

Product datasheet for **RC222835**

MUC20 (NM_152673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_152673) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MUC20
Synonyms:	MUC-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222835 representing NM_152673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGTTGGGGTCTCTGGGAGCT
 CTGCAGGCCCCAGCACCCGAGAGCAGACTGCGATGACAACGACGACACAGAAGTGCCCGCTATGAC
 TCTAGCACCGGGCCACGCCGCTCTGAAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCTCAACC
 CCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGA
 GTTTCACAAAAACATCTCCAACCTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGG
 CAGCCCCGAGGGAGCTGGAATGACCACAGTTAGACCATCACAGGCAGTATCCAGGGAAGCCATCTTT
 GACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACATTGGCTC
 ACACCTCCACAGAAGCTAAGGGCTGTCTCAGAGAGCAGCGCTCTCCGACAGCCCCATCCAGTCAT
 CACCCCGTCACGGCCTCAGAGAGCAGCGCTCTCCGACGGCCCCATCCAGTCATCACCCGTCACGG
 GCCTCAGAGAGCAGCGCTCTCCGACGGCCCCATCCAGTCATCACCCGTCATGGTCCCCGGGATCTG
 ACGTCACTCTCCTCGCTGAAGCCCTGGTACTGTCACAAACATCGAGTTATTAATTGCAGCATCACAGA
 AATAGAAACAACGACTTCCAGCATCCCTGGGGCTCAGACACAGATCTCATCCCCACGGAAGGGTGAAG
 GCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCA
 CAGCCTCTGCCGAGACCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTGATGCCACGGTTGGGAC
 CCCACTCCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCT
 CTGGTCACAGTTAGCAGGAATCCCCTTGAAGAACTCAGCCCTCTCTGTTGAGACCAAGTTACGTCA
 AAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTCTTTGCTGG
 GAGCTCTGCTTCTCCTACAGCCCTCGGAAGCCGCCCTCAAGAACTTCAACCCTCAGAGACACCGACC
 ATGGACATCGCAACCAAGGGGCCCTCCCCACCAGCAGGACCCTCTTCTTCTGCTCCCTCCGACTACAA
 CCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAGCC
 CCCAACAGCCACGCCACGACTGCCCGACGAGGCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGT
 TTCCTCCTCTGCGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGA
 TGCAGCAGCTCCACCGGAACTCCACGCCACGCGCTCACTTCCAGTCTCCTACTGCGTGCAGGAG
 AGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222835 representing NM_152673
 Red=Cloning site Green=Tags(s)

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHALETQTLAETSSRAST
 PAGPIPEAETRGAKRISPARETRSFRTKSPNFMVLIATSVETSAASGSPEGAGMTTVQITGSDPREAIF
 DTLCTDSSSEEAKLTMDILTLAHTSTEAAGLSSSESSASSDSPHPVITPSRASESSASSDGHVITPSR
 AESSASSDGHVITPSRSPGSDVTLAEALVTNIEVINCSITEIETTTSSIPGASDLDLIPTEGVK
 ASSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPDATVGTPLPTNSATEREVTAPGATLSGA
 LVTVSRNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTTSFAGSSASSYSPSEAALKNFTPSETPT
 MDIATKGFPTSRDPLPSVPPTTNSRRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTDVSAGENGG
 FLLLRLSVASPEDLTDPRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8116_f04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_152673

ORF Size: 1614 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_152673.2](#), [NP_689886.2](#)

RefSeq Size: 6211 bp

RefSeq ORF: 1617 bp

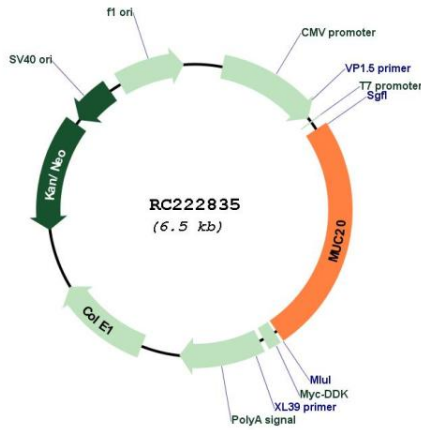
Locus ID: 200958

UniProt ID: [Q8N307](#)

Cytogenetics: 3q29
MW: 55 kDa

Gene Summary: This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins secreted by many epithelial tissues to form an insoluble mucous barrier. The C-terminus of this family member associates with the multifunctional docking site of the MET proto-oncogene and suppresses activation of some downstream MET signaling cascades. The protein features a mucin tandem repeat domain that varies between two and six copies in most individuals. Multiple variants encoding different isoforms have been found for this gene. A related pseudogene, which is also located on chromosome 3, has been identified. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC222835