

Product datasheet for SC331542

EMA (MUC1) (NM_001204286) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: EMA (MUC1) (NM_001204286) Human Untagged Clone
Tag: Tag Free
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
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331542 representing NM_001204286.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACACCGGGCACCCAGTCTCCTTTCTCCTGCTGCTGCTCCTCACAGTGCTTACAGCTACCACAGCC
CCTAAACCCGCAACAGTTGTTACGGGTTCTGGTCATGCAAGCTCTACCCAGGTGGAGAAAAGGAGACT
TCGGCTACCCAGAGAAGTTCAGTGCCAGCTCTACTGAGAAGAATGCTGTGAGTATGACCAGCAGCGTA
CTCTCCAGCCACAGCCCCGGTTCAGGCTCCTCCACCACTCAGGGACAGGATGTCCTCTGGCCCCGGCC
ACGGAACCAGCTTCAGGTTAGCTGCCACCTGGGGACAGGATGTCACCTCGGTCCCAGTACCAGGCCA
GCCCTGGGCTCCACCACCCCGCCAGCCACGATGTCACCTCAGCCCCGGACAACAAGCCAGCCCCGGGC
TCCACCGCCCCCAGCCACGGTGTACCTCGGCCCGGACACCAGGCCGGCCCCGGGCTCCACCGCC
CCCCAGCCCATGGTGTACCTCGGCCCGGACAACAGGCCCGCCTTGGGCTCCACCGCCCCCTCCAGTC
CACAATGTACCTCGGCCTCAGGCTCTGCATCAGGCTCAGCTTCTACTCTGGTGCACAACGGCACCTCT
GCCAGGGTACCACAACCCAGCCAGCAAGAGCACTCCATTCTCAATTCCCAGCCACCACTCTGATACT
CCTACCACCTTGCCAGCCATAGCACCAAGACTGATGCCAGTAGCACTACCATAGCACGGTACCTCCT
CTCACCTCCTCAATCACAGCACTTCTCCCCAGTTGTCTACTGGGGTCTCTTTCTTTTCTGTCTTTT
CACATTTCAAACCTCCAGTTTAATTCTCTCTGGAAGATCCCAGCACCGACTACTACCAAGAGCTGCAG
AGAGACATTTCTGAAATGTTTTGCAGATTTATAACAAGGGGTTTTCTGGGCTCTCCAATATTAAG
TTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCCTCCGAGAAGGTACCATCAATGTCCACGAC
GTGGAGACACAGTTCAATCAGTATAAACGGAAGCAGCCTCTCGATATAACCTGACGATCTCAGACGTC
AGCGTGAGTGATGTGCCATTTCTTTCTCTGCCAGTCTGGGGCTGGGGTCCAGGCTGGGGCATCGCG
CTGCTGGTGTCTGTGTTCTGGTTGCGCTGGCCATTGTCTATCTCATTGCCTTGGCTGTCTGTGAG
TGCCGCCGAAAGAACTACGGGCAGCTGGACATCTTTCCAGCCCCGGGATACCTACCATCCTATGAGCGAG
TACCCACCTACCACACCCATGGGCGCTATGTCCCCCTAGCAGTACCGATCGTAGCCCCATGAGAAG
GTTTCTGCAGGTAATGGTGGCAGCAGCCTCTTTACACAAACCCAGCAGTGGCAGCCACTCTGCCAAC
TTGTAG
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001204286
Insert Size: 1455 bp



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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](#)

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_001204286.1](#)

RefSeq Size: 1853 bp

RefSeq ORF: 1455 bp

Locus ID: 4582

UniProt ID: [P15941](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 50.1 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]

Transcript Variant: This variant (10) has multiple differences but maintains the reading frame, compared to variant 1. The encoded isoform (10) is longer than isoform 1.