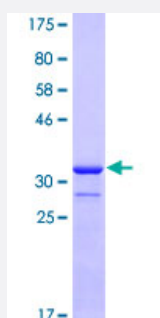


# MEF2A (Human) Recombinant Protein (Q02)

Catalog # H00004205-Q02

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human MEF2A partial ORF (NP_005578.1, 325 a.a. - 402 a.a.) recombinant protein with GST tag at N-terminal. |
| <b>Sequence</b>                      | QGLVYSAMPTAYNTDYSLTADLSALQGFSNPGMLSLGQVSAWQQHHLGQAALSSLVAGGQLS<br>QGSNLSINTNQNIS                           |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                      |
| <b>Theoretical MW (kDa)</b>          | 34.21                                                                                                      |
| <b>Interspecies Antigen Sequence</b> | Mouse (96); Rat (96)                                                                                       |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                      |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                          |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue                                                                 |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                   |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                            |
| <b>Note</b>                          | 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 — MEF2A

Entrez GeneID [4205](#)

GeneBank Accession# [NM\\_005587.1](#)

Protein Accession# [NP\\_005578.1](#)

Gene Name MEF2A

Gene Alias ADCAD1, RSRFC4, RSRFC9

Gene Description myocyte enhancer factor 2A

Omim ID [600660](#) [608320](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The process of differentiation from mesodermal precursor cells to myoblasts has led to the discovery of a variety of tissue-specific factors that regulate muscle gene expression. The myogenic basic helix-loop-helix proteins, including myoD (MIM 159970), myogenin (MIM 159980), MYF5 (MIM 159990), and MRF4 (MIM 159991) are one class of identified factors. A second family of DNA binding regulatory proteins is the myocyte-specific enhancer factor-2 (MEF2) family. Each of these proteins binds to the MEF2 target DNA sequence present in the regulatory regions of many, if not all, muscle-specific genes. The MEF2 genes are members of the MADS gene family (named for the yeast mating type-specific transcription factor MCM1, the plant homeotic genes 'agamous' and 'deficiens' and the human serum response factor SRF (MIM 600589)), a family that also includes several homeotic genes and other transcription factors, all of which share a conserved DNA-binding domain.[supplied by OMIM]

**Other Designations** MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A)

## Disease

- [Atherosclerosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Insulin Resistance](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Polycystic Ovary Syndrome](#)
- [Tobacco Use Disorder](#)