

## Product datasheet for **RG238880**

### **MUC20 (NM\_020790) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_020790) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG238880 representing NM\_020790.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGTTGGGGTCTCTGGGAGC
TCTGCAGGCCCCAGCACCCGAGAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATG
ACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACACTGAGCGCTGAGACCTTTCTAGGGCCTCA
ACCCAGCCGGCCCGTTCCAGAAGCAGAGACCAGGGGATCCAAGAGAATTTCCCTGCAAGAGAGACC
AGGAGTTTCAAAAAACATCTCCAACCTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCGAGGGAGCTGGAATGACCACAGTTTACAGCCATCACAGGCAGTATCCCGAGGAAGCC
ATCTTTGACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACA
TTGGCTCACACCTCCACAGAAGTAAGGGCCTGTCTCAGAGAGCAGTGCCTTTCCGACGGCCCCCAT
CCAGTCATCACCCGTCACGGCCCTCAGAGAGCAGCGCCTTTCCGACGGCCCCCATCCAGTCATCACC
CGTACAGGGCCTCAGAGAGCAGCGCCTTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCC
TCAGAGAGCAGCGCCTTTCCGACGGCCCCCATCCAGTCATCACCCCTCATGGTCCCGGGATCTGAC
GTCACCTCTCTCGCTGAAGCCCTGGTGACTGTCACAAACATCGAGTTATTAATTGCAGCATCACAGAA
ATAGAAAACAACGACTTCCAGCATCCCTGGGGCCTCAGACACAGATCCCATCCCCACGGAAGGGGTGAAG
GCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTG
ACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTCACTGCACCTGATGCCACGATTGGG
ACCCCACTCCCCACCAACAGCACCATAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGA
GCTCTGGCCACAGGGAATCCCTTGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTAAA
GTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCCCTTGGG
AGCTCTGCTTCCCTACAGCCCTCGGAAGCCGCCCTCAAGAACCTTACCCCTTCAGAGACACTGACC
ACGGACATCGCAACCAAGGGGCCCTTCCCACAGCAGGGACCCTTCTCTTCTGCTCCCAACTACA
ACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAG
CCCCAACAGCCACGCCACGACTGCCCGGACGAGGCCGACCACAGACATGAGTGCAGGTGAAAATGGA
GGTTTCTCTCTGCGGCTGAGTGTGGCTTCCCAGAACCTCACTGACCCAGAGTGGCAGAAAAGG
CTGATGCAGCAGCTCCACGGAACTCCACGCCACGCGCCTCACTTCCAGGTCTCTTACTGCGTGTG
AGGAGAGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238880  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHALETQTLAETSSRAS
TPAGVPPEAETRGSKRISPAARETRSFKTSPNFMVLIATSVETSAAAGSPEGAGMTTVQITGSDPEEA
IFDTLCTDSSSEAKLTMIDILTLAHTSTEAKGLSSESSASSDGHVPVITPSRASESSASSDGHVPVIT
PSRASESSASSDGHVPVITPSRASESSASSDGHVPVITPSWSPGSDVTLAEALVTVTNIEVINC SITE
IETTTSSIPGASDTPDIPTEGVKASSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPDATIG
TPLPTNSTIEREVTAPGATTLGALATGNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTTSFAG
SSASSYSPSEAAKNFTPSETLTTDIATKGFPTSRDPLPSVPPTTTNSSRGTNSTLAKITTSKATTMK
PPTATPTTARTRPTTDMASAGENGFLRLSVASPEDLTDPRVAERLMQQLHRELHAHAPHFQVSLLRV
RRG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_020790

**ORF Size:** 1665 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).

**RefSeq:** [NM\\_020790.1](#), [NP\\_065841.1](#)

**RefSeq Size:** 2146 bp

**RefSeq ORF:** 1668 bp

**Locus ID:** 200958

**UniProt ID:** [Q8N307](#)

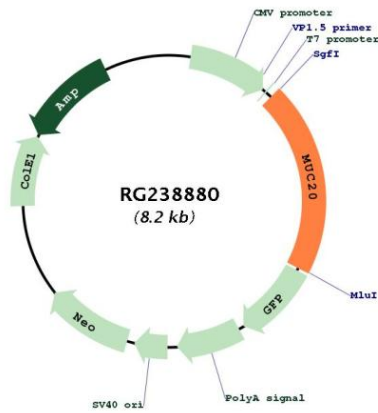
**Cytogenetics:** 3q29

**MW:** 57.2 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 RG238880