

## Recombinant Human ACTL7B Protein, GST-tagged

**Cat. No.** ACTL7B-225H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Human ACTL7B full-length ORF ( NP_006677.1, 1 a.a. - 415 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene (ACTL7B), and related gene, ACTL7A, are intronless, and are located approximately 4 kb apart in a head-to-head orientation within the familial dysautonomia candidate region on 9q31. Based on mutational analysis of the ACTL7B gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. Unlike ACTL7A, the ACTL7B gene is expressed predominantly in the testis, however, its exact function is not known. [provided by RefSeq, Jul 2008]</p> |
| <b>Molecular Mass</b>   | 71.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MATRNSPMLGTAQGDPGEAGTRPGPDASLRDTGAATQLKMKPRKVHKKIKAVIIDL<br>GSQYCKCGYAGEPRPTYFISSTVGKRCPEAADAGDTRKWTLVGHELLNTEAPLKL<br>V NPLKHGIVVDWDCVQDIWEYIFRTAMKILPEEHAVLVSDPPLSPSSNREKYAELMFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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TFGIPAMHVTSQSLLSIYSYGKTSGLVVESGHGVSHVVPISSEGDVLPGLTSRADYAG  
 GDLTNYLMQLLNEAGHAFTDDHLHIIHIIKKCCYAAFLPEEELGLVPEELRVDYELP  
 DGKLITIGQERFRCSEMLFQPSLAGSTQPGLPELTAACLGRCQDTGFKEEMAANVLL  
 CGGCTMLDGFPERFQRELSLLCPGDSPAVAAAPERKTSVWTGGSILASLQAFQQL  
 WWSKEEFEERGSVAIYSKC

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

ACTL7B actin-like 7B [ Homo sapiens ]

**Official Symbol**

ACTL7B

**Synonyms**

ACTL7B; actin-like 7B; actin-like protein 7B; Tact1; actin-like 7-beta; actin-like-7-beta;

**Gene ID**

10880

**mRNA Refseq**

NM\_006686

**Protein Refseq**

NP\_006677

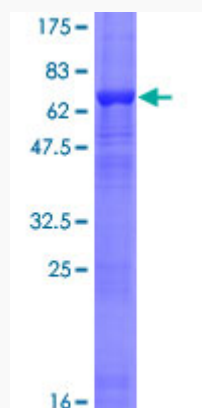
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MIM 604304

UniProt ID Q9Y614



12.5% SDS-PAGE Stained with Coomassie Blue.

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