

Product datasheet for **RC201517**

MOSPD1 (NM_019556) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: MOSPD1
Synonyms: DJ473B4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201517 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATCAACAAAAAGACAACCAGAGTTAGTGAAGGAAATCTTCCTGTTTTCTGTTCCCCACGGAGC
TCATATTTTATGCAGATGATCAGTCAACACATAAGCAAGTGTGACACTGTACAATCCCTATGAGTTTGC
CTTAAAGTTCAAAGTTTGTGTACTACTCCAAATAAGTATGTTGTCGTTGATGCTGCAGGTGCAGTAAAG
CCTCAGTGTGTGTGGATATTGTGATTCGTCATCGAGATGTTGATCCTGTCACATGGTGAATAGACA
AATTCGGTCTCCAAGTTTCCGAGCAAAGCCAAAGGAAGGCTTTGGGAAGAAAAGAGTTGTTGCTACTCT
TCTCCCATCAGCAAAAGAACAAACAAAAGGAAGGAAGGAAAAAGATTAAAGGAACATTTAACTGAAAGT
TTATTTTTTGTAGCAGTCGTTTCAACCAGAAAACAGAGCTGTATCCTCAGGACCTAGTTTACTAACTGTCT
TCCTGGGAGTGGTGTGCATTGCAGCCCTGATGCTGCCTACACTGGGGGATGTGGAATCGCTGGTGCCTCT
CTACCTCCACTTAAGTGTGAATCAAAAATTAGTGGCTGCTTATATCTTAGGTCTTATCACAATGGCCATA
CTTAGAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201517 protein sequence
Red=Cloning site Green=Tags(s)

MHQQRQPELVEGNLPVVFPTLIFYADDQSTHKQVLTLYNPYEFALKFKVLCTTPNKYVVVDAAGAVK
PQCCVDIVIRHRDVRSCHYGVIDKFRLQVSEQSQRKALGRKEVVATLLPSAKEQQKEEEEKRLKEHLTES
LFFEQSFQPENRAVSSGPSLLTVFLGVVCIALLMLPTLGDVESLVPLYLHLVSNQKLVAAYILGLITMAI
LRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

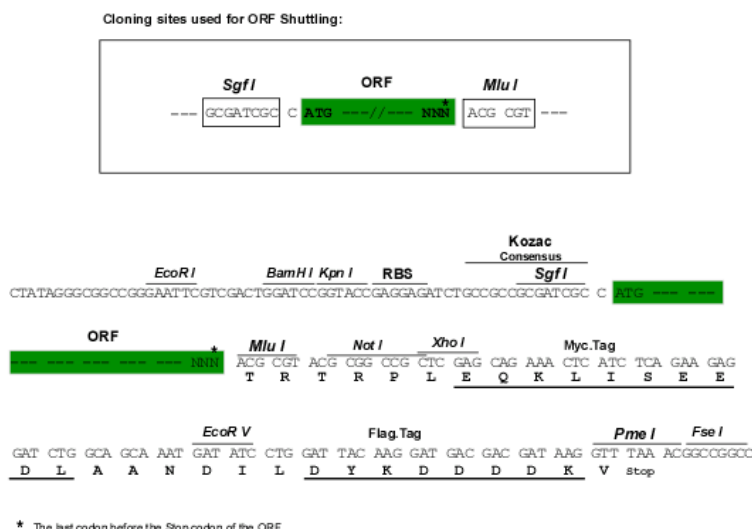


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Chromatograms: https://cdn.origene.com/chromatograms/mk6300_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019556

ORF Size: 639 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.

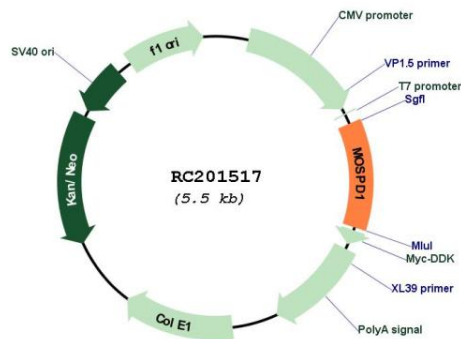
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019556.3](#)

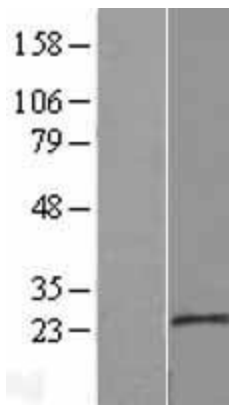
RefSeq Size: 2358 bp

RefSeq ORF:	642 bp
Locus ID:	56180
UniProt ID:	Q9UJG1
Cytogenetics:	Xq26.3
Domains:	MSP_domain
Protein Families:	Transmembrane
MW:	24.1 kDa
Gene Summary:	Plays a role in differentiation and/or proliferation of mesenchymal stem cells. Proposed to be involved in epithelial-to-mesenchymal transition (EMT). However, another study suggests that it is not required for EMT or stem cell self-renewal and acts during later stages of differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201517



Western blot validation of overexpression lysate (Cat# [LY412697]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201517 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).