

Product datasheet for SC124023

MUC7 (NM_152291) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC7 (NM_152291) Human Untagged Clone
Tag:	Tag Free
Symbol:	MUC7
Synonyms:	MG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124023 sequence for NM_152291 edited (data generated by NextGen Sequencing)

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ATGAAAACCTCTGCCGCTGTTTGTGTGCATCTGTGCACTGAGTGCTTGCTTCTCGTTCAGT
GAAGGTCGAGAAAGGGATCATGAACTACGTACAGAAAGGCATCATCACCAATCACCCAAA
TCTCACTTTGAATTACCACATTATCCTGGACTGCTAGCTCACCAGAAGCCGTTTCATTAGA
AAGTCCTATAAATGTCTGCACAAACGCTGTAGGCCTAAGCTTCCACCTTCACCTAATAAC
CCCCCAAATTCCAAATCCTCACCAGCCACCTAAACATCCAGATAAAAAATAGCAGTGTG
GTCAACCCCTACCTTAGTGGCTACAACCCAAATTCATCTGTGACTTTCCCATCAGCTTCC
ACCAAAATTAACCTTCCAAATGTGACTTTTCTTCCCAGAATGCCACCACCATATCT
TCAAGAGAAAATGTTAACACAAGCTCTTCTGTAGCTACATTAGCACCAGTGAATTCCTCA
GCTCCACAAGACACCACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCA
TCTTCTCAGCTCCACCAGAGACCACAGCTGCCCCACCCACACCTTCTGCAACTACACAA
GCTCCACCATCTTCTCAGCTCCACCAGAGACCACAGCTGCCCCACCCACACCTCCTGCA
ACTACACCAGCTCCACCATCTTCTCAGCTCCACCAGAGACCACAGCTGCCCCACCCACA
CCTTCTGCAACTACACCAGCTCCACTATCTTCTCAGCTCCACCAGAGACCACAGCTGTC
CCACCCACACCTTCTGCAACTACCCTAGACCCATCATCCGCCTCAGCTCCACCAGAGACC
ACAGCTGCCCCACCCACACCTTCTGCAACTACACCAGCTCCACCGTCTTCCCAGCTCCA
CAAGAGACCACAGCTGCCCAATTACCACACCTAATTCTTCCCACACTCTTTGCACCT
GACACTTCTGAACTTCAGCTGCACCCACACACCAGACTATTACTTCGGTCACTACTCAA
ACTACTACTAAACAACCAACTTCAGCTCCTGGCCAAAATAAAATTTCTCGATTTCTT
TTATATATGAAGAATCTACTAAACAGAATTATTGACGACATGGTGGAGCAATAG

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Clone variation with respect to NM_152291.2
1001 c=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152291 unedited TTTGTAATACGACTCACTATAGGGCGGCCGGAATCCCAGGATCATCCTCAAAGGATTG GCTAAAAGCAAGCAACTGGATTGAACACCCTAAGAAGAAAGATTCACACTGCACCAGGAG ACATCAGAAAGAAATGAAAACCTGCGCGTGTGGTGTGCATCTGTGCACTGAGTGCTTGC TTCTCGTTCAGTGAAGGTCGAGAAAGGGATCATGAACTACGTACAGAAAGGCATCATCAC CAATCACCCAAATCTCACTTTGAATTACCACATTATCCTGGACTGCTAGCTCACCAGAAG CCGTTTCATTAGAAAGTCCATAAAATGTCTGCACAAACGCTGTAGGCCTAAGCTTCCACCT TCACCTAATAACCCCCCAAATCCCAAATCCTCACCAGCCACCTAAACATCCAGATAAA AATAGCAGTGTGGTCAACCCTACCTTAGTGGCTACAACCCAAATCCATCTGTGACTTTC CCATCAGTTCCACCAAATTAATACTACCCTTCCAAATGTGACTTTTCTTCCCAGAAATGCC ACCACCATATCTCAAGAGAAAATGTTAACACAAGCTCTTCTGTAGCTACATTAGCACCA GTGAATCCCCAGCTCCACAAGACACCACAGCTGCCCCACCCACCTTCTGCAACTACA CCAGCTCCACCATCTTCTCAGCTCCACCAGAGACCACAGCTGCCCCACCCACACCTTCT GCAACTACACAAGCTCCACCATCTTCTCAGCTC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_152291 unedited TGCAACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCT GTTCAGGAAACAGCTATGACCGCGGCCCTTTTTTTTTTTTTTTTTTTTTTTGGGAAAT TGCCATTTGAAATCTTTATTAGTTAGCAAAAAAATCTAACATAATCATCAGATTTTAAG TAGTAGTGACAGAAGATAAAAAATGCCTCCATATCCCAAATTAACATCTCCGTATACCAAG TAGCTAACTTTTATTGTTTTACAATAAGTCAGGGGTTTTAATTTTCAGAGACAATTCT GCAAACCTTGACATTAAGCAGTAGTTGGCATGGTTAAAATACATTCAAATGTATACTA AATGTTTTAGAAAATATCCATTGTTGAATACATTTACATGGAATTTATGTGAATTAAT TGAATTGATAGTAAATATTATAAGCACCATGTGAACATACACAAACATATTCTTGTGT TCACAGAGGCTAGAATCAGGTACATTAGATCGAAATTAACCTTAGACACAACCCAAATAAAT GTCAACCTTGAGTTAAACAATTATATACACTAAAGAAAAAATAGTGGCCAAGTCTTGG GTTCGTGGCTTTGGGCTGCCAAACTTTTATTGGTCATTTCACTTTCTAAATCCCTCACT TTTCAAATCACTTTTCTCTCTTTCTTGGGCTCATATTTGTGAAAATAAAAAATTTATT TAAAATGGGGAGAATAATTATCTAAAGGGGTTTGGTCTTAATCAATACCATGACCGGG G
Restriction Sites:	Please inquire
ACCN:	NM_152291
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_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]
Transcript Variant: This variant (3) represents the shortest transcript and has a different 5' UTR compared to transcript variant 1. Transcript variants 1, 2 and 3 encode the same protein.