

Product datasheet for **RR205960**

Muc1 (NM_012602) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Muc1 (NM_012602) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Muc1
Synonyms:	MGC188069
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR205960 representing NM_012602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCCCGGCATACGGGTTCTCTCTCTCTGCTGCTACTTCTAGCAAGCCTAAAAGTCCGCAGTGGTG
 CCTCCTCTCAACCACCAGCCTTCCAGGGGACTCCTTCAGCACTGCAGTCCCAGTGGTGCTCTTCCTC
 AGCCACCAGCCCTCCAGTGGACTCCACCACCTCTCCAGTTCATAGTAGCACCTCGTTCACAGCCACCAGC
 CCTCCAGGAGACTCCACCAGCACTGCAGTCTCAGTGGTACTCAGATCCAGCCACCAGCCCTCCAGGGG
 ACTCCTCCAGCACTGCAGTCCCCAATGGTGCCTTCTCCTCAGCCACCAGCCCTCCAGTGGACTCCACCAC
 CTCCCCAGTTCATAGTAGCACCTCGTTCACAGCCACCAGCTCTCCAGGGGACTCCACCAGCACTGCAGTC
 ACCAGTGGCACCTCTTCTCAGCCACCAGCCCTCCAGAGGACTCTCCAGCACTGCAGTACCAGTGGCA
 CCTCGTCCCAGCCACCAGCCCTCCAGGGGACTCCTCCAGCACTGCAGTACCAGTGGCACCTCGTCCCC
 AGCCACCAGCCCTATATTGGACTCCTCCAGCACTGCAGTCTCAGTGGCACCTCGTCCCCAGCCACCAGC
 CCTCCAGAGGACTCCACCAGCACTGCAGTACCAGTGGCACCTCGTCCCCAGCCACCAGCCCTCCAGAGG
 ACTCCACCAGCACTGCAGTACCAGTGGCACCTCGTCCCCAGCCACCAGCCCTATATTGGACTCCTCCAG
 CACTGCAATCCACAGTGGCACCTCGTCCCCAGCCACCAGCCCTCCAGGGGACTCCTCCAGCACTGCAGTC
 CTCAGCGGTGCTTCCACCCAAACCACCAAGGCTGTATCAGACTTAGTAGCACTCCAACCACAATGGCA
 TCATGGTCCCAACTACCTGGTCTGCATTGAGCTCAGCCACCAGTCCGGTGTACAGTGGTTCCTCAGCTAC
 AACTAATAGCTCTGAATCAGACATGGCCACCCTCCAGTGTACAGTGGCACCCATTCTCTTCTACCAGC
 GCTACGTACAGTATCACCAGCAGCCACAATGGCTCCTTGGTGCAGCACTCCAGTCCGCAATGACACTCAGTCTCAGT
 CCACCAGTCCAGCCCATGATACCTCTCGGGTGGCCACAACCTCCAGTCCGCAATGACACTCAGTCTCAGT
 TCCAAGTCAGCAGCCATCTCTCCACCATCCCCGCCATCTCCAGCCACAGTACTGTTAGCAGCAGCTCT
 TACTACAGCACAGCGGTCTTCCCTACCTTCTCCAGTAACAGCTCACCCAGTTGTCTGTCCGGGTCTCCT
 TCTTCTCGTTGTCTTTTTACATTCGGAACCACCCATTTAATTCTTCCCTGGAAGACCCAGCTCCCGCTA
 CTACCAAGAACTGAAGAGGAACATTTCCGGATTGTTTCTGCAGGTTTTTAACGGAGACTTCTGGGGGTC
 TCTACTATCAAGTTCAGGTCAGGCTCGGTGGTGGTAGCATCGACTGTGATTTTCCGGGAGGGCACTTTCA
 GTGCCTCTGAAGTGAAGTACAGCTCGTACAACATAAGAAGGAGGAGCTGACTATAATCTGACTATCTC
 GGAAGTCAATGTGAATGAGATGCAGTTCCTTCTCTGCCCAGTCTTGGCCTGGGGTACCAGTTGGGGC
 ATTGCCCTGCTGGTACTGGTCTGTATTTGGTGGCTTTGGTCATCGTCTATCTCATTGCCCTGGCATTGT
 GCCAGTGGCGCAGAAAGAGCTATGGGCAGCTGGACCTCTTCCAACCCGGGACACCTACCATCCTATGAG
 TGAATATCCTACCTACCACACTCACGGACGCTATGTGCCCCCTGCCACTACCAACCGTAGCCCTATGAA
 GAGGTTTCGACAGGCAATGGCAGTAGCGGTCTCTTTACACCAACCCGGCTGTGGCAACCACTTCGGCCA
 ACTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205960 representing NM_012602
 Red=Cloning site Green=Tags(s)

MTPGIRVPLLLLLLNLASLKVRSGASSSTSLPGDSFSTAVPSGASSSATSPVVDSTTSPVHSSTSF PATS
 PPGDSTSTAVLSGSDPATSPPGDSSSTAVPNGASSSATSPVVDSTTSPVHSSTSF PATSSPGDSTSTAV
 TSGTSSSATSPPEDSSSTAVTSGTSSPATSPPGDSSSTAVTSGTSSPATSPILDSSSTAVLSGTSSPAT
 PPEDSTSTAVTSGTSSPATSPPEDSTSTAVTSGTSSPATSPILDSSSTAVLSGTSSPATSPPGDSSSTAV
 LSGASTQTTKAVSDLASTPTHNGIMVPTTWSALSSATSPVYSGSSATTNSESDMATTPVYSGTFFSSTT
 ATSAITPDHNGSLVVRTTSSVLGLATSPAHDTSAVATTPVRNDTQSSVPSQQPISPTIPAISSHSTVSSSS
 YYSTAVFPTFSSNSSLQSVGVFFSLSFYIRNHPFNSSLEDPSSRYQELKRNISGLFLQVFNDFLGV
 STIKFRSGSVVASTVIFREGTFSASEVKSQVQHKKEAADYNL TISEVNVNEMQFPSSAQSWPGVPGWG
 IALLVLCILVALVIVYLIALALCQCRKSYGQLDLFPTRDTYHPMSEYPTYHTHGRYVPPATTKRSPYE
 EVSTGNGSSGLSYTNPAVATTSANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

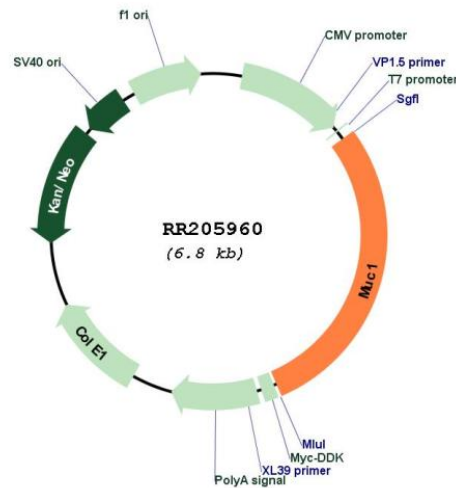
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012602

ORF Size: 1965 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:

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_012602.1](#), [NP_036734.1](#)

RefSeq Size:	2328 bp
RefSeq ORF:	1968 bp
Locus ID:	24571
Cytogenetics:	2q34
MW:	66.1 kDa
Gene Summary:	an integral membrane protein whose reduction is necessary for embryo implantation [RGD, Feb 2006]