

## Product datasheet for **RC231491**

### **MUC22 (NM\_001198815) Human Tagged ORF Clone**

#### Product data:

|                           |                        |
|---------------------------|------------------------|
| Product Type:             | Expression Plasmids    |
| Tag:                      | Myc-DDK                |
| Symbol:                   | MUC22                  |
| Synonyms:                 | PBMUCL1                |
| Mammalian Cell Selection: | Neomycin               |
| Vector:                   | pCMV6-Entry (PS100001) |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |

**ORF Nucleotide Sequence:** >RC231491 representing NM\_001198815  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGAAGAGGAAATATCTCTCTGCTTTCTGGTTCCTGTGGCTGCTTCTCTTTGGACTTCTGGGACCCA  
GCTCTGAGAATACCAAGCCTTCACAAAAGGCTCCGACACCACACAGCCTCCATCAGAGCTCTGAGAC  
CACCATGGCCTCCACCATGGCCTCTACTTCGGCCTTAACACAGGCTCTAAGATCACCACAGACTCTACC  
ACAGGCTCTGAGACAACCTCAGCCTCCACCATGGCTTCTACTGCAGCCTTCACCACAGGCTCTGAGACCA  
ACAGGCTCCACACAGACTCAGGGACTACTATAGCCTCCACTAGGACCTTCACCACAGGCTCTGAGAC  
AACCACAGGCTCCACTGCAGGCTCTGAAACTATCGTGGCCTCCACACAGTCTCTGGGACCAACAAC  
TTTACTATAGCCTCCACTACAGTCCCTGAGACTACCATGGCCTCCAGCACAACCTCCACTGCAGGCTCTG  
AGAAAACGATGGCCTCTCCATAATTTCTGAGACCACCATGGCCTCCACACAGGCTCTGAGACTGCCAC  
AGTCTCTACCACAGGCTCTGAGACCACCACCTCCACTGCAAGCTCTGAGGCCACTAAAGTCTCTACC  
ACAGGCTCTGAAACCAACACAGCATCTACTGCAGGTTCTGAGACCACCACTACCTCCACCTCCATGGCAG  
GCTCTGAGGCCACCACAACCTCACTGCAGACTCCAAGGTGATCACGGCATCCAGCATGAGCTCTGAGAC  
CACTGTGGCCCCGCTGCAGGCTCTAACACCACACAGCCTCTACCACAGGCTCTGAGACCACTACAATC  
CTGATTAAAGCCTCTGAGACCACCACAGCCTCTACAGCAGGTTCTGAGACCACCAACCCCTCCCCACAG  
GCTCTCAGACCACCATAGTCTCTATTTAGGTTCTGAGATCACCACCACCTCTACGGCAGGATCCGAGAA  
CACCACAGTCTCTAGTGCAGGCTCTGGGACCACCACAGCTTCTATGGCAGGCTCTGAGACCACCTCTCC  
ACTGCAGGCTCTGAGACCACTACAGTCTCTATCAGGCACTGAGACCACCATGGTCTCTGCCATGGGCT  
CAGAGACCACCACAACTCTACTACAAGCTCTGAGACCACCGTCACCTCTACTGCAGGCTCTGAGACCAC  
CACAGTCTCCACCGTGGGCTCTGAGACCACCACAGCCTATACTGCAGATTCTGAGACCACTGCAGCCTCT  
ACCACAGGCTCTGAGATGACCACAGTCTTCACTGCAGGCTCGGAAACCATCACACCTCTACTGCAGGCT  
CAGAGACCACCACAGTCTCTACTGCAGGCTCTGAGACCACTACAGTCTCCACCAAGGCTCTGAGACCAC  
AACAGCCTCTACTGCACATTCTGAGACGACTGCAGCCTCCACCATGGGCTCTGAGACCACCAAGTCTCA  
ACTGCAGGCTCTGAGACCACAGTCTCCACTGCAGGCTCTGAGACCACCTGCAGCCTCTACTGAAGATTCTG



