

Product datasheet for **RG224663**

MUC13 (NM_033049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUC13 (NM_033049) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUC13
Synonyms:	DRCC1; MUC-13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224663 representing NM_033049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGCCATCATTTCATCTTACTCTTCTTCTGCTCTCCTTTCTGTAACACAGCCACCAACCAAGGCAACT
 CAGCTGATGCTGTAACAACCACAGAACTGCGACTAGTGGTCTACAGTAGCTGCAGCTGATACCACTGA
 AACTAATTTCCCTGAAACTGCTAGCACACAGCAAATACACCTTTCCCAACAGCTACTTCACCTGCTCCC
 CCCATAATTAGTACACATAGTTCCTCCACAATTCCTACACCTGCTCCCCCATAATTAGTACACATAGTT
 CCTCCACAATTCCTATACCTACTGCTGCAGACAGTGAGTCAACCACAAATGTAATTCATTAGCTACCTC
 TGACATAATCACCGCTTCATCTCCAAATGATGGATTAATCACAATGGTTCCTTCTGAAACACAAAGTAAC
 AATGAAATGTCCCCACCACAGAAGACAATCAATCATCAGGGCCTCCACTGGCACCGCTTTATTGGAGA
 CCAGCACCTAAACAGCACAGGTCAGCAATCCTTGCCAAGATGATCCCTGTGCAGATAATTTCGTTATG
 TGTTAAGCTGCATAATACAAGTTTTTGCCTGTGTTTAGAAGGGTATTACTACAACCTTCTACATGTAAG
 AAAGGAAAGGTATTCCTGGGAAGATTTCAAGTACAGTATCAGAAACATTTGACCAGAAGAGAAACATT
 CCATGGCCTATCAAGACTTGCATAGTGAATTAAGTCTGTTTAAAGATGATTTGGCAGATCTGTTTA
 TGGACAGACTGTAATCTTACTGTAAGCACATCTCTGTCACCAAGATCTGAAATGCGTGCTGATGACAAG
 TTTGTTAATGTAACAATAGTAACAATTTTGGCAGAAACCAAGTGACAATGAGAAGACTGTGACTGAGA
 AAATTAATAAAGCAATTAGAAGTAGCTCAAGCACTTTCTAAACTATGATTTGACCCTTCGGTGTGATTA
 TTATGGCTGTAAACAGACTGCGGATGACTGCCTCAATGGTTTAGCATGCGATTGCAAATCTGACCTGCAA
 AGGCCTAACCCACAGAGCCCTTCTGCGTTGCTCCAGTCTCAAGTGCCTGATGCCTGCAACGCACAGC
 ACAAGCAATGCTTAATAAAGAAGAGTGGTGGGCCCTGAGTGTGCGTGGTGGCCCGCTACCAGGAAGA
 TGCTAATGGGAAGTGCCTAAAGTGTGATTTGGCTACAGTGGACTCGACTGTAAGGACAAATTTTCAGCTG
 ATCCTCACTATTGTTGGCACCATCGCTGGCATTGTCTCAGCATGATAATTGATTGATTGTACACAG
 CAAGATCAATAACAAAACGAAGCATATTGAAGAAGAGAAGTATTGACGAAGACTTTCAAATCTAAA
 ACTGCGGTGACAGGCTTACCAATCTTGGAGCAGAAGGGAGCGTCTTTCCTAAGGTCAGGATAACGGCC
 TCCAGAGACAGCCAGATGCAAAATCCCTATTCAAGACACAGCAGCATGCCCGCCCTGACTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224663 representing NM_033049
 Red=Cloning site Green=Tags(s)

MKAIHLTLLALLSVNTATNQGNSADAVTTTETATSGPTVAAADTTETNFPETASTTANTPFPTATSPAP
 PIISTHSSSTIPTAPPPIISTHSSSTIPIPTAADSESTTNVNSLATSIIITASSPNDGLITMVPSETQSN
 NEMSPPTEDNQSSGPPTGTALLESTLNSTGPNPCQDDPCADNSLCVKLHNTSFCLCLEGYYNSSTCK
 KGKVFPGKISVTVSETFDPEEKHSMAYQDLHSEITSLFKDVFGTSVYQGTVILTVSTLSRSEMRAADDK
 FVNVTIVTILAETTSNEKTVTEKINKAIRSSSNFLNYDLTLRCDYYGNCQTADDCLNGLACDCKSDLQ
 RPNPQSPFCVASSLKCPDACNAQHKLQCLIKKSGGAPEACVPGYQEDANGNCQKCAFYSGLDCKDKFQL
 ILTIVGTIAGIVILSMIIALIVTARSNNKTKHIEEENLIDEDFQNLKLRSTGFTNLGAEGSVFPKVRITA
 SRDSQMNPYSRHSSMPRPDY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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).

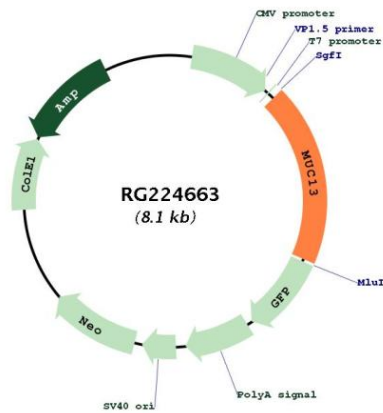
Reconstitution Method:

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
 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 RG224663