

Product datasheet for **RC224127**

C4orf44 (MSANTD1) (NM_001042690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C4orf44
Synonyms:	C4orf44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224127 representing NM_001042690
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCGTGGGGCCGGGCGGGCCCTCGCTGAGCGCGCTCTCACCCACAGGCGCCTCCGGCATGG
CGGCGGCCGAGGGGCCGGCTACCTCGTGTCTCCCGAGGCGGAGAGCACCAGGCGGGCCCGCAACTGGAC
GGACGCCGAGATGCGCGGCCTCATGCTGGTCTGGGAGGAGTTCTTCGACGAGCTCAAGCAGACCAAGCGC
AACGCCAAGGTGTACGAGAAGATGGCCAGCAAGCTCTTCGAGATGACCGCGAGCGCAGGCTGGGCGAGG
AGATCAAGATCAAGATCACCAACATGACCTTCCAGTACAGGAAATTAATATGCATGACAGATAGCGAGTC
CGCCCCGCCCGACTGGCCCTATTACCTAGCCATTGATGGGATTCTGGCCAAGGTCCCCGAGTCCTGTGAT
GGCAAAGTGGCGGACAGCCAGCCGCGGGGCCCTCCACGTCCAGACCGAGGCGTCCCTGTCGCCGCCCG
CTAAGTCCACCCCTCTGTACTTCCCGTATAACCAGTGCTCTACGAAGGCCGCTTCGAGGATGATCGCTC
CGACAGCTCCTCCAGCTTACTGTCCCTTAAGTTAGGTTCGAGGAGCGGCGGTTGAAGAAGCGCAAGGTG
CAGAGCTGCCACCTGCAGAAGAAGCAGCTGCGGCTGCTGGAGGCCATGGTGGAGGAGCAGCGCCGGCTGA
GCCGCGCCGTGGAGGAGACCTGCCGCGAGGTGCGCCGCTGCTGGACCAGCAGCACATCCTGCAGGTGCA
GAGCTGCAGCTGCAGGAGCGCATGATGAGTCTGCTGGAGAGGATCATCACCAGTCCAGCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC224127 representing NM_001042690

Red=Cloning site Green=Tags(s)

MVRGAGPGPSLSALSHPTGASGMAAEGPYLVSPQAEKRRARNWTDAMRGLMLVWEEFFDELKQTKR
NAKVYEKMASKLFEMTGERRLGEEIKIKITNMTFQYRKLKCMDSESAPDPWYYLAIDGILAKVPESCD
GKLPSQPPGPSTSQTEASLSPPAKSTPLYPYNQCSYEGRFEDDRSDSSSSLLSLKFRSEERPVKRRKV
QSCHLQKKQLRLLEAMVEEQRLSRAVEETCREVRRVLDQQHILQVQSLQLQERMMSLLERITKSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

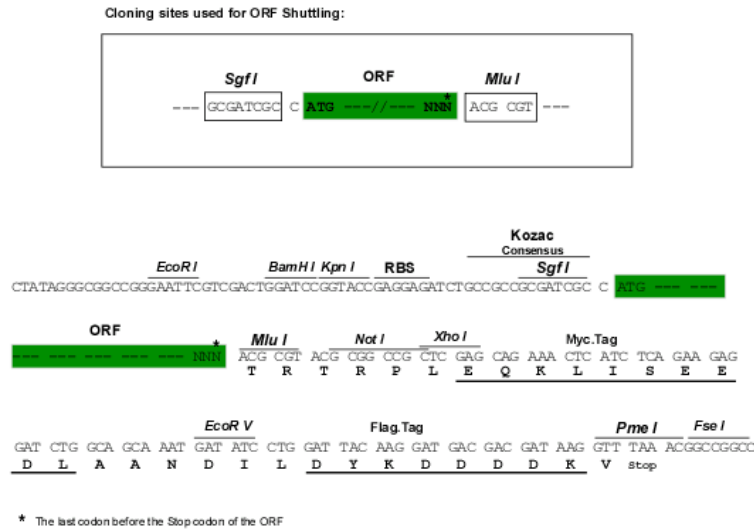
Chromatograms:

https://cdn.origene.com/chromatograms/mk8044_c06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001042690

ORF Size:

834 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_001042690.2

RefSeq Size: 1670 bp

RefSeq ORF: 837 bp

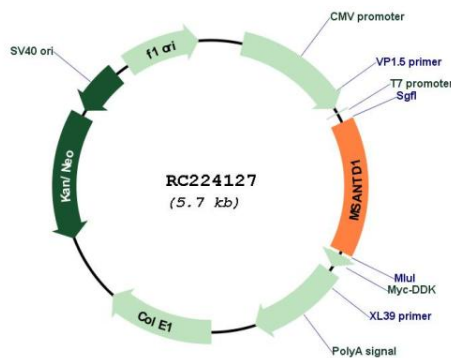
Locus ID: 345222

UniProt ID: Q6ZTZ1

Cytogenetics: 4p16.3

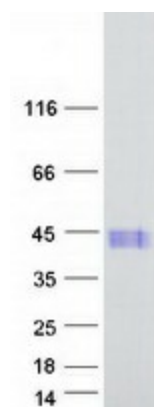
MW: 31.5 kDa

Product images:



Circular map for RC224127

Western validation with an anti-DDK antibody
 * L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified MSANTD1 protein (Cat# [TP324127]). The protein was produced from HEK293T cells transfected with MSANTD1 cDNA clone (Cat# RC224127) using MegaTran 2.0 (Cat# [TT210002]).