

## Product datasheet for PH302448

### SM22 alpha (TAGLN) (NM\_001001522) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | TAGLN MS Standard C13 and N15-labeled recombinant protein (NP_001001522)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC202448   |
| Predicted MW:                         | 22.6 kDa   |
| Protein Sequence:                     | >RC202448 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MANKGPSYGMRSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDRGRLGFQVWLKNGVILSKLVNSLY<br>PDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEGKDMAAVQRTLALGSLAVTK<br>NDGHYRGDPNWFMKKAQECHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIIS<br><br>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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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_001001522</a>   |
| RefSeq Size:                          | 1574   |
| RefSeq ORF:                           | 603  |
| Synonyms:                             | SM22; SM22-alpha; SMCC; TAGLN1; WS3-10   |
| Locus ID:                             | 6876   |
| UniProt ID:                           | <a href="#">Q01995</a> , <a href="#">Q5U0D2</a>  |

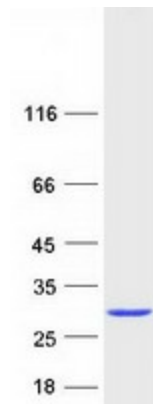


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**Cytogenetics:** 11q23.3

**Summary:** This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization. [provided by RefSeq, Aug 2017]

**Product images:**



Coomassie blue staining of purified TAGLN protein (Cat# [TP302448]). The protein was produced from HEK293T cells transfected with TAGLN cDNA clone (Cat# [RC202448]) using MegaTran 2.0 (Cat# [TT210002]).