

## Product datasheet for **RC238777**

### **MUC20 (NM\_001291833) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_001291833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MUC20
Synonyms:	MUC-20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238777 representing NM\_001291833  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTGCTGGGAGGTTGGGGTCTCTGGGAGCTCTG  
 CAGGCCCCAGCACCCGAGAGCAGACACTGCGATGACAACGAGACACAGAAAGTCCCGCTATGACTCT  
 AGCACCCGGCCACGCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTTTCTAGGGCTCAACCCCA  
 GCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGAGTT  
 TCACAAAAACATCTCCAACTTCATGGTCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAG  
 CCCCAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTATCCCAGGAAGCCATCTTTGAC  
 ACCCTTTGCACCGATGACATCTGAAGAGGCAAAGACTCACAAATGGACATATTGACATTGGCTCACA  
 CCTCCACAGAAGTAAGGGCCTGTCTCAGAGAGCAGCGCTCTCCGACGGCCCCATCCAGTCATCAC  
 CCCGTACGGGCCTCAGAGAGCAGCGCTCTCCGACGGCCCCATCCAGTCATCACCCCGTCACGGGCC  
 TCAGAGAGCAGCGCTCTCCGACGGCCCCATCCAGTCATCACCCCTCATGGTCCCCGGGATCTGACG  
 TCACTCTCCTCGCTGAAGCCCTGGTACTGTACAAAACATCGAGGTTATTAATTGCAGCATCACAGAAA  
 AACAACTCCAGCATCCCTGGGGCTCAGACATAGATCTCATCCCACGGAAGGGTGAAGGCCCTCGTCC  
 ACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAACACACATCACTGAGGTCACAGCCTCTG  
 CCGAGACCCTGTCCACAGCCGCCACACAGAGTCACTGCACCTCATGCCACGGTTGGGACCCCACTCCC  
 CACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCTCAGTGGAGCTCTGGTACA  
 GTTAGCAGGAATCCCCTGGAAGAACTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAG  
 GAGCAGTCCGGTCTCCATAGAGGCTGGTCAAGCAGTGGGCAAAACAATCCTTTGCTGGGAGCTGTC  
 TTCTCTACAGCCCTCGGAAGCCGCTCAAGAACTCACCCCTTCCAGAGACCCGACCATGGACATC  
 GCAACCAAGGGCCCTCCCCACAGCAGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCA  
 GCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAGCCCCAACAGC  
 CACGCCACGACTGCCCGGACGAGGCCGACCACAGAGTGAAGTGCAGGTGAAAATGGAGGTTTCTCTCT  
 CTGTGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGC  
 TCCACCGGAACCCACGCCACGCGCTCACTCCAGGTCTCTTACTGCGTGCAGGAGAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238777 representing NM\_001291833  
 Red=Cloning site Green=Tags(s)

MGCLWGLALPLFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHAALETQTLAETSSRASTP  
 AGPIPEAETRGAKRISPARETRSFKTSPNFMVLIATSVETSAAAGSPEGAGMTTVQITIGSDPEEAFD  
 TLCTDDISEEAKLTMDILTLAHTSTEAKGLSSESSASSDGHVPVITPSRASESSASSDGHVPVITPSRA  
 SESSASSDGHVPVITPSWSPGSDVTLAEALVTNIEVINCSITETTTSSIPGASDIDLIPTEGVKASS  
 TSDPPALPDSTEAKPHITEVTASAE TLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATTLGALVT  
 VSRNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTSFAGSSASSYSPSEAAKNFTPSETPTMDI  
 ATKGPFPSTRDPLPSVPTTTN SSRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTTDVSAGENGFL  
 LWLSVASPEDLTDPRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

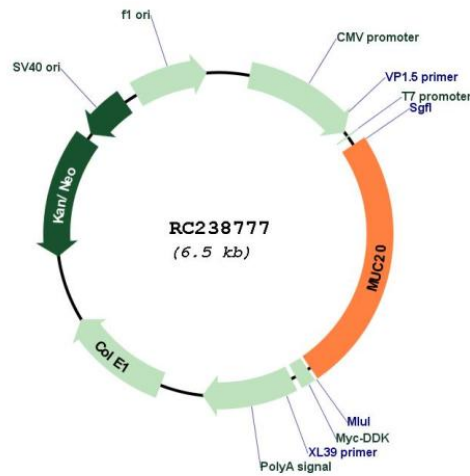
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001291833
<b>ORF Size:</b>	1605 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291833.1</a> , <a href="#">NP_001278762.1</a>
<b>RefSeq Size:</b>	2086 bp
<b>RefSeq ORF:</b>	1608 bp
<b>Locus ID:</b>	200958
<b>UniProt ID:</b>	<a href="#">Q8N307</a>
<b>Cytogenetics:</b>	3q29
<b>MW:</b>	55.3 kDa
<b>Gene Summary:</b>	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]