

## Product datasheet for PH307474

### ACTL7B (NM\_006686) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ACTL7B MS Standard C13 and N15-labeled recombinant protein (NP_006677)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207474
Predicted MW:	45.2 kDa
Protein Sequence:	>RC207474 protein sequence Red=Cloning site Green=Tags(s)

MATRNSPMLGTAQGDPEAGTRPGPDASLRDTGAATQLKMKPRKVHKIKAVIIDLGSQYCKCGYAGEPR  
PTYFISSTVGKRCPEAADAGDTRKWTLVGHELLNTEAPLKLVNPLKHGIVVDWDCVQDIWEYIFRTAMKI  
LPEEHAVLVSDPPLSPSSNREKYAELMFETFGIPAMHVTSQSLLSIYSYGKTSGLVVEESGHGVSHVVPIS  
EGDVLPGLTSRADYAGGDLTNYLMQLLNEAGHAFDDDLHIIIEHIKKKCCYAAFLPEEELGLVPEELRVD  
YELPDGKLIITIGQERFRCSEMLFQPSLAGSTQGPLPELTAACLGRCDTGFKEMAANVLLCGGCTMLDG  
FPERFQRELSLLCPGDSPAVAAAAPERKTSVWTGGSILASLQAFQQLWVSKEEFEERGSVAIYSKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_006677</a></u>
RefSeq Size:	1408
RefSeq ORF:	1245
Synonyms:	Tact1
Locus ID:	10880



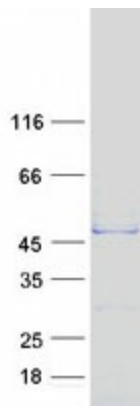
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UniProt ID: [Q9Y614](#), [AOA140VKC6](#)

Cytogenetics: 9q31.3

**Summary:** 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]

### Product images:



Coomassie blue staining of purified ACTL7B protein (Cat# [TP307474]). The protein was produced from HEK293T cells transfected with ACTL7B cDNA clone (Cat# [RC207474]) using MegaTran 2.0 (Cat# [TT210002]).