

Product datasheet for **MR215789**

Muc20 (NM_001145874) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Muc20 (NM_001145874) 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) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR215789 representing NM_001145874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCTGTCTGGGGCTGGCTGTGCCCTCCTTGTCTTCTGTCTGGAAGGTTGGCGTCAGTGTGAGCT
 CTCAGGTCTCGACATTAGCAGATCAGTTCCTTTGGTGACAACCAACAACATGGAAGTGCCACCTTCAC
 TCAAAGGGACAGGCCAGCTCAGAGAGAGCTTCCAGACCACCAACCTGATTCAGTATGTACCTCTAGAC
 ACGCAAATCTCAGCACTGAATCTGCTTCTAATGCTTTAAGTGCAACTAGTATCAGTTCAGAGGTCAATT
 CCAGAGACACTCAGACCCTCTTTTGTAAACAAGACCAGGAAGACACATACTACCCTCTGCAGCATC
 ATCCCTAGAGGCCAGACCCTCTCCTAATTTGTCAACCCTGAATATTCAGATTACCTCCCAATAGCA
 TCGTCCCTGGATGCTCAGACATTTTTCTGTATCATTATCCCTGAGTACCCAGACCCTCTCCTGCAC
 CATCATTCTGGATACCCAAACCACTTCCCTGAACCATCATCTCTGACCCTTCCCTGCACCATCATC
 TCTGATCACTTCTCTACTCCATCATCTCTAACTACATCCCTGCACCATCATTCTGGATACCCAGACC
 ACTTCCCTGCACCATCATCTCTGACCCTTCCCTGCACCATCATCCCTAGATACCCAGACCATCTCAC
 CTATTGAATTGACCCAAAGACCCAAACCAATTTCCACTGTAACGGAGACCAGAACGGTTTCAATAAGAAT
 ACCTTCTGACCTCACGGTTATGCACACCATCCCTACAGAGACATTGGCACCAAGCAACAGCCCCAGAAT
 GGGATGAGCACTGTCAAACCTGGCACAGTGTGGGACTCCATAGAAGCCGTCTTTGACACCCTTTGTACCG
 ATGACAGCTCTGAAGAGGCAAGGAAGATCACAGTTGACCTCCTGACGTTGGCACACACCTCCACGGAAAT
 GGAGTACCTGTCTCAGAGAGCAGCTCTCCTCTGACAGTTCAGCTGGGGTCTCAGCAGCTCACGAGTC
 CTGGGACCCGACAGTGAACCTCCAGCAAGGGTGGTTGCCTTCAACATCACTCATATTAACCTCAGCA
 ACTGCATCACAGAAATAGAAACAACCATCACATCTCTGGGGCCCAGGCGGAGCCTCAGCCCTACAGA
 AGCGACGGCAGCTTTGTTCACTTCTGAGATATTAACCTTGCCTCCACCACTGAGGCAAAACCAATTTTC
 CCCGAGACCACAAGCTTATCTGGGATCCTGTCAACTGCTGGCACCCCGGCCCTTGCCACCACCCTTGAGG
 GGACAGTCTCCACTAGTGAATCACAGAAAGCGAAACAGCAGTGGCCAGACTCTTACCTCTGTTGGAAC
 TTCGGTGACAGTTAGAAGGAACCCCTGGAAAACACTTCAACACTCTCTATTGAGACACAAGCCCACT
 GAGGTCTTGGGCACCATCACAGTCCCCATGGTTGCTGGATCAACAATGGGAGAAGCAGCCTCCTTCGTGA
 GTTTCACGGCTCTCGACAGCAGCAGTCTCTCAGTGGTGGTCACCACCGAGAGCTCTGCTACCTCAGAGAC
 TTTAACCAAGGCAATACAACCAACAGCTCCTTCTCACAGAGAGCCACCCTCCTTTTTCTATCTATTCA
 ACTACAGCTAGCACCAGCAAAAACCAACATCACCTTAACCAAGACCACAGCCTCACCAAGCCCCCGA
 CGCATCTACAACATCTGCATCCACTGCTTGGATAAGGAAAACCAAAAACATGATCCAGGTGAAGATGG
 AGGCTTCTCCTTGTACGGCTGACCGTGGCCTCCCTAAGGACCTCACTGAGCACAACGCCAGAGAGAAG
 CTGATGAACCAGATAGTGACTCACGAGCATCTGGTCTGGACATCTGCCCTCGAGATGGGGAAGAAGTG
 GACGTCCTTCTGGCTTCTCCACTCCTCTCTGCTCTCTGCGGAGCCTGCAGGAGGAAGGCTCCATC
 ACGGCGCCTATCAGCTGGTTGTTTCAGATAGTGGA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215789 representing NM_001145874
Red=Cloning site Green=Tags(s)

MGSVWGLAVPLL VFCWKVGVSVSSPGLDISRSVPLVTTNNMEVSTFTQRDRPSSERAFQTTNLIQYVPLD
 TQTLSTESASNALSATSISSSEVNSRDTQTTSFVKTRKTHHTTPAASSLEAQTTPNLSTLNIQITSPIA
 SSLDAQTI FVSVLSLSTQTTSPAPSF LDTQTTSPEPSSLTSPAPSSLITSPTPSSLTTSPPSFLDTQT
 TSPAPSSLTSPAPSSLDQTISP IELTLKTQTISTVTE TRTVSIRIPSDLTMHTIPTETLAPSNSPRT
 GMSTVQGT VWDSEI AVFDLCTDDSS EARKITVDLLTLAHTSTEVEYLSSESSSSDSSAGVLS SRRV
 LGPDSATPAKGLVAFNITHIKLSNCITEIETTITISGAPGASLSPTEATAALFTSEILTLPPPTEAKPIF
 PETTSLGILSTAGTPALATTLEGT VSTSAITESETAVAQTLTSVGT SVTVRRNPLENTSTLSIETQSH
 EVLGTITVPMVAGSTMGEAASFV SFTALDSSSLSVVVTTESSATSETLTTGNTTSSFLTESHPPFSIYS
 TTA STSKPNITLTKTTASPKPPTHTT SASTAWIRKTKHDPGEDGGFLLVRLTVASPKDLTEHNAREK
 LMNQIVTHEPSGPHLPSRWGRSGRPSWLLHSSSASPAEPAGGRPPSRRLSAGCSDSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001145874

ORF Size: 2064 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_001145874.1](#), [NP_001139346.1](#)

RefSeq Size: 3673 bp

RefSeq ORF: 2067 bp

Locus ID: 224116

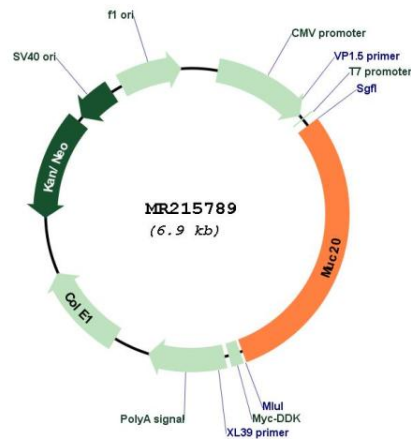
UniProt ID: [Q8BUE7](#)

Cytogenetics: 16 B3

MW: 72 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 MR215789