

Product datasheet for **MR209445**

Muc20 (NM_146071) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Muc20 (NM_146071) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Muc20 |
| Synonyms: | BC026367 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR209445 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTGTCCACCTTCACTCAAAGGGACAGGCCAGCTCAGAGAGAGCTTCCAGACCACCAACCTGA
 TTCAGTATGTACCTCTAGACACGCAAACCTCTCAGCACTGAATCTGCTTCTAATGCTTAAAGTGCAACTAG
 TATCAGTTCAGAGGTCAATTCCAGAGACACTCAGACCACCTCTTTTGTAAACAAAGACCAGGAAGACACAT
 ACTACCACTCCTGCAGCATCATCCCTAGAGGCCAGACCACCTCTCCTAATTTGTCAACCCTGAATATTC
 AGATTACCTCCCAATAGCATCGTCCCTGGATGCTCAGACCATTTTTCTGTATCATTATCCCTGAGTAC
 CCAGACCATTCTCCTGCACCATCATTCTGGATACCCAAACCACTTCCCCTGAACCATCATCTCTGACC
 ACTTCCCCTGCACCATCATCTCTGATCACTTCTCTACTCCATCATCTCTAACTACATCCCCTGCACCAT
 CATTCTGGATACCCAGACCCTTCCCCTGCACCATCATCTCTGACCCTTCCCCTGCACCATCATCCCT
 AGATACCAGACCATCTCACCTATTGAATTGACCTAAAGACCCAAACCTTTCCACTGTAAACGGAGACC
 AGAACGGTTTCAATAAGAATACCTTCTGACCTCACGGTTATGCACACCATCCCTACAGAGACATTGGCAC
 CAAGCAACAGCCCCAGAACTGGGATGAGCACTGTCCAAACTGGCACAGTGTGGGACTCCATAGAAGCCGT
 CTTTGACACCTTTGTACCGATGACAGCTCTGAAGAGGCAAGGAAGATCACAGTTGACCTCCTGACGTTG
 GCACACACCTCCACGGAAGTGGAGTACCTGTCTCAGAGAGCAGCTTCTCCTCTGACAGTTCAGCTGGGG
 TCCTCAGCAGCTCAGGAGTCTGGGACCCGACAGTGAACCTCCAGCCAAGGGGTTGGTTGCCTTCAACAT
 CACTCATATTAACCTCAGCAACTGCATCACAGAAATAGAAACAACCATCACCATCTCTGGGGCCCCAGGC
 GCGAGCCTCAGCCCTACAGAAGCGACGGCAGCTTTGTTCACTTCTGAGATTAACCTTTCCTCCACCCA
 CTGAGGCCAAAACCAATTTCCCGAGACCACAAGCTTATCTGGGATCCTGTCAACTGTGGCACCDCGGC
 CCTTGCCACCACCTTGAGGGGACAGTCTCCACTAGTGAATCACAGAAAGCGAAACAGCAGTGGCCCCAG
 ACTCTTACCTCTGTTGGAACCTTCGGTGACAGTTAGAAGGAACCCCTGGAAAACACTTCAACACTCTCTA
 TTGAGACACAAAGCCACACTGAGGTCTTGGGCACCATCACAGTCCCATGGTTGCTGGATCAACAATGGG
 AGAAGCAGCCTCCTTCGTGAGTTTACGGCTCTCGACAGCAGCAGTCTCTCAGTGGTGGTACCACCGAG
 AGCTCTGCTACCTCAGAGACTTTAACACAGGCAATACAACCAACAGCTCCTTCTCACAGAGAGCCACC
 CTCCTTTTTCTATCTATTCAACTACAGTAGCACCAGCAAAAACCCAAACATCACCTTAACCAAGACCAC
 AGCCTCACAAAGCCCCGACGCATCTACAACATCTGCATCCACTGCTTGGATAAGGAAAACCAAAAA
 CATGATCCAGGTGAAGATGGAGGCTTCTCCTTGTACGGCTGACCGTGGCCTCCCCTAAGGACCTACTG
 AGCACAACGCCAGAGAGAAGCTGATGAACCAGCTCCGCCGTGAAGTGCACGCCCGCATGCCACTTGTCCA
 CATGTCTTCTCTGAGCATCAGGAGGGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

