

## Product datasheet for **RG219610**

### **MUC20 (NM\_001098516) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MUC20 (NM_001098516) 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)



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**ORF Nucleotide Sequence:**

>RG219610 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_001098516, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGACAACGGACGACACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCTCAACCCAGCCGGCCCATCCAGAAGCAGAGACCAGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGAGTTTCAAAAACATCTCCCAACTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAGCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCAGGGAAGCCATCTTTGACACCCCTTGCACCGATGACAGCTCTGAAGAGGC AAAGACTCACAAATGGACATATTGACATTGGCTCACACCTCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGCGCCTCTCCGACAGCCCCATCCAGTCATCACCCGTCACGGGCTCAGAGAGCAGCGCCTCTCCGACGGCCCCATCCAGTCATCACCCGTCACGGGCTCAGAGAGCAGCGCCTCTCCGACGGCCCCA TCCAGTCATCACCCGTCATGGTCCCGGGATCTGACGTCACTCTCTCGCTGAAGCCCTGGTGACTGTC ACAAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCTCAGACAGATCTCATCCCCACGGAAGGGTGAAGGCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAACACACATCACTGAGGTCACAGCCTCTGCCGAGACCTGTCCACAGCCGACCCACAGAGTCACTGCACCTGATGCCACGGTTGGGACCCCACTCCCACTAACAGCGCCACAGAAAGAGAAG TGACAGCACCCGGGGCCACGACCCTCAGTGAGCTCTGGTCACAGTTAGCAGGAATCCCCTTGAAGAAAC CTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCT GGGTCAGCAGTGGGCAAAACAACCTCTTTGCTGGGAGCTCTGCTTCTCTACAGCCCTCGGAAGCCG CCCTCAAGAACTCACCCCTCAGAGACACCGACCATGGACATCGCAACCAAGGGGCCCTCCCCACCAG CAGGGACCCTCTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAAACAGCACCTTAGCC AAGATCACAACCTCAGCGAAGACCAGATGAAGCCCCAACAGCCACGCCACGACTGCCGGACGAGGC CGACCACAGACGTGAGTGAGGTGAAAATGGAGGTTTCTCTCTGCGGCTGAGTGTGGCTTCCCGGA AGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGAACTCCACGCCACGCG CCTCACTTCCAGGTCTCCTTACTGCGTGTCAAGGAGGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG219610 representing NM\_001098516  
 Red=Cloning site Green=Tags(s)

MTTDDTEVPAMTLAPGHALETQTLAETSSRASTPAGPIPEAETRGAKRISPAETRSFTKTSPNFMVL IATSVETSAAAGSPEGAGMTTVQITIGSDPREIFDTLCTDSSSEEAKLTMDILTLAHTSTEAKLSSE SSASSDSPHPVITPSRASESSASDGPVITPSRASESSASDGPVITPSWSPGSDVTLAEALVTV TNIEVINCSITEIETTTSSIPGASDTDLIPTEGVKASSTSDPPALPDSTEAKPHITEVTAETLSTAGT TESAAPDATVGTPLPTNSATEREVTAPGATTLGALVTVSRNPLEETSALSVETPSYVKVSGAAPVIEA GSAVGKTTSFAGSSASSYSPSEALKNFPTSETPTMDIATKGPFPTRDPLPSVPPTTTNSRGTNSTLA KITTSAKTTMKPPTATPTTARTRPTDVSAGENGGFLLRLSVASPEDLTDPRVAERLMQQLHRELHAHA PHFQVSLLRVRRG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

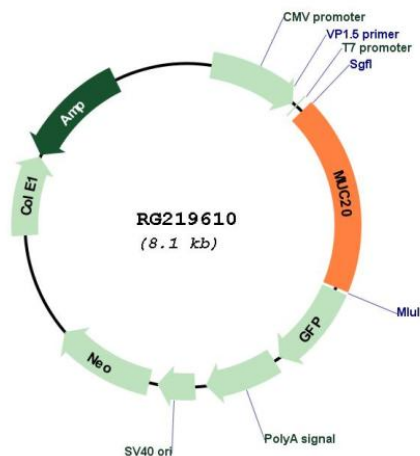
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001098516  
 ORF Size: 1509 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_001098516.1</a> , <a href="#">NP_001091986.1</a>
<b>RefSeq Size:</b>	6462 bp
<b>RefSeq ORF:</b>	1511 bp
<b>Locus ID:</b>	200958
<b>Cytogenetics:</b>	3q29
<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]