

Product datasheet for **RG216276**

MUC4 (NM_004532) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MUC4 (NM_004532) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MUC4
Synonyms: ASGP; HSA276359; MUC-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216276 representing NM_004532
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGGGGCACGCTGGAGGAGGGTCCCTGGGTGTCCCTGAGCTGCCTGTGTCTCTGCCTCCTCCGC
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CCCATCCCCATCCTGCCTGAGAGAGGAGTTCCCTCTTCCCTATGGGGCAGACGCCGGGACCTGGAGT
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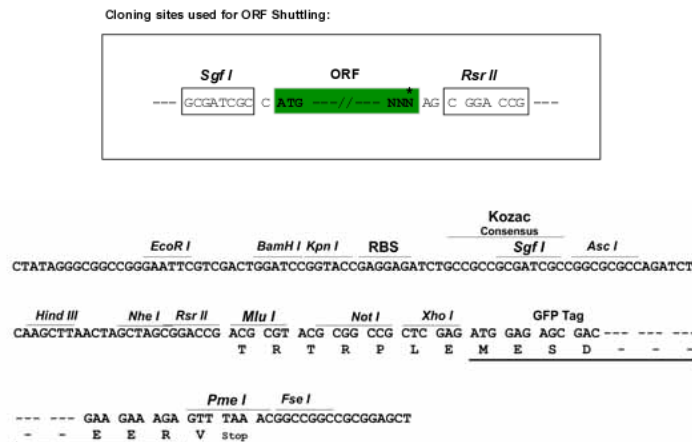
AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216276 representing NM_004532
 Red=Cloning site Green=Tags(s)

MKGARWRRVPWVSL SCLCLCLLPHVPGMTT PSLKTDGGRRTATSPPTTSQTIIISTIPSTAMHTRSTAA
 PIPILPERGVSLFPYGADAGDLEFVRRTVDFTSPLFKPATGFPLGSSLRDSL YFTDNGQIIFPESDYQIF
 SYPNPLPTGFTGRDPVALVAPFWDADFSTGRGTTFFYQEYETFFYGEHSLLVQQAESWIRKITTNGGYKAR
 WALKVTVVNAHAYPAQWTLGSNTYQAILSTDGSRSYALFLYQSGMQWDVAQRSGKPVLMGFSSGDGYFE
 NSPLMSQPVWERYRDRFLNSNSGLQGLQFYRLHREERP NYRLECLQWLK SQPRWPSWGWNQVSCPCSWQ
 QGRRDLRFQPVSIGRWGLGSRQLCSFTSWRGGVCCSYGPWGEFREGWHVQRPWQLAQELEPQSWCCRWD
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 DSAAPASGSP IQHWMVISEFYRPRGPVIDFLNNQLLAAYVEAFLYHVPRRSEEP RNDVVFQPI SGEDVR
 DVTALNVSTL KAYFRCDGYKGYDLVYSPQSGFTCVSPCSRGYCDHGGQCQHLPSGPRCSCVFSIYTAWG
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SGPTRRRLE - GFP Tag - V

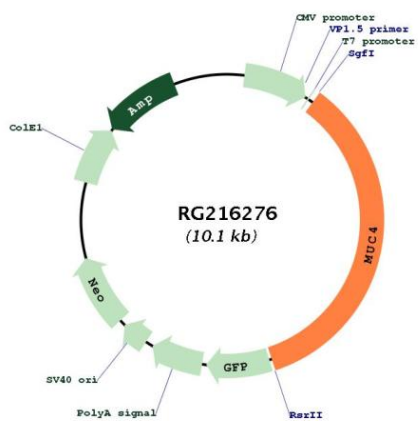
Restriction Sites: SgfI-RsrII
 Cloning Scheme:



ACCN: NM_004532
 ORF Size: 3528 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:	<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_004532.2 , NP_004523.2
RefSeq Size:	4411 bp
RefSeq ORF:	3531 bp
Locus ID:	4585
UniProt ID:	Q99102
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Transmembrane
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, although secreted isoforms may exist. At least two dozen transcript variants of this gene have been found, although for many of them the full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216276