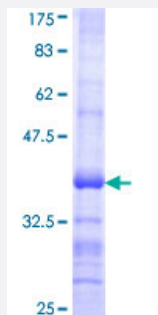


# MUSK (Human) Recombinant Protein (Q01)

Catalog # H00004593-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Product Description           | Human MUSK partial ORF ( NP_005583, 301 a.a. - 400 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence                      | ISIAEWSKPQKDNKGYCAQYRGEVCNAVLAKDALVFLNTSYADPEEAQELLVHTAWNELKVVSPVCRPAAEALLCNHIFQECSPGVVPTPIPICREYCLA     |
| Host                          | Wheat Germ (in vitro)                                                                                    |
| Theoretical MW (kDa)          | 36.63                                                                                                    |
| Interspecies Antigen Sequence | Mouse (87)                                                                                               |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                    |
| Purification                  | Glutathione Sepharose 4 Fast Flow                                                                        |
| Quality Control Testing       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                              |
| Storage Buffer                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                 |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                          |
| Note                          | Best use within three months from the date of receipt of this protein.                                   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MUSK

Entrez GeneID [4593](#)

GeneBank Accession# [NM\\_005592](#)

Protein Accession# [NP\\_005583](#)

Gene Name MUSK

Gene Alias MGC126323, MGC126324

Gene Description muscle, skeletal, receptor tyrosine kinase

Omim ID [601296](#) [608931](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

Intercellular communication is often mediated by receptors on the surface of one cell that recognize and are activated by specific protein ligands released by other cells. Members of one class of cell surface receptors, receptor tyrosine kinases (RTKs), are characterized by having a cytoplasmic domain containing intrinsic tyrosine kinase activity. This kinase activity is regulated by the binding of a cognate ligand to the extracellular portion of the receptor. DeChiara et al. (1996) [PubMed 8653786] noted that the RTKs, known to be expressed in cell type-specific fashions, play a role critical for the growth and differentiation of those cell types. For example, members of the neural-specific TRK family that recognize nerve growth factor are absolutely required for the survival and development of discrete neuronal subpopulations, and the receptor tyrosine kinases TIE1 (MIM 600222) and TIE2 (MIM 600221) play a critical role in the development of normal blood vessels.[supplied by OMIM]

**Other Designations** protein-tyrosine kinase|receptor tyrosine kinase|skeletal muscle receptor tyrosine kinase

## Disease

- [Kidney Failure](#)