

Product datasheet for **RG206662**

MUC7 (NM_152291) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MUC7 (NM_152291) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MUC7
Synonyms: MG2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206662 representing NM_152291
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACTCTGCCGCTGTTTGTGTGCATCTGTGCACTGAGTGCTTGCTTCTCGTTCAGTGAAGGTCGAG
AAAGGGATCATGAACTACGTACAGAAAGGCATCATACCAATCACCCAAATCTCACTTTGAATTACCACA
TTATCCTGGACTGCTAGCTCACCAGAAGCCGTTTCATTAGAAAGTCCTATAAATGTCTGCACAAACGCTGT
AGGCTAAGCTTCCACCTTACCTAATAACCCCCCAAATTCCTCAATCCTCACCAGCCACCTAAACATC
CAGATAAAAATAGCAGTGTGGTCAACCCTACCTTAGTGGCTACAACCCAAATTCATCTGTGACTTTCCC
ATCAGTTCCACCAAAATTAACCTTCCAAATGTGACTTTTCTTCCCAGAATGCCACCACCATATCT
TCAAGAGAAAATGTTAACACAAGCTCTTCTGTAGCTACATTAGCACCAGTGAATTCCTCAGCTCCACAAG
ACACCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCATCTTCTCAGCTCCACCAGA
GACCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCATCTTCTCAGCTCCACCAGAG
ACCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCATCTTCTCAGCTCCACCAGAGA
CCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACTATCTTCTCAGCTCCACCAGAGAC
CACAGCTGTCCCACCCACACCTTCTGCAACTACCCAGCTCCACTATCTTCTCAGCTCCACCAGAGACC
ACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCGTCTTCCCAGCTCCACAAGAGACCA
CAGCTGCCCAATTACCACACCTAATTCTTCCCCTACTCTTGACCTGACACTTCTGAAACTTCAGC
TGACCCACACACCAGACTATTACTTCCGTCACACTCAAACCTACTACTAAACAACCAACTTCAGCT
CCTGGCCAAAATAAAATTTCTCGATTTCTTTATATGAAGAATCTACTAAACAGAATTATTGACGACA
TGGTGGAGCAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206662 representing NM_152291
 Red=Cloning site Green=Tags(s)

MKTLPLFVCICALSACFSFSEGRERDHELRRHHHHQSPKSHFELPHYPGLLAHQKPFIRKSYKCLHKRC
 RPKLPSPNPPKFPNPHQPPKHPDKNSSVVNPTLVATTQIPSVTFPSASTKITTLPNVTFLPQNATTIS
 SRENVNTSSSVATLAPVNSPAPQDTTAAAPPTPSATTPAPPSSAPPETTAAPPTPSATTQAPPSSAPPE
 TTAAPPTPPATTPAPPSSAPPETTAAPPTPSATTPAPLSSAPPETTAVPPTPSATTLDPSSASAPPET
 TAAPPTPSATTPAPPSSAPQETTAAPITTPNSSPTTLAPDTSETSAAPTHQTITSVTTQTITTKQPTSA
 PGQNKISRFLLYMKNLLNRIIDDMVEQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152291

ORF Size: 1131 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152291.1](#), [NP_689504.1](#)

RefSeq Size: 2365 bp

RefSeq ORF: 1134 bp

Locus ID: 4589

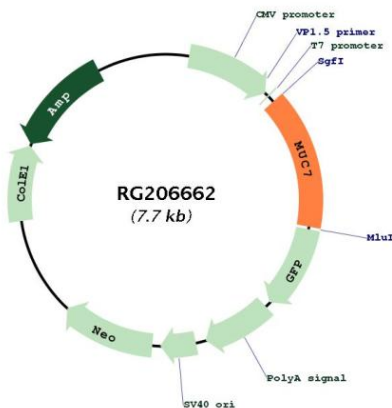
UniProt ID: [Q8TAX7](#)

Cytogenetics: 4q13.3

Protein Families: Secreted Protein

Gene Summary: This gene encodes a small salivary mucin, which is thought to play a role in facilitating the clearance of bacteria in the oral cavity and to aid in mastication, speech, and swallowing. The central domain of this glycoprotein contains tandem repeats, each composed of 23 amino acids. This antimicrobial protein has antibacterial and antifungal activity. The most common allele contains 6 repeats, and some alleles may be associated with susceptibility to asthma. Alternatively spliced transcript variants with different 5' UTR, but encoding the same protein, have been found for this gene. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RG206662