

Product datasheet for MC229775

Muc4 (NM_080457) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Muc4 (NM_080457) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Muc4
Synonyms:	4933405I11Rik; Aasp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229775 representing NM_080457 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGGCCTCACTGGAGAGTTCCTGGCTGTGTCTGAGCTGCCTGTATTCTTGCCTCCTTGTCTAC
CTGATGCTCTAGCAACAACATCAACACAGACCCCATGTCCTTTCCAGCAGCACCAGAACATCCCAAT
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CATCCTCCAATCAAAGTACCTCAGTAGACACAGGACAAACAACATCAGTAACAGCTCAAGTTCTACACC
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TCTGCGGCTGCTCCAAGAACAAGTCTCCTACCCTTTGGACTCAGAATTGTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_080457

Insert Size:

10413 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.

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).

OTI Annotation:

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_080457.3](#), [NP_536705.3](#)

RefSeq Size: 11277 bp

RefSeq ORF: 11973 bp

Locus ID: 140474

UniProt ID: [E9Q7Q0](#)

Cytogenetics: 16 B3

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]