

Product datasheet for **SC317912**

MUC20 (NM_152673) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >SC317912 representing NM_152673.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGGTTGGGGTCTCTGGGAGC
TCTGCAGGCCCCAGCACCCGAGAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATG
ACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTTTCTAGGGCCTCA
ACCCAGCCGGCCCATTCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACC
AGGAGTTTCAAAAAACATCTCCAACCTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCGAGGGAGCTGGAATGACCACAGTTTACAGCCATCACAGGCAGTGATCCCGAGGAAGCC
ATCTTTGACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACA
TTGGCTCACACCTCCACAGAAGTAAGGGCCTGTCTCAGAGAGCAGTGCCTTTCCGACGGCCCCCAT
CCAGTCATACCCCGTCACGGCCCTCAGAGAGCAGCGCTTTCCGACGGCCCCCATCCAGTCATCACC
CCGTACGGCCCTCAGAGAGCAGCGCTTTCCGACGGCCCCCATCCAGTCATCACCCTCATGGTCC
CCGGGATCTGATGCTCACTCTCCTCGCTGAAGCCCTGGTACTGTACAAAACATCGAGTTATTAATTGC
AGCATCACAGAAATAGAAACAACAACCTCCAGCATCCCTGGGGCCTCAGACATAGATCTCATCCCCAG
GAAGGGGTGAAGGCCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACACAC
ATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTCAT
GCCACGGTTGGGACCCCACTCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACG
ACCCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCTGGAAGAAACCTCAGCCCTCTCTGTTGAG
ACACCAAGTTACGTCAAAGTCTCAGGAGCAGTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAA
ACAACCTCCTTTGCTGGGAGCTCTGCTTCTCCTACAGCCCTCGGAAGCCGCCCTCAAGAACTTACC
CCTTCAGAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTCCCACAGCAGGGACCTCTTCTCT
TCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCA
GCGAAGACCACGATGAAGCCCCAACAGCCACGCCACGACTGCCCGGACGAGGCCGACCACAGAGCTG
AGTGCAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAGTGTGGCTTCCCGGAAAGACCTCACTGAC
CCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGAACTCCACGCCACGCGCTCACTTCCAG
GTCTCCTTACTGCGTGTGAGGAGGCTAA
ACGGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_152673
- Insert Size:** 1617 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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](#)

RefSeq Size: 2098 bp

RefSeq ORF: 1617 bp

Locus ID: 200958

UniProt ID: [Q8N307](#)

Cytogenetics: 3q29

MW: 55.2 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]

Transcript Variant: This variant (2) lacks nine mucin tandem repeat sequences, and also has additional polymorphisms in the coding region and 3' UTR, compared to variant 1. The encoded isoform (b) is shorter than isoform a. This variant includes three mucin tandem repeats and is represented on the ALT_REF_LOCI_2 and ALT_REF_LOCI_4 alternate haplotypes of the reference genome.