

## Product datasheet for **RC238880**

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

#### **Product data:**

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

>RC238880 representing NM\_020790  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGTCTCTGGGGTCTGGCTCTGCCCTTTTCTTCTCTGCTGGGAGTTGGGGTCTCTGGGAGCT  
 CTGCAGGCCCCAGCACCCGAGAGCAGACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATGAC  
 TCTAGCACCGGGCCACGCCGCTCTGAAACTCAAACACTGAGCGCTGAGACCTTCTTAGGGCTCAACC  
 CCAGCCGGCCCCGTTCCAGAAGCAGAGACCAGGGGATCCAAGAGAATTTCCCTGCAAGAGAGACCAGGA  
 GTTTCACAAAAACATCTCCCACTTCAATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTG  
 CAGCCCCGAGGGAGCTGGAATGACCACAGTTAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT  
 GACACCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACTCACAATGGACATATTGACATTGGCTC  
 ACACCTCCACAGAAGCTAAGGGCTGTCTCAGAGAGCAGTGCCCTTCCGACGGCCCCCATCCAGTCAT  
 CACCCCGTCACGGCCTCAGAGAGCAGCGCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGG  
 GCCTCAGAGAGCAGCGCCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCA  
 GCGCCTTCCGACGGCCCCCATCCAGTCATCACCCCTCATGGTCCCCGGGATCTGACGTCACCTCTCT  
 CGCTGAAGCCCTGGTGACTGTCAAAACATCGAGGTTATTAATTGCGACATCACAGAAATAGAAACAACG  
 ACTTCCAGCATCCCTGGGGCCTCAGACACAGATCCCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCT  
 CCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAACACACATCACTGAGGTACAGCCTCTGCCGA  
 GACCTGTCCACAGCCGGCACCACAGAGTCAGTGCACCTGATGCCACGATTGGGACCCCACTCCCCACC  
 AACAGCACCATAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTGGCCACAGGCA  
 ATCCCCGGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTACGTCAAAGTCTCAGGACAGGCA  
 GGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAACAACCTCCTTTGCTGGGAGCTCTGCTTCTCTAC  
 AGCCCCCTCGAAGCCGCCCTCAAGAACTTCAACCCCTCAGAGACTGACCACGGACATCGCAACCAAGG  
 GGCCCTTCCCCACCAGCAGGGACCCTTCTCTTGTCCCTCCAACACCAACAGCAGCCGAGGGAC  
 GAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCAACAGCCACGCCACG  
 ACTGCCCGGACGAGGCCGACCACAGACATGAGTGCAGGTGAAAATGGAGGTTTCTCTCTGCGGCTGA  
 GTGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGGA  
 ACTCCACGCCACGCGCCTCACTCCAGGTCTCTTACTGCGTGCAGGAGAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238880 representing NM\_020790  
 Red=Cloning site Green=Tags(s)

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHALETQTL SAETSSRAST  
 PAGPVPEAETRGSKRISPAARETRSF TKSPNFMVLIATSVETSAASGSPEGAGMTTVQITGSDPEEAI  
 DTLCTDSSSEEAKLTMDILTLAHTSTEAKGLSSESSASSDGPHPVITPSRAESSASSDGPHPVITPSR  
 AESSASSDGPHPVITPSRAESSASSDGPHPVITPSWSPGSDVLLAEALVTVNIEVINC SITEIETT  
 TSSIPGASDTP IPTEGVKASSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPDATIGTPLPT  
 NSTIEREVTAPGATTL SGALATGNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGTKTTSFAGSSASSY  
 SPSEAALKNFPTSETL TTDIATKGFPTSRDPLPSVPPTTTNSSRGTNSTLAKITTS AKTTMKPPTATPT  
 TARTRPTDMSAGENGFFLLRLSVASPEDL TDPRAERLMQQLHRELHAHAPHFQVSLLRVRRG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_020790
<b>ORF Size:</b>	1665 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_020790.1</a> , <a href="#">NP_065841.1</a>
<b>RefSeq Size:</b>	2146 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	200958
<b>UniProt ID:</b>	<a href="#">Q8N307</a>
<b>Cytogenetics:</b>	3q29
<b>MW:</b>	57.2 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]