

# Recombinant Human MYO5A Protein, GST-tagged

**Cat. No.** MYO5A-5841H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MYO5A partial ORF ( NP_000250.1, 1758 a.a. - 1853 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>This gene is one of three myosin V heavy-chain genes, belonging to the myosin gene superfamily. Myosin V is a class of actin-based motor proteins involved in cytoplasmic vesicle transport and anchorage, spindle-pole alignment and mRNA translocation. The protein encoded by this gene is abundant in melanocytes and nerve cells. Mutations in this gene cause Griscelli syndrome type-1 (GS1), Griscelli syndrome type-3 (GS3) and neuroectodermal melanolysosomal disease, or Elejalde disease. Multiple alternatively spliced transcript variants encoding different isoforms have been reported, but the full-length nature of some variants has not been determined. [provided by RefSeq]</p> |
| <b>Molecular Mass</b>   | 36.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | KKTDDDAEAICSMCNALTTAQIVKVLNLYTPVNEFEERVSVSFIRTIQMRLRDRKDSP<br>QLLMDAKHIFPVTFFPNPSSLALETIQIPASLGLGFIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | <p>Enzyme-linked Immunoabsorbent Assay</p> <p>Western Blot (Recombinant protein)</p> <p>Antibody Production</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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### 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. |

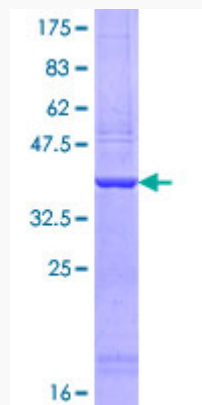
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MYO5A myosin VA (heavy chain 12, myoxin) [ Homo sapiens ]                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | MYO5A                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | MYO5A; myosin VA (heavy chain 12, myoxin); MYH12, myosin VA (heavy polypeptide 12, myoxin); unconventional myosin-Va; GS1; MYO5; myosin heavy chain 12; myosin V; myosin; heavy polypeptide kinase; myoxin; MYR12; myosin-12; myosin-Va; myosin, heavy polypeptide kinase; dilute myosin heavy chain, non-muscle; MYH12; |
| <b>Gene ID</b>         | 4644                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_000259                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_000250                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>             | 160777                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | Q9Y4I1                                                                                                                                                                                                                                                                                                                   |

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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