

# Recombinant Full Length Human MYO1C Protein, GST-tagged

**Cat. No.** MYO1C-6771HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MYO1C full-length ORF ( NP_203693.2, 1 a.a. - 1028 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>    | 1028 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a member of the unconventional myosin protein family, which are actin-based molecular motors. The protein is found in the cytoplasm, and one isoform with a unique N-terminus is also found in the nucleus. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. The mouse ortholog of this protein also functions in intracellular vesicle transport to the plasma membrane. Multiple transcript variants encoding different isoforms have been found for this gene. The related gene myosin IE has been referred to as myosin IC in the literature, but it is a distinct locus on chromosome 19. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 144.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MESALTARDRVGVQDFVLLNFTSEAAFIENLRRRFRENLIYTYIGPVLVSVNPYRDL<br>QIYSRQHMER YRGVSFYEVPPHLFAVADTVYRALRTERRDQAVMISGESGAGKTEA<br>TKRLLQFYAETCPAPERGGAVRDRLLQSNPVLEAFGNAKTLRNDNSSRFGKYMDV<br>QDFDKGAPVGGHILSYLLEKSRVVHQNHGERNFHIFYQLLEGGEEETLRRLLGLERNP<br>QSYLYLVKGQCAKVSSINDKSDWKVVRKALTVIDFTEDEVEDLLSIVASVLHLGNIHF                                                                                                                                                                                                                                                                                                                                                                               |

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AANEEESNAQVTTENQLKYLTRLSSVEGSTLREALTHRKIIAKGEEILLSPLNLEQAAYA  
 RDALAKAVYSRTFTWLVGKINRSLASKDVESPSWRSTTVLGLLDIYGFEVFQHNSFE  
 QFCINYCNEKLQQFLIELTLKSEQEEYEAEGIAWEPVQYFNNKIICDLVEEKFKGIISIL  
 DEECLRPGEATDLTFLEKLEDTVKHHPHFLTHKLADQQRTRKSLGRGEFRLLHYAGEV  
 TYSVTGFLDKNNDLLFRNLKETMCSSKNPIMSQCFCDRSELSDKKRPETVATQFKMSL  
 LQLVEILQSKEPAYVRCIKPNDKQPGRFDEVLRHQVKYLGLLENLRVRRAGFAYR  
 RKYEAFLQRYKSLCPETWPTWAGRPQDGVAVLVRHLGYKPEEYKMGRTKIFIRFPK  
 TLFATEDALEVRRQSLATKIQAAWRGFHWQKFLRVKRSACIQSWWRGTLGRRKA  
 AKRKWAAQTIRRLIRGFILRHAPRCPENAFFLDHVRTSFLNLRRQLPRNVLDTSWP  
 TPPPALREASELLRELCKNMVWKYCRSISPEWKQQLQKAVASEIFKGKKDNYPQS  
 VPRLFISTRGLGTDEISPRVLQALGSEPIQYAVPVVKYDRKGYKPRSRQLLLTPNAVIV  
 EDAKVKQRIDYANLTGISVSSLSDSLFLVLRADNKQKGDVVLQSDHVIETLTKTAL  
 SANRVNSININQGSITFAGGPGRDGTIDFTPGSELLITKAKNGHLAVVAPRLNSR

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>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>       | MYO1C myosin IC [ Homo sapiens ] |
| <b>Official Symbol</b> | MYO1C                            |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | MYO1C; myosin IC; unconventional myosin-Ic; myr2; myosin-Ic; myosin I beta; myosin-I beta; nuclear myosin I; NMI; MM1b; MMI-beta; FLJ23903; |
| <b>Gene ID</b>        | <a href="#">4641</a>                                                                                                                        |
| <b>mRNA Refseq</b>    | <a href="#">NM_001080779</a>                                                                                                                |
| <b>Protein Refseq</b> | <a href="#">NP_001074248</a>                                                                                                                |
| <b>MIM</b>            | <a href="#">606538</a>                                                                                                                      |
| <b>UniProt ID</b>     | <a href="#">O00159</a>                                                                                                                      |

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