

## Product datasheet for PH308053

### ARPC1A (NM\_006409) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ARPC1A MS Standard C13 and N15-labeled recombinant protein (NP_006400)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208053
Predicted MW:	41.6 kDa
Protein Sequence:	>RC208053 protein sequence Red=Cloning site Green=Tags(s)
	MSLHQFLLEPITCHAWNRDRTQIALSPNNHEVHIYKKNQSQWVKAHELKEHNGHITGIDWAPKSDRIVTC GADRNAYVWSQKDGWVKPTLVILRINRAATFVKWSPLENKFVAVGSGARLISVCYFESENDWWVSKHIKPK IRSTVLSLDWHPNNVLLAAGSCDFKCRVFSAYIKEVDEKPASTPWGSKMPFGQLMSEFGSGTGGWVHGV SFSASGSR LAWVSHDSTVSVADASKSVQVSTLKTFLPLLVSFVSENSVVAAGHDCCPMLFNYYDRGCL TFVSKLDIPKQSIQRNMSAMERFRNMDKRATTEDRNTALETLHQNSITQVSIYEVDKQDCRFCTTGIDG AMTIWDFKTLESSIQGLRIM
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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_006400</a></u>
RefSeq Size:	1623
RefSeq ORF:	1110
Synonyms:	Arc40; HEL-68; HEL-S-307; SOP2Hs; SOP2L
Locus ID:	10552



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UniProt ID: [Q92747](#), [V9HVZ6](#)

Cytogenetics: 7q22.1

**Summary:** This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

**Protein Pathways:** Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton

### Product images:



Coomassie blue staining of purified ARPC1A protein (Cat# [TP308053]). The protein was produced from HEK293T cells transfected with ARPC1A cDNA clone (Cat# [RC208053]) using MegaTran 2.0 (Cat# [TT210002]).