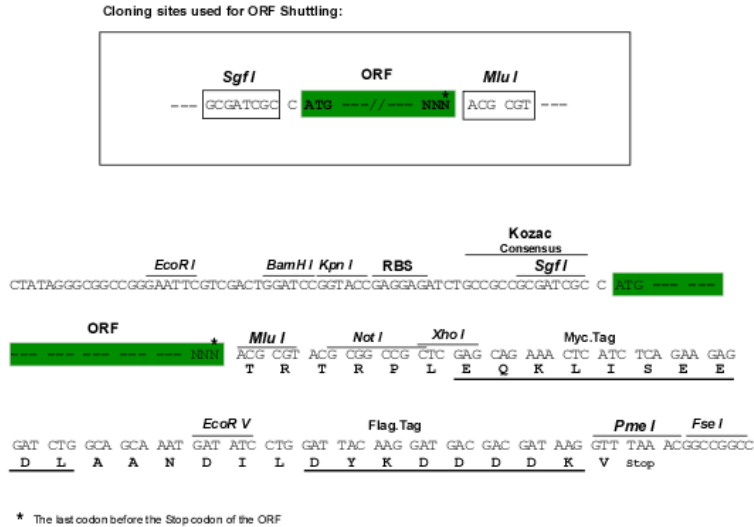
>MR209445 protein sequence
 Red=Cloning site Green=Tags(s)

MEVSTFTQRDRPSSERAFQTTNLIQYVPLDTQLSTESASNALSATISSEVNSRDQTTSFVTKRKH
 TTTPAASSLEAQTTPNLSTLNIQITSPIASSLDAQTIFPVLSLSTQTTSPAPFLDTQTTSPPESSLT
 TSPAPSSLITSPSSLTTPAPFLDTQTTSPAPSSLTTPAPSSLDQTISPIELTLKTQISTVTET
 RTVSIRIPSDLTVMHTIPTETLAPSNRPRTGMSTVQGTGVWDSIEAVFDLCTDSSSEARKITVDLLTL
 AHTSTEVEYLSSESSSSDSSAGVLSRRVLPDSATPAKGLVAFNITHIKLSNCITEIETITISGAPG
 ASLSPTEATAALFTSEILTLPPPTEAKPIFPETTSLSGILSTAGTPALATTLEGTVSTSAITSETAVAQ
 TLTSVGTSVTVRRNPLENTSLSIETQSHTEVLGTITVPMVAGSTMGEAASFVSFTALDSSSLSVVVTTE
 SSATSETLTTGNTTNSFLTESHPFISIYSTASTSKNPNILTKTTASPKPPTHPTTSASTAWIRKTKK
 HDPGEDGGFLLVRLTVASPKDLTEHNAREKLMNQLRRELHARMPLVHMSFLSIRRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146071

ORF Size: 1851 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_146071.2](#)

RefSeq Size: 2555 bp

RefSeq ORF: 1971 bp

Locus ID: 224116

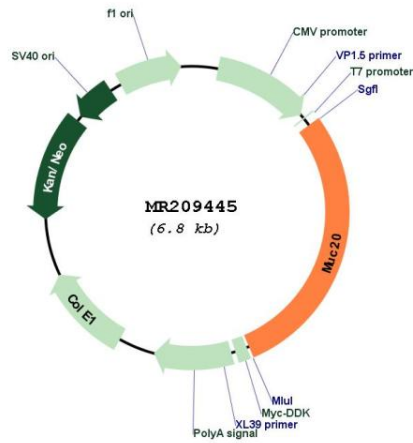
UniProt ID: [Q8BUE7](#)

Cytogenetics: 16 B3

MW: 64.6 kDa

Gene Summary: May regulate MET signaling cascade. Seems to decrease hepatocyte growth factor (HGF)-induced transient MAPK activation. Blocks GRB2 recruitment to MET thus suppressing the GRB2-RAS pathway. Inhibits HGF-induced proliferation of MMP1 and MMP9 expression (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209445