

# Recombinant Human MRAS Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MRAS-1104H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MRAS MS Standard C13 and N15-labeled recombinant protein (NP_001078518) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 23.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MATSAVPSDNLPTYKLVVVGDDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDN<br>QWAILDVLDTAGQEEFSAMREQYMRTGDGFLIVSVTDKASFEHVDRFHQLILRVKD<br>RESFPMILVANKVDLMHLRKITREQGKEMATKHNIPYIETSAKDPPLNVDKAFHDLVR<br>VIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVILTRTRPLEQKLISEEDLAANDILD<br>YKDDDDKV                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

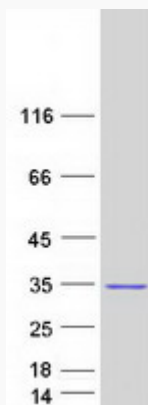
## GENE INFORMATION

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MRAS muscle RAS oncogene homolog [ Homo sapiens (human) ]                                                                                                            |
| <b>Official Symbol</b> | MRAS                                                                                                                                                                 |
| <b>Synonyms</b>        | MRAS; muscle RAS oncogene homolog; ras-related protein M-Ras; M RAs; R RAS3; RRAS3; muscle and microspikes RAS; ras-related protein R-Ras3; M-RAS; R-RAS3; FLJ42964; |
| <b>Gene ID</b>         | 22808                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_001085049                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001078518                                                                                                                                                         |
| <b>MIM</b>             | 608435                                                                                                                                                               |
| <b>UniProt ID</b>      | O14807                                                                                                                                                               |

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**SDS-PAGE**

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