

## Product datasheet for **SC337273**

### **MUC20 (NM\_001282506) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_001282506) 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:** >NCBI ORF sequence for NM\_001282506, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGTTGGGGTCTCTGGGAGCT
CTGCAGGCCCCAGCACCCGCAGAGCAGACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATGAC
TCTAGCACCGGGCCACGCGCTCTGAAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCTCAACC
CCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGA
GTTTCACAAAAACATCTCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGG
CAGCCCGAGGGAGCTGGAATGACCACAGTTTACAGCATCACAGGCAGTGATCCAGGGAAGCCATCTTT
GACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACATTGGCTC
ACACCTCCACAGAAGCTAAGGGCTGTCTCAGAGAGCAGCGCTCTTCCGACAGCCCCATCCAGTCAT
CACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCACCCCGTCACGG
GCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCA
GGCCTCTTCCGACGGCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGA
CGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCA
GTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCACCCCGT
CACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCACCCCGTCACGGGCTCAGA
GAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCT
TCCGACGGCTCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCC
ATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCATCCAGTCATCAC
CCCTCATGGTCCCGGGATCTGACGTCACTCTCTCGCTGAAGCCCTGGTGACTGTACAAACATCGAG
GTTATTAATTGCAGCATCAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCTCAGACACAGATC
TCATCCACGGAAGGGTGAAGGCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGC
AAAACCACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTACGT
GCACCTGATGCCACGGTTGGGACCCACTCCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCG
GGGCCACGACCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCCTTGAAGAAACCTCAGCCCTCTC
TGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGT
GGCAAAACAACCTCCTTTGCTGGGAGCTCTGCTTCTCTACAGCCCTCGGAAGCCGCCCTCAAGAACT
TCACCCCTTCCAGAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTCCCACCAGCAGGGACCTCT
TCCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAAAC
TCAGCGAAGACCAGATGAAGCCCCAACAGCCAGCCACGACTGCCCGGACGAGGCCGACCACAGAGC
TGAGTGCAGGTGAAAATGGAGGTTTCTCTCTCCTGCGGCTGAGTGTGGTTCCCCGGAAGACCTCACTGA
CCCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACGGGAACTCCACGCCACGCGCCTCACTTCCAG
GTCTCCTTACTGCGTGTGAGGAGGCTAA
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282506

**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).

**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\\_001282506.1](#), [NP\\_001269435.1](#)

**RefSeq Size:** 2611 bp

**RefSeq ORF:** 2130 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]

**Transcript Variant:** This variant (1) represents the longest transcript and encodes the longest isoform (a). This variant includes twelve mucin tandem repeats and is represented on the primary chromosome 3 assembly, and the ALT\_REF\_LOCI\_1, ALT\_REF\_LOCI\_3 and ALT\_REF\_LOCI\_5 alternate haplotypes of the reference genome. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.