

Product datasheet for RC233513

EMA (MUC1) (NM_001204289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMA (MUC1) (NM_001204289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMA
Synonyms:	ADMCKD; ADMCKD1; ADTKD2; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233513 representing NM_001204289 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACCGGGCACCCAGTCTCCTTTCTTCTGCTGCTGCTCCTCACAGTGCTTACAGCTACCACAGCCC
CTAAACCCGCAACAGTTGTTACGGGTTCTGGTCATGCAAGCTCTACCCCAGGTGGAGAAAAGGAGACTTC
GGCTACCCAGAGAAGTTCAGTGCCAGCTCTACTGAGAAGAATGCTATTTATAAACAAGGGGTTTTCTG
GGCCTCTCCAATATTAAGTTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCCTTCCGAGAAGGTA
CCATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAACGGAAGCAGCCTCTCGATATAACCT
GACGATCTCAGACGTGAGCGTGTGATGTGCCATTTCTTTCTCTGCCAGTCTGGGGCTGGGGTGCCA
GGCTGGGGCATCGCGCTGCTGGTCTGGTCTGTGTTCTGGTTGCGCTGGCATTGTCTATCTCATTGCCT
TGCTGTCTGTCAGTGCCGCCGAAAGAAGTACGGGCAGCTGGACATCTTCCAGCCCGGGATACCTACCA
TCCATGAGCGAGTACCCACCTACCACACCCATGGGCGCTATGTGCCCCCTAGCAGTACCGATCGTAGC
CCCTATGAGAAGGTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCTTACACAAACCCAGCAGTGGCAGCCA
CTTCTGCCAATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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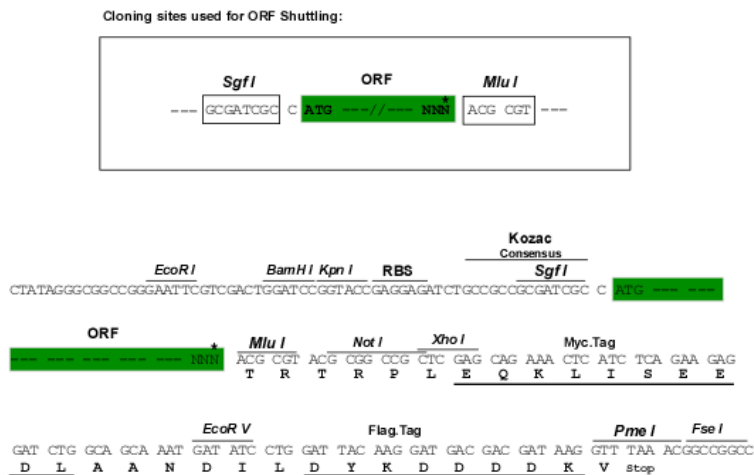
Protein Sequence: >RC233513 representing NM_001204289
Red=Cloning site Green=Tags(s)

MTPGTQSPFFLLLLLTVLTATTAPKPATVVTGSGHASSTPGGEKETSATQRSSVPSSTEKNAIYKQGGFL
 GLSNIKFRPGSVVVQLTLAFREGTINVHDVETQFNQYKTEAASRYNLTISDVSVDVPPFSAQSGAGVP
 GWGIALLVLCVLAIAIVYLIALAVCQRRKNYGQLDIFPARDTYHPMSEYPTYHTHGRYVPPSSDTRS
 PYEKVSAGNGGSSLSYTNPAVAATSANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001204289

ORF Size: 714 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_001204289.2](#)

RefSeq Size: 1115 bp

RefSeq ORF: 717 bp

Locus ID: 4582

UniProt ID: [P15941](#)

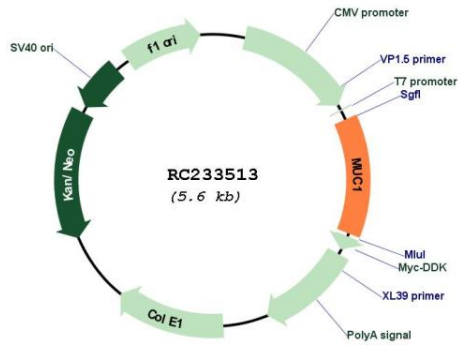
Cytogenetics: 1q22

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 25.7 kDa

Gene Summary: This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC233513