

## Product datasheet for **SR303004**

### EMA (MUC1) Human siRNA Oligo Duplex (Locus ID 4582)

#### Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<a href="#">NM_001018016</a> , <a href="#">NM_001018017</a> , <a href="#">NM_001018021</a> , <a href="#">NM_001044390</a> , <a href="#">NM_001044391</a> , <a href="#">NM_001044392</a> , <a href="#">NM_001044393</a> , <a href="#">NM_001204285</a> , <a href="#">NM_001204286</a> , <a href="#">NM_001204287</a> , <a href="#">NM_001204288</a> , <a href="#">NM_001204289</a> , <a href="#">NM_001204290</a> , <a href="#">NM_001204291</a> , <a href="#">NM_001204292</a> , <a href="#">NM_001204293</a> , <a href="#">NM_001204294</a> , <a href="#">NM_001204295</a> , <a href="#">NM_001204296</a> , <a href="#">NM_001204297</a> , <a href="#">NM_002456</a> , <a href="#">NM_182741</a>
UniProt ID:	<a href="#">P15941</a>
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
Components:	MUC1 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 4582) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
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]



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**Performance  
Guaranteed:**

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data required).