

Product datasheet for **RG222835**

MUC20 (NM_152673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_152673) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUC20
Synonyms:	MUC-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222835 representing NM_152673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGTTGGGGTCTCTGGGAGCT
 CTGCAGGCCCCAGCACCCGCAGAGCAGACTGCGATGACAACGACGACACAGAAGTGCCCGCTATGAC
 TCTAGCACCGGGCCACGCCGCTCTGAAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCTCAACC
 CCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGA
 GTTTCACAAAAACATCTCCCACTTCAATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTG
 CAGCCCCGAGGGAGCTGGAATGACCACAGTTAGACCATCACAGGCAGTGATCCCAGGAAGCCATCTTT
 GACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACATTGGCTC
 ACACCTCCACAGAAGCTAAGGGCTGTCTCAGAGAGCAGTGCCCTTCCGACGGCCCCCATCCAGTCAT
 CACCCCGTCACGGCCTCAGAGAGCAGCGCTCTCCGACGGCCCCCATCCAGTCATCACCCGTCACGG
 GCCTCAGAGAGCAGCGCCTCTCCGACGGCCCCATCCAGTCATCACCCGTCATGGTCCCCGGGATCTG
 ATGCACTCTCCTCGCTGAAGCCCTGGTACTGTCACAAACATCGAGTTATTAATTGCAGCATCACAGA
 AATAGAAACAACAATTCAGCATCCCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGTGAAG
 GCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCA
 CAGCCTCTGCCGAGACCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTCATGCCACGGTTGGGAC
 CCCACTCCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCT
 CTGGTCACAGTTAGCAGGAATCCCCTGGAAGAACTCAGCCCTCTCTGTTGAGACCAAGTTACGTCA
 AAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAATCTCTTTGCTGG
 GAGCTCTGCTTCTCCTACAGCCCTCGGAAGCGCCCTCAAGAACTTCAACCCTCAGAGACACCGACC
 ATGGACATCGCAACCAAGGGGCCCTCCCCACCAGCAGGACCCTCTTCTTCTGCTCCCTCCGACTACAA
 CCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAGCC
 CCCAACAGCCACGCCACGACTGCCCGACGAGGCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGT
 TTCCTCTCTGCGGCTGAGTGTGGTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGA
 TGCAGCAGCTCCACCGGAACTCCACGCCACGCGCTCACTTCCAGTCTCCTACTGCGTGCAGGAG
 AGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222835 representing NM_152673
 Red=Cloning site Green=Tags(s)

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHALETQTLSAETSSRAST
 PAGPIPEAETRGAKRISPARETRSFTKSPNFMVLIATSVETSAASGSPEGAGMTTVQITGSDPEEAI
 DTLCTDSSSEAKLTMIDILTAHTSTEAKGLSSESSASSDGPVITPSRASESSASSDGPVITPSR
 AESSASSDGPVITPSWSPGSDVTLAEALVTNIEVINCSITEIETTTSSIPGASDIDLIPTEGVK
 ASSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATLSGA
 LVTVSRNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTSFAGSSASSYSPSEALKNFTPSETPT
 MDIATKGFPTSRDPLPSVPPTTNSRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTDVSAGENGG
 FLLLRVSPEDLTDPRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_152673.3](#), [NP_689886.3](#)

RefSeq Size: 6211 bp

RefSeq ORF: 1617 bp

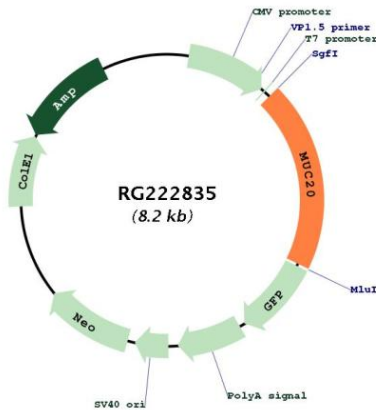
Locus ID: 200958

UniProt ID: [Q8N307](#)

Cytogenetics: 3q29

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 RG222835