AAACCAACACAGCATTTACTGAAGATTCTAAGACTACCACAGCCTCTACTACAGGGTTTGAGACAACCGC  
AGCCTCTACTACAGGCTCTGAGCCTACCATGGCATCCACCATGGGCTCTGAGACCACTATGGCCTCTACC  
ATAGGCCCTGAGACCACCAAGGTCTCCACTGCAAGCTCTGAGGTGACCACAGTCTTTGCTGCAGGCTCTG  
AGACAATCAGAGCCTCTACCGTAGGCTCTGAGACCACCACAGTCTCTACCACAGGCTCTGAGACCACCAC  
AGCCTCCATCATGGGCTCTGAGACCAGCACAGATTCTACCACAGGCTCTGAGACCACCACAGCCTCTACT  
GAAGGCTCTGAGACCACCACAGCTTCCACTGAAGGCTCTGAGGCCACTACAGTCTCCACCACAGGCTCTG  
AGACCACTACAGTTTCTATCACAGACTCAGAGACCACCACCACCTGTACTGAAGGCTCTGAGATGACTGC  
AGTCTCCACCACAGTCTTTGAGACCACTACAGCCTCTACTGAAGGCTCTGAGATCACAATAGCCTCTACT  
TCAGACTCTGAGACCACCACAGCTTCTACTGAAGGTTCTGAGACCACTACAGTCACTACCGCAGGCTCTG  
AGACCAAAACAGCCTATACTACAGGCTCTGAGACCACCACAGCCTCTAATACAGGCTTGAGACCACCAC  
AGTCTTTACCATAGGCTCTGACACCACCACAGCCTCTACTGAAGGCTCTGAGACCACTGCAGTCTCTGCC  
ACAGGCTCTGAGATGACCACAGTCTCTACTGAAGGCTCTGAGAACACTACAGTCTCCACCACAGGCTCTG  
AGACCACTACAGTTTCCACCACAGGCTTGAGACCACCACCACCTTCCACTGAAGGCTCTGAGATGACTAC  
AGTCTCCACCACAGGTGCTGAGACCACCACAGACTCTACTGAAGGCTCTGGGACCACTGCAGCCTCCACT  
GCAGGCTCTGAGACCACCACAGTCTCTACTGCAGATTCTGAGAACACCACAGCATCTACTGCAGATTCTG  
AGACCACCTCAGCCTCTACTACAGGCTCTGAGACCACCACAGCCTCTACTACAAGCTCTGAGACCACCAC  
AGCCTCTACTGAAGGCTCTGAGACCACTACAGTCTCCACCACAGACTCTGAGACCACCATGGTCTCTACC  
ACAGGCTCTGAGAGGACCATCACCTCTACTGAAGGCTCTGAGACCACTACAGTATCTGCCACAGGCTCTG  
AGACCAAGTCTCTACTGAAGGCTCTGGGACCACTACAGTCTCCATCACAGGCTCTGAGACCACTAAAGT  
TTCTACCACAGTTTCCAGAGACCACCACCACCTTCTACTGAAGGCTCTGAGATTACTACAGCCTCCATCACA  
GGCTCTGAGACCACCACAGCCTCTACTGAAGGCTCCGAGACCACCACAGCCTCTACTGAAGGCTCCGAGA  
CCACCTCAGCCTCTACTACAGGCTCTGAGACCACCACAGCCTCTACTACAAGCTCTGAGACCACCATGGC  
ATCCATCATGGGCTCTGAGACCACTATGGCCTCTACCATAGGCTCTGAGACCACCAAGGTCTCCACTGCA  
AGCTCTAAAATGACCACAGTCTTCTACTGAAACTCTGAGACCACCATAGCCTCTACCACAGCCTCTGAGA  
CCACCACAGTCTCCACTGCAGGCTCTGAGACCATCCCAGCCTCTACAGCAGGCTCTGAGACCACCACCAC  
CACCTCTACTGAAGGCTCTGAGACCACTACAGCCTCTACTGAAGGCTCTGAGACCACCACAGCCTCTACT  
GAAAGCTCTGAGACCACTACAGCCACTACCATAGGCTCTGAGACCACCACAGCCTCTACTGAAGGCTCTG  
AGACTACCACCACCTCTACTGAAGGCTCTGAGACCACCACAGCCTCTACTGAAGGCTCTGAGATCACTAC  
AGTTTCTACCACAGGCTCTGAGACCACCACAGCCTCTACTGAAGGCTCTGAGACCACCACAGCCTCTACT  
GAAGGCTCTGAGCTCACTACAGTTTCTACCACAGGCTCTGAGACCATCACAGTCTCTGCTGAAGGCTCTG  
AGACCACTACAGTCACTACTATGGGCTCTGAGACCACCACGGCCTCTACTGCAGGCTCAGAGACCACCAC  
AGTCTCTACTGCAGGCTCTGAGACCACCACAGCCTCTATTGAAGGCTCTGAGACCACTACAGTCTCCTCC  
ACAGGCTCTGAGACCACCACAGTCTCTACCACAGGCTGAGACTACCATCACCTCTACTGAAGGTTCTAG  
AGACCACTACAGTCACTACTGCAGGTTCTGAGACCACAGCAGTCTATACCACAGGCTCTGAGACTACCAC  
CACCTCTACTGAAGGCTCTGAGACAACCACAGTCTCTACCACGGCTCTGAGACCACCACAGCCTCTACC  
GGCACTTTGGAGACCACCACAGTCTCCACCTCAGGCTCTGGGACCACCACAGCCTCTACCGCAGGCTCTG  
AGACCACAACAGTCTATATCACAGGCTCTAAGACTACCACCGCCTCTACTGAAGGCTCTGAGGCCACTAC  
AGTTTCTACCCTAGCTCTGAGACCACCACAGCCTCTACCACAGGCTCTGAGATGACTACAGTCTTTACC  
ACAGTCTCTGAGACCACCACAGTCTCTACCATAGGCTCTGAGGCCACCACATCCTCTGCTGCAGGCTCTG  
AGGCCACCACCACCTCTACTGAAGGCTCTGAGACCACCACAGCCTCCACTGCAGGCTCTGAGACCACCAC  
AGCCTCCACTGCAGGCTCTGAGACCACCACAGCCTCCACTTCAGGCTCTGAGACCAACACAGCCTGTACC  
ACAGGTTCTGAGACCTCCACACCTCCAGTGCAGGCTCTGAGACCAACACTGCCTTCATCATAGGCTCTG  
AGAGCACCATAGCTTCCACTGCAAGCTTGAGGCCACTGCACTTCCCTCACAGGCTCTGAGACCACCAC  
AGTCTCTATCACAGCTTCTGGGGCCACTGCAGCCTCCACCCTGTCTTCCACCACGTTTGTACTCACC  
AAGGCCACTGACGTTTCTATCCAGCCCATACCAACACACCTATGTGAGGCACCAGAACCACTGGAACCA  
GACTCACTGCCTCCAGCTCTGTCCATAGGCCCTGGAATGGACTTACGGCCTCTGCTGCCAGCCATAC  
TGTGCCAGGAATAGTCTTAAACACCTCTGGCCTGGGTACATCCACTATGGGAGCATCATCTACCACCTCA  
GCCCACGGCTCAGGACCACCACAGGATCCACCGTGAGCCAACAGCAGCACCTTCCAGGAAACAGGCC  
CGGTGTCCATGGGCACAAACACAGTTAGCATGAGCCACACACCCACAAACGTGATCAAACCAAGTGGATA  
TTTACAGCCTGGGCTATCATCTCATTTCCCTGGCTGCAGTTGTGGCTGCTGTTGGATTGTGAGTAGGA  
CTGAGTTTTTGTCTGAGAACTTTTCTTCCCCTGAGATATTGTGGTATTTATACCCCATGGCCACA  
GCCACAGCCTTGGTCTGGACCTGAACTTGGGCTGGGCTCTGGGACATTCCACAGCCTGGGAAATGCACT  
GGTTTATGGAGGAGAACTTGAATGGGACATGGAGGAACACACGGCTTTGGATATGGAGTGGGCCATGGA  
CTGAGCCACATCCATGGAGATGGCTACGGAGTGAATCATGGCGGGCATTATGGACATGGAGGAGGCCAC

ACGCGTAGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231491 representing NM\_001198815

Red=Cloning site Green=Tags(s)

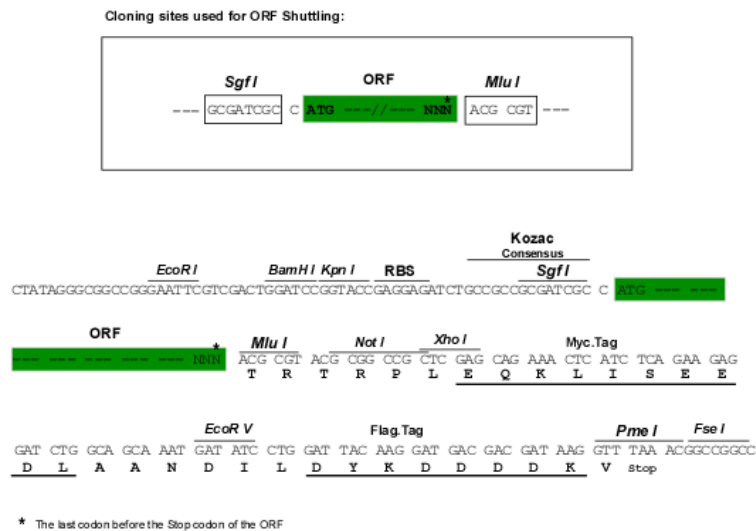
MRRGNISPAFWFLWLLLFGLLGPSSSENTAFTKGSDDTTASITGSETTMASTMASTSALTGSKITTDST  
TGSETTSASTMASTAAFTTGSETNTASTDSTGTTIASTRFTTGSDTTTGSTAGSETIVASTTVSGTTTT  
FTIASTTVPETTMASSTTSTAGSEKTMASIISETTMASTTGSETATVSTTGSETTTTTSTASSEATKVST  
TGSETTTASTAGSETTTTTSTAGSEATTTSTADSKVITASMSSETTVAPAAGSNNTTASTTGSETTTI  
LIKASETTTASTAGSETTTPSPTGSQTTIVSISGEITTTSTAGSENTTVSSAGSGTTTASAGSETTVS  
TAGSETTTVSITGTETTMVSAMGSETTTNSTTSSETTVTSTAGSETTVSTVGSETTTAYTADSETTAAS  
TTGSEMTTVFTAGSETIIPSTAGSETTVSTAGSETTVSTTGSETTTASTAHSETTAASTMGSETTKVS  
TAGSETTVSTAGSETTAASTEDSETNTAFTEDSKTTTASTTGSETTAASTTGSEPTMASTMGSETTMAST  
IGPETTKVSTASSEVTVFAAGSETIRASTVGSETTVSTTGSETTTASIMGSETSTDSTTGSETTTAST  
EGSETTTASTEGSEATTVSTTGSETTVSITDSETTTCTEGSEMTAVSTTVFETTTASTEGSEITIAST  
SDSETTTASTEGSETTVTTAGSETKTAYTTGSETTTASNTGLETTTVFTIGSDTTTASTEGSETTAVSA  
TGSEMTTVSTEGSENTTVSTTGSETTVSTTGLETTTSTEGSEMTTVSTGAETTTDSTEGSGTTAAST  
AGSETTVSTADSENTTASTADSETTSASTTGSETTTASTTSSETTTASTEGSETTVSTTDSETTMVST  
TGSEMTITSTEGSETTVSATGSETTVSTEGSGTTTVSITGSETTKVSTTGSETTTSTEGSEITTASIT  
GSETTTASTEGSETTTASTEGSETTSASTTGSETTTASTTSSETTMASIMGSETTMASTIGSETTKVSTA  
SSKMTTVFTENSETTIASTTASETTTVSTAGSETIPASTAGSETTTTTSTEGSETTTASTEGSETTTAST  
ESSETTTATTIGSETTTASTEGSETTTSTEGSETTTASTEGSEITTVSTTGSETTTASTEGSETTTAST  
EGSELTTVSTTGSETITVSAEGSETTVTMTGSETTTASTAGSETTVSTAGSETTTASIEGSETTVSS  
TGSETTVSTTGSETTITSTEGSETTVTTAGSETTAVYTTGSETTTSTEGSETTVSTTGSETTTAST  
ADLETTTVSTSGSGTTTASTAGSETTVYITGSKTTTASTEGSEATTVSTTSSETTTASTTGSEMTTVFT  
TVSETTVSTIGSEATSSAAGSEATTTSTEGSETTTASTAGSETTTASTAGSETTTASTSGSETNTACT  
TGSETSTPSSAGSETNTAFIIGSESTIASLEPTATSLTGSETTVSITASGATAASTTVSSTTFVL  
KATDVSIQPIITNTPMSGTRTTGTRLTASSSVTMAPGMDFTASAASHTVPGIVLNTSGLGTSTMGASSTS  
AHGVRTTTTGSTREPTSSTFQETGPVSMGNTVMSHTPTNVIKPSGYLQPWAILISLAAVVAAGLSVG  
LSFCLRNLFPLRYCGIYYPHGHSHSLGLDLNLGLSGTFHSLGNALVHGGELEMGHGGTHGFGYGVGHG  
LSHIHGDGYGVNHGGHYHGGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

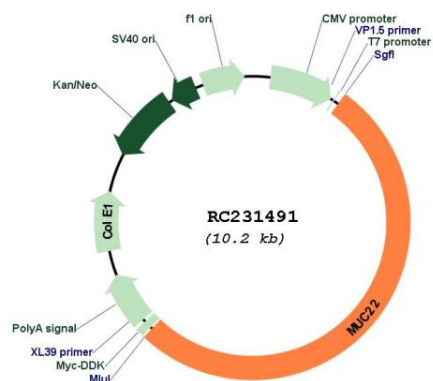
SgfI-MluI

Cloning Scheme:



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_001198815                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ORF Size:</b>              | 5319 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_001198815.1</a> , <a href="#">NP_001185744.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq ORF:</b>            | 5322 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 100507679                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID:</b>            | <a href="#">E2RYF6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 6p21.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW:</b>                    | 173.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Product images:



Circular map for RC231491