

## Product datasheet for PH307192

### FIG4 (NM\_014845) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FIG4 MS Standard C13 and N15-labeled recombinant protein (NP_055660)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207192
Predicted MW:	103.6 kDa
Protein Sequence:	>RC207192 protein sequence Red=Cloning site Green=Tags(s)

MPTAAAPIISSVQKLVLYETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYTQQEVRELLGRL  
DLGNRTKMGQKGSGLFRAVSAGVGVGFRFLEGYYIVLITKRRKMADIGGHAIYKVEDTNMIYIPNDSV  
RVTHPDEARYLRIFQNVDLSSNFYFSYSYDLSHSLQYNLTVLRMPLEMLKSEMTQNRQESFDIFEDEGLI  
TQGGSGVFGICSEPYMKYVWNGELLDIIKSTVHRDWLLYIIHGFCGQSKLLIYGRPVYVTLIARRSSKFA  
GTRFLKRGANCEGDVANEVETEQILCDASVMSFTAGSYSSYVQVRGVSPLYWSQDISTMMPKPPITLDQA  
DPFAHVAALHFDQMFQRFQSPPIIILNLVKEREKRKHERILSEELVAAVTYLNQFLPPEHTIVYIPWDMAK  
YTKSKLCNVLDRLNVIAESVVKKTGFFVNRPDYSYCSILRPDEKWNELGGCVIPTGRLQTGILRTNCVDCL  
DRTNTAQFMVGCALAYQLYSLGLIDKPNLQFDTDAVRLFEELYEDHGDLSLQYGGSQLVHRVKTYRKI  
APWTQHSKDQMQLSRYSNAFSDADRQDSINLFLGVFHPTEGKPHLWELPTDFYLHHKNTMRLLPTRRS  
YTYWWTPEVIKHLPLPYDEVICAVNLKLIIVKFKHYEEEEIDIHNEFFRPYELSSFDDTFLