

# Recombinant Full Length Human MYOD1 Protein, GST-tagged

**Cat. No.** MYOD1-6607HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MYOD1 full-length ORF ( NP_002469.2, 1 a.a. - 320 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 320 amino acids                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 60.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MELLSPPLRDVDLTAPDGSLCSFATTDDFYDDPCFDSPDLRFFEDLDPRLMHVGALL<br>KPEEHSHFPAAVHPAPGAREDEHVRAPSGHHQAGRCLLWACKACKRKTTNADRRK<br>AATMRERRRLSKVNEAFETLKRCTSSNPQNQLPKVEILRNAIRYIEGLQALLRDQDAA<br>PPGAAAFAFYAPGPLPPGRGGEHYSGDSDASSPRSNCSGDMMDYSGPPSGARRRN<br>CYEGAYYNEAPSEPRPGKSAAVSSLDCLSSIVERISTESPAAPALLLADVPSSEPPRR<br>QEAAAPSEGESSGDPTQSPDAAPQCPAGANPNPIYQVL                                                                         |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|----------------------------------------------------------------------------|
|                       | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.     |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.   |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.   |

## GENE INFORMATION

|                        |                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MYOD1 myogenic differentiation 1 [ Homo sapiens ]                                                                                                                                          |
| <b>Official Symbol</b> | MYOD1                                                                                                                                                                                      |
| <b>Synonyms</b>        | MYOD1; myogenic differentiation 1; MYF3, myogenic factor 3; myoblast determination protein 1; bHLHc1; MYOD; PUM; myf-3; myogenic factor 3; class C basic helix-loop-helix protein 1; MYF3; |
| <b>Gene ID</b>         | 4654                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_002478                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_002469                                                                                                                                                                                  |
| <b>MIM</b>             | 159970                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P15172                                                                                                                                                                                     |

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