

Product datasheet for **RC224663**

MUC13 (NM_033049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC13 (NM_033049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MUC13
Synonyms:	DRCC1; MUC-13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224663 representing NM_033049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGCCATCATTTCATCTTACTCTTCTTCTGCTCTCCTTTCTGTAACACAGCCACCAACCAAGGCAACT
 CAGCTGATGCTGTAACAACCACAGAACTGCGACTAGTGGTCTACAGTAGCTGCAGCTGATACCACTGA
 AACTAATTTCCCTGAAACTGCTAGCACCACAGCAAATACACCTTTCCCAACAGCTACTTCACCTGCTCCC
 CCCATAATTAGTACACATAGTTCCTCCACAATTCCTACACCTGCTCCCCCATAATTAGTACACATAGTT
 CCTCCACAATTCCTATACCTACTGCTGCAGACAGTGAGTCAACCACAAATGTAATTCATTAGCTACCTC
 TGACATAATCACCGTTCATCTCCAAATGATGGATTAATCACAATGGTTCCTTCTGAAACACAAAGTAAC
 AATGAAATGTCCCCACCACAGAAGACAATCAATCATCAGGGCCTCCACTGGCACCCTTTATTGGAGA
 CCAGCACCTAAACAGCACAGGTCAGCAATCCTTGCCAAGATGATCCCTGTCAGATAATTGTTATG
 TGTTAAGCTGCATAATACAAGTTTTTGCCTGTGTTTAGAAGGGTATTACTACAACCTTCTACATGTAAG
 AAAGGAAAGGATTCCTGGGAAGATTCAGTGACAGTATCAGAAACATTTGACCAGAAGAGAAACATT
 CCATGGCCTATCAAGACTTGCATAGTGAATTAAGTCTGTTTAAAGATGATTTGGCAGATCTGTTTA
 TGGACAGACTGTAATCTTACTGTAAGCACATCTCTGTCACCAAGATCTGAAATGCGTGCTGATGACAAG
 TTTGTTAATGTAACAATAGTAACAATTTGGCAGAAACCAAGTGACAAATGAGAAGACTGTGACTGAGA
 AAATTAATAAAGCAATTAGAAGTAGTCAAGCAACTTTCTAAACTATGATTTGACCCTTCGGTGTGATTA
 TTATGGCTGTAAACAGACTGCGGATGACTGCCTCAATGGTTTAGCATGCGATTGCAAATCTGACCTGCAA
 AGGCCTAACCCACAGAGCCCTTCTGCGTTGCTCCAGTCTCAAGTGCCTGATGCCTGCAACGCACAGC
 ACAAGCAATGCTTAATAAAGAAGAGTGGTGGGCCCTGAGTGTGCGTGGTGGCCGGCTACCAGGAAGA
 TGCTAATGGGAAGTGCCTAAAGTGTGATTTGGCTACAGTGACTCGACTGTAAGGACAAATTCAGCTG
 ATCCTCACTATTGTTGGCACCATCGCTGGCATTGTCTCAGCATGATAATTGCATTGATTGTACACAG
 CAAGATCAATAACAAAACGAAGCATATTGAAGAAGAGAAGTATTGACGAAGACTTTCAAATCTAAA
 ACTGCGGTGACAGGCTTACCAATCTTGGAGCAGAAGGGAGCGTCTTCCCTAAGGTCAGGATAACGGCC
 TCCAGAGACAGCCAGATGCAAAATCCCTATTCAAGACACAGCAGCATGCCCGCCCTGACTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224663 representing NM_033049
 Red=Cloning site Green=Tags(s)

MKAIHLLTLLALLSVNTATNQNSADAVTTTETATSGPTVAAADTTETNFPETASTTANTPFPTATSPAP
 PIIISTHSSSTIPTPAPPIIISTHSSSTIPIPTAADSESTTNVNSLATSIIITASSPNDGLITMVPSETQSN
 NEMSPPTEDNQSSGPPTGTALLESTLNSTGSPNPCQDDPCADNSLCVKLHNTSFCLCLEGYYSSTCK
 KGKVFPGKISVTVSETFDPEEKHSMAYQDLHSEITSLFKDVFVGTQVYVYQTVILTVSTSLSPRSEMRADDK
 FVNVTIVTILAETTSNEKTVTEKINKAIRSSSNFLNYDLTLRCDYYGNCQTADDCLNGLACDCKSDLQ
 RPNPQSPFCVASSLKCPDACNAQHKLQCLIKKSGGAPEACVPGYQEDANGNCQKCAFYSGLDCKDKFQL
 ILTIVGTIAGIVILSMIIALIVTARSNNKTKHIEEENLIDEDFQNLKLRSTGFTNLGAEGSVFPKVRITA
 SRDSQMNPYSRHSSMPRPDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1042_d06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033049

ORF Size: 1533 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: [NM_033049.2, NP_149038.2](#)

RefSeq Size: 2961 bp

RefSeq ORF: 1539 bp

Locus ID: 56667

UniProt ID: [Q9H3R2](#)

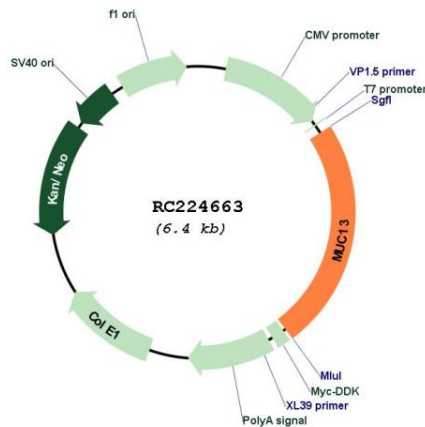
Cytogenetics: 3q21.2

Protein Families: Transmembrane

MW: 54.3 kDa

Gene Summary: Epithelial mucins, such as MUC13, are a family of secreted and cell surface glycoproteins expressed by ductal and glandular epithelial tissues (Williams et al., 2001 [PubMed 11278439]).[supplied by OMIM, Jul 2008]

Product images:



Circular map for RC224663