

Product datasheet for MR231986

Muc4 (NM_080457) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Muc4 (NM_080457) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Muc4
Synonyms:	4933405I11Rik; Asgp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>NM_080457 ORF sequence, MR231986 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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Protein Sequence:

>Peptide sequence encoded by MR231986
 Blue=ORF Red=Cloning site Green=Tag(s)

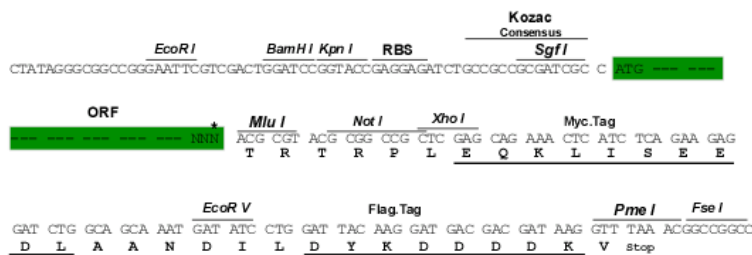
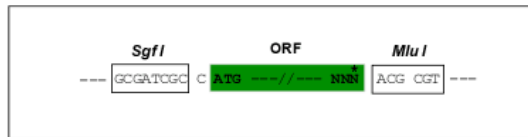
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QHMNDLNLQYPPSINCSKIQAYKGQTVTTEITSNSKDATLSLSKKCSGFKLFENGLQWTPTSPEACT
 LEILARDVRTNLVWLQPKTVACFCSKEEQCLYNETSKEGNSLEVTSCKCDGDTFGRLCERSKDPCE
 PCFPNVNCPGKGCACPNTTGDGRHCAALEDSCPNRSCPMNYCYNNGHCDISEAPGCQPTCTCPPAF
 TDNRCFLAGNSFTPTISMELPLRTIVLSLREDENASAADVNASVANILENLDMAFFSNLSVELIRTSP
 GAQPSSKSIHHWVTSHFYKRRGPLIHYLNNQLIGAVMEAFLLQARQERQKRSGEARKDVHFFPISRA
 DVQDQMALNLSMLEEYFTCDGYKGYHLVYSPQDGVTCVSPCSEGYCHNGGQCKHLPDGPQCSCASFTIY
 SSSGEHCEHLSVKLGA FYGILFGTLGALLLLGILAFMIFHFCGCSKNKFSYPLDSEL
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
 Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_080457

ORF Size:

11970 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 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.

RefSeq Size: 12452 bp

RefSeq ORF: 11973 bp

Locus ID: 140474

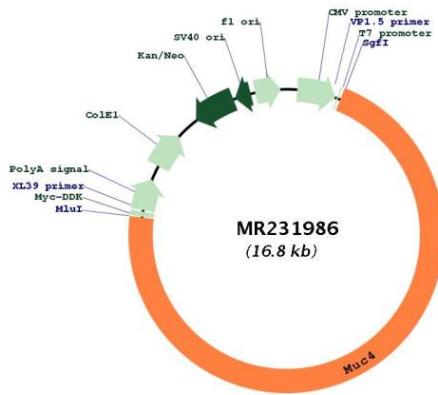
UniProt ID: [E9Q7Q0](#)

Cytogenetics: 16 B3

MW: 422.1 kDa

Gene Summary: The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface. A large 5' exon encodes at least 15 tandem repeats of 124-126 amino acids. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR231986