

## Product datasheet for PH324986

### Small EDRK rich factor 1 (SERF1A) (NM\_022968) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SERF1A MS Standard C13 and N15-labeled recombinant protein (NP_075257)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224986
Predicted MW:	7.2 kDa
Protein Sequence:	>RC224986 representing NM_022968 Red=Cloning site Green=Tags(s)  MARGNQRELARQKNMKTQEISKGRKEDSLTASQRKQRDSEIMQEKKQAANEKKSMTREK  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_075257</a>
RefSeq ORF:	186
Synonyms:	4F5; FAM2A; H4F5; SERF1; SMAM1
Locus ID:	8293
UniProt ID:	<a href="#">O75920</a>
Cytogenetics:	5q13.2



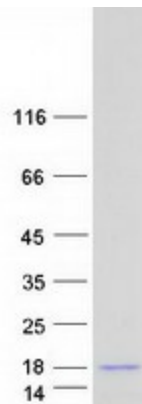
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**Summary:**

This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. The duplication region includes both a telomeric and a centromeric copy of this gene. Deletions of this gene, the telomeric copy, often accompany deletions of the neighboring SMN1 gene in spinal muscular atrophy (SMA) patients, and so it is thought that this gene may be a modifier of the SMA phenotype. The function of this protein is not known; however, it bears low-level homology with the RNA-binding domain of matrin-cyclophilin, a protein which colocalizes with small nuclear ribonucleoproteins (snRNPs) and the SMN1 gene product. Alternatively spliced transcripts have been documented but it is unclear whether alternative splicing occurs for both the centromeric and telomeric copies of the gene. [provided by RefSeq, Jul 2008]

**Protein Families:**

Transmembrane

**Product images:**

Coomassie blue staining of purified SERF1A protein (Cat# [TP324986]). The protein was produced from HEK293T cells transfected with SERF1A cDNA clone (Cat# [RC224986]) using MegaTran 2.0 (Cat# [TT210002]).