

Product datasheet for **SC325019**

MUC7 (NM_001145006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC7 (NM_001145006) Human Untagged Clone
Tag:	Tag Free
Symbol:	MUC7
Synonyms:	MG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001145006 edited
 CATCCTCAAAGGATTGGCTAAAAGCAAGCAACTGGATTGAACACCCTAAGAAGAAAGATT
 CACACTGCACCAGGAGACATCAGAAAGAATGAAAACCTCTGCCGCTGTTTGTGTCATCTG
 TGCACTGAGTGCCTTGCTTCTCGTTCAAGTGAAGGTGAGAAAGGGATCATGAACTACGTCA
 CAGAAGGCATCATACCAATCACCCAAATCTCACTTTGAATTACCACATTATCCTGGACT
 GCTAGCTCACCAGAAGCCGTTTATTAGAAAGTCTATAAATGTCTGCACAACCGTGTAG
 GCCTAAGCTTCCACCTTACCTAATAACCCCCCAAATTCCTAAATCTCACCAGCCACC
 TAAACATCCAGATAAAAAATAGCAGTGTGGTCAACCCCTACCTTAGTGGCTACAACCCAAAT
 TCCATCTGTGACTTTCCCATCAGCTTCCACCAAATTAATACCCTTCCAATGTGACTTT
 TCTTCCCCAGAATGCCACCACCATATCTTCAAGAGAAAATGTTAACACAAGCTCTTCTGT
 AGCTACATTAGCACCAGTGAATTCCTCAGCTCCACAAGACACCACAGCTGCCCCACCCAC
 ACCTTCTGCAACTACACCAGCTCCACCATCTTCTCAGCTCCACCAGAGACCACAGCTGC
 CCCACCCACACCTTCTGCAACTACACAAGCTCCACCATCTTCTCAGCTCCACCAGAGAC
 CACAGCTGCCCCACCCACACCTCTGCAACTACACCAGCTCCACCATCTTCTCAGCTCC
 ACCAGAGACCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACTATCTTC
 CTAGCTCCACCAGAGACCACAGCTGTCCACCCACACCTTCTGCAACTACCCTAGACCC
 ATCATCCGCCTCAGCTCCACCAGAGACCACAGCTGCCCCACCCACACCTTCTGCAACTAC
 ACCAGCTCCACCGTCTTCCCCAGCTCCACAAGAGACCACAGCTGCCCCAATTACCACACC
 TAATCTTCCCCAACTACTCTTGACCTGACACTTCTGAAACTTCAGCTGCACCCACACA
 CCAGACTATTACTCGGTCACTACTCAAATACTACTAAACAACCAACTTCAGCTCC
 TGGCCAAAATAAAATTTCTCGATTTCTTTTATATGAAGAATCTACTAAACAGAATTAT
 TGACGACATGGTGGAGCAATAGTATATTGTATGTTGTAAGTGTCTGTCAATTTACAAGA
 TGTGATTCATGAGTGCAGAATACCACCTTTCTTTTAGCACCAATCCCAACATGAAATTA
 TATTACTCAGATTTAAAGCACTATCATTAACTTTCAATCTAATTATTACCACCACAAG
 ACCTATTAACAAGACAAAATGCCTCTATCCACAAGCCAGATGCAGGTCTGGGGTTCAA
 ATAACCTTTGGATCCTACAGAGATAGCCTACTGAGGGCAAAGAAAGTCTTAGATAAAG
 AGAGAATATTGTATGGGCCATCAACCATTTACTTTTCCCTGAATGTTAGAAACTACAAAA
 CCCTACTTGTACCCCATCAAATCCCACCTGAACCATCTAATCTATAAACATAAAG
 GGGTAAAATTGGAATCTCCAGATGAACAAGACATCTAAATATCTGTAGATAGAAACAT
 TTATCTATCTAAATATATTGATAGACCTGTCATTGTATTGATTAATGACAAAACCTTTA
 GATAATTATCTTCCATTTTAAATAAAATTTTATTTTCACAATATGAGCCAAGAAAGAGGA
 AAGTTGATTTGAAGTGAAGGATTAGAAGTGAATGACAATAAAGTCTGGCAGCCAAGCACGA
 ACCAAGACTGGCACTATTTTTCTTAGTGTATATAATTGTTTAAACTGCAAGGTTGACATT
 TATTGTGTGTGCTAAGTTAATTTTCGATCTAATGTACCTGATTCTAGCCTCTGTGAACA
 ACAAGAATATGTTTGTGTATGTTCAATGGTGCTTATAATTTTCACTATCAATTCATTT
 AATTCACATAAATTCATGTGAATGTATTCAACAATGGAATATTTTCTAAAACATTTAG
 TATACATTTGAATGTATTTTAAACCATGCCAACTACTGCTTTAATGTCAAGTTTGCAGA
 ATTGTCTCTGAAAATAAAACCCCTGACTTTAGTTGTAAAACAATAAAAGTTAGCTACTTG
 GTATACGGAGATGTTAATTTGGGATATGGAGGCATTTTTATCTTCTGTCACTACTACTTA
 AAACCTGATGATTATGTTAGATTTTTTGTGCTAACTAATAAAGATTTCAAATGGCAATTT
 AAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001145006
Insert Size: 2400 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145006.1](#), [NP_001138478.1](#)

RefSeq Size: 2565 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]

Transcript Variant: This variant (1) represents the longest transcript. Transcript variants 1, 2 and 3 encode the same protein.