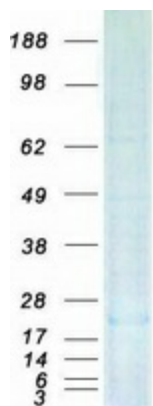
Circular map for RC200171



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DUSP23 (Cat# RC200171, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DUSP23 (Cat# [TA503944]). Positive lysates [LY402621] (100ug) and [LC402621] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402621]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200171 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DUSP23 protein (Cat# [TP300171]). The protein was produced from HEK293T cells transfected with DUSP23 cDNA clone (Cat# RC200171) using MegaTran 2.0 (Cat# [TT210002]).