

Product datasheet for **SC108321**

EMA (MUC1) (NM_002456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMA (MUC1) (NM_002456) 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
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108321 sequence for NM_002456 edited (data generated by NextGen Sequencing) ATGACACCGGGCACCCAGTCTCCTTTCTCCTGCTGCTGCTCCTCACAGTGCTTACAGTT GTTACAGGTTCTGGTCATGCAAGCTCTACCCAGGTGGAGAAAAGGAGACTTCGGCTACC CAGAGAAGTTCAGTGCCAGCTCTACTGAGAAGAATGCTTTGTCTACTGGGGTCTCTTTC TTTTCTGTCTTTTACATTTCAAACCTCCAGTTTAATTCCTCTCTGGAAGATCCCAGC ACCGACTACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTGCAGATTTATAAA CAAGGGGGTTTTCTGGGCTCTCCAATATTAAGTTCAGGCCAGGATCTGTGGTGGTACAA TTGACTCTGGCCTCCGAGAAGGTACCATCAATGTCCACGACGTGGAGACACAGTTCAAT CAGTATAAAACGGAAGCAGCCTCTCGATATAACCTGACGATCTCAGACGTCAGCGTGAGT GATGTGCCATTTCTTTCTGCCCAGTCTGGGGCTGGGGTGCCAGGCTGGGGCATCGCG CTGCTGGTGTCTGTGTTCTGGTTGCGCTGGCCATTGTCTATCTCATTGCCTTGCT GTCTGTCAGTGCCGCCGAAAGAACTACGGGCAGCTGGACATCTTCCAGCCCGGGATACC TACCATCCTATGAGCGAGTACCCACCTACCACACCCATGGGCGCTATGTCCCCCTAGC AGTACCGATCGTAGCCCCATGAGAAGGTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCT TACACAAACCCAGCAGTGGCAGCCACTTCTGCCAATTGTAG
	Clone variation with respect to NM_002456.5 66 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002456 unedited</p> <pre>TGGGGNNGCAATCAACTTGNATTTTTGTNAACACGTTCTTCACTNTCAGGGNCGGCACG CGCAATTCGGCACCACATCTGTTCTGCCCTCCCCACCCATTTACCACCACCATGACA CCGGGCACCCAGTCTCCTTTCTTCTGCTGCTCCTCACAGTGCTTACAGTTGTTACA GGTTCTGGTCATGCAAGCTCTACCCAGGTGGAGAAAAGGAGACTTCGGCTACCCAGAGA AGTTCAGTGCCCAGCTCTACTGAGAAGAATGCTTTGTCTACTGGGGTCTCTTTCTTTTC CTGTCTTTTTCACATTTCAAACCTCCAGTTTAATTCCTCTCTGGAAGATCCAGCACCGAC TACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTTGCAGATTTATAAACAGGG GGTTTTCTGGGCTCTCCAATATTAAGTTCAGGCCAGGATCTGTGGTGGTACAATTGACT CTGGCCTTCCGAGAAGGTACCATCAATGTCCACGACGTGNAGACACAGTTCAATCAGTAT AAAACGGAAGCAGCCTCTCGATAAACCTGACGATCTCAGACGTCAGCGTGAGTGATGTG CCATTTCTTTCTCTGGCCATCTGGGGCTGGGGTCCCAAGCCTGGGCATCCCCCTCT GGGGCTGGGCTGGGTTCCGGTTGCCCTGGCATTGGCTAACCAATGGCCTTGGGCGT GCTGTCAAGGCCCCCAAAAAAATCAGGGGCAATTGAAATTTTTTCCCCCGGGG AACCCCCCCCCCTTTAGAGGGGTTCCCCACTTTAACAAACCTTTGGGGCGCCTT GGGGTCCCCC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002456 unedited</p> <pre>GGGGGACTTGGGGATGGCAATTCATGNCCAGNANAGCACTGGGGCAGGGTACAGGGA TGCCACCCGGGATCTGTTAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTT TTTTTTTTTTTTTTTTTTCGCGAGTGGGAGACCAGTTTTATTAGTCCAGTTCAGGAT CCCCGCTATCTCAGGGCTCTCTGGGCCAGTCTCTGGGAGCCCCACCACAACACTTCC CAGGCATGAGCCCTCAGGGGCCACATGAGCTTCCACACACTGAGAAGTGTCCGAGAAAT TGGTGGGGCTCTGAAGGAGGCTGTGAGCAGCCACCTGAACTCCAGCTCACCAGCCCA AACAGGGTGCAGGGGCTCTGGCCCTGAAGAACCTGAGTGGAGTGGAAATGGCACTGGCTGG CCTACTCAGCTCAGCGGGCAGCTGCCCTACAAGTTGGCAGAAGTGGCTGCCACTGCTGG GTTTGTGTAAGAGAGGCTGCTGCCACCTTACCTGCAGAACTTCTCATAGGGGCTACG ATCGTACTGCTAGGGGGCACATAGCGCCATGGGTGTGGTAGGTGGGGTACTCGCTCAT AGGATGGTAGGTATCCCGGGCTGGAAAGATGTCCAGCTGCCCGTAGTTCTTTCCGGCGCA CTGACAGACAGCCAAGGCAATGAGATAGACAATGGCCAGCGCAACCAGAACACAGACCAG CACCAGCAGCGGATGCCCCAGCCTGGCACCCAGCCCCAGACTGGGCAGAGAAAGGAAA TGGCACATCACTCAGCTGACGCTGAGATCGTCAGGTTATATCGAGAGGCTGCTCCGT TTTATACTGATTGAACTGTGTCTCCACGTCGTGGACATTGATGGTACCTT</pre>
Restriction Sites:	Please inquire
ACCN:	NM_002456
Insert Size:	1300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002456.4](#), [NP_002447.4](#)

RefSeq Size: 1209 bp

RefSeq ORF: 822 bp

Locus ID: 4582

UniProt ID: [P15941](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

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 (1) represents isoform 1.