

## Product datasheet for PH318272

### MRAS (NM\_001085049) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MRAS MS Standard C13 and N15-labeled recombinant protein (NP_001078518)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218272
Predicted MW:	23.7 kDa
Protein Sequence:	>RC218272 representing NM_001085049 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MATSAVPSDNLPTYKLVVVGDDGGVSKSALTIQFFQKIFVDPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG QEEFSAMREQYMRTGDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQ GKEMATKHNIPIYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKTKWRGDRATGTHKLQCVIL  <b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
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_001078518</a>
RefSeq Size:	4013
RefSeq ORF:	624
Synonyms:	M-RAS; NS11; R-RAS3; RRAS3
Locus ID:	22808
UniProt ID:	<a href="#">O14807</a> , <a href="#">Q6FGP0</a> , <a href="#">Q8WVM9</a>



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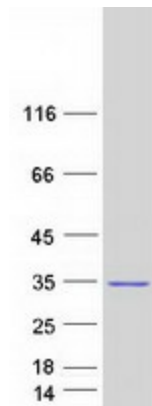
**Cytogenetics:** 3q22.3

**Summary:** This gene encodes a member of the Ras family of small GTPases. These membrane-associated proteins function as signal transducers in multiple processes including cell growth and differentiation, and dysregulation of Ras signaling has been associated with many types of cancer. The encoded protein may play a role in the tumor necrosis factor-alpha and MAP kinase signaling pathways. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction

### Product images:



Coomassie blue staining of purified MRAS protein (Cat# [TP318272]). The protein was produced from HEK293T cells transfected with MRAS cDNA clone (Cat# [RC218272]) using MegaTran 2.0 (Cat# [TT210002]).