

## Product datasheet for **SC204243**

### **MUC1 (NM\_002456) Human 3' UTR Clone**

#### **Product data:**

**Product Type:** 3' UTR Clones  
**Product Name:** MUC1 (NM\_002456) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** MUC1  
**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  
**ACCN:** NM\_002456  
**Insert Size:** 341 bp  
**Insert Sequence:** >SC204243 3'UTR clone of NM\_002456  
The sequence shown below is from the reference sequence of NM\_002456. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG  
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC  
GCAGTGGCAGCCACTTCTGCCAATTGTAGGGGCACGTGCGCCGCTGAGCTGAGTGGCCAGCCAGTGCC  
ATTCCACTCCACTCAGGTTCTTCAGGGCCAGAGCCCCTGCACCCTGTTTGGGCTGGTGGAGTGGGAGTT  
CAGGTGGGCTGCTCACAGCCTCCTCAGAGGCCCAACAAATTTCTCGGACACTTCTCAGTGTGTGGAAG  
CTCATGTGGGCCCTGAGGGCTCATGCCTGGGAAGTGTGTGGTGGGGGCTCCAGGAGGACTGGCCCA  
GAGAGCCCTGAGATAGCGGGATCCTGAACTGGACTGAATAAAACGTGGTCTCCCACTGCGCCAA  
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA  
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).  
**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.  
**RefSeq:** [NM\\_002456.6](#)



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**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]

**Locus ID:** 4582

**MW:** 11.7