

## Product datasheet for **RC234207**

### EMA (MUC1) (NM\_001204285) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EMA (MUC1) (NM_001204285) 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)



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**ORF Nucleotide Sequence:**

>RC234207 representing NM\_001204285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACACCGGGCACCCAGTCTCCTTTCTCCTGCTGCTGCTCCTCACAGTGCTTACAGTTGTTACGGGTT  
 CTGGTCATGCAAGCTCTACCCCAGGTGGAGAAAAGGAGACTTCGGCTACCCAGAGAAGTTAGTGCCAG  
 CTCTACTGAGAAGAATGCTGTGAGTATGACCAGCAGCGTACTCTCCAGCCACAGCCCCGGTTCAGGCTCC  
 TCCACCACTCAGGGACAGGATGTCACTCTGGCCCCGGCCACGGAACCAGCTTCAGGTTACAGCTGCCACCT  
 GGGGACAGGATGTCACTCGGTCCAGTACCAGGCCAGCCCTGGGCTCCACCACCCCGCCAGCCACGA  
 TGTCACTCAGCCCCGACAACAAGCCAGCCCCGGGCTCCACCGCCCCCAGCCATGGTGTCACTCGCCCCGACA  
 GCCCCGGACACCAGGCCGCCCGGGCTCCACCGCCCCCAGCCATGGTGTCACTCGCCCCGACA  
 ACAGGCCCGCCTTGGGCTCCACCGCCCCCAGTCCACAATGTCACTCGGCTCAGGCTCTGCATCAGG  
 CTCAGTTCTACTCTGGTGCACAACGGCACCTCTGCCAGGGCTACCACAACCCAGCCAGCAAGAGCACT  
 CCATTCTCAATCCCAGCCACCACTCTGATACTCTACCACCTTCCAGCCATAGCACCAAGACTGATG  
 CCAGTAGCACTACCATAGCACGGTACCTCCTCTCACCTCCTCCAATCACAGCACTTCTCCCCAGTTGTC  
 TACTGGGGTCTCTTTCTTTTCTGTCTTTTACATTTCAAACCTCCAGTTTAAATCCTCTCTGGAAGAT  
 CCCAGCACCGACTACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTGCAGATTTATAACAAG  
 GGGGTTTTCTGGGCTCTCCAATATTAAGTTACAGCCAGGATCTGTGGTGGTACAATTGACTCTGGCCTT  
 CCGAGAAGGTACCATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAACGGAAGCAGCCTCT  
 CGATAAACCTGACGATCTCAGACGTACGCGTGTGATGTGCCATTTCTTTCTCTGCCAGTCTGGGG  
 CTGGGGTGCCAGGCTGGGGCATCGCGCTGCTGGTGTGTGTTCTGGTTGCGCTGGCCATTGTCTA  
 TCTCATTGCCCTTGGCTGTCTGTCACTGCCGCGAAAGAAGTACGGGCAGCTGGACATCTTTCCAGCCCGG  
 GATACCTACCATCCTATGAGCGAGTACCCACCTACCACACCCATGGGCGCTATGTGCCCCCTAGCAGTA  
 CCGATCGTAGCCCTATGAGAAGGTTTCTGCAGGTAATGGTGGCAGCAGCCTCTTTACACAAACCCAGC  
 AGTGGCAGCCACTTCTGCCAACTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234207 representing NM\_001204285  
 Red=Cloning site Green=Tags(s)

MTPGTQSPFFLLLLLVLTVVTSVSGHASTPGEKETSATQRSSVPSSTEKNAVSMSSVLSHSPGSGS  
 STTQGDVTLAPATEPASGSAATWGQDVTVPVTRPALGSTPPAHDVTSAPDNKPAPGSTAPPAHGVT  
 APDTRPAPGSTAPPAHGVTAPDNRPALGSTAPPVHNVTASGSASGSASTLVHNGTSARATTTASKST  
 PFSIPSHSDPTTLASHSTKTDASSTHHSTVPLTSSNHSTSPQLSTGVSFFFLSFHISNLQFNSSLED  
 PSTDYYQELQRDISEMFLQIYKQGGFLGLSNIKFRPGSVVVQLTAFREGTINVHDVETQFNQYKTEAAS  
 RYNLTISDVSVDVPPFSAQSGAGVPGWGIALLVLCVLVALIVYLIALAVCQRRKNYQLDIFPAR  
 DTYHPMSEYPTYHTHGRVYPPSSDRSPYEKVSAGNGGSSLSYTNPAAVATSANL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

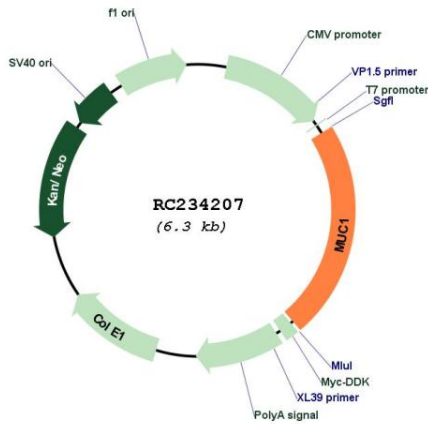
Sgfl-Mlul



**Cytogenetics:** 1q22  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**MW:** 49.7 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 RC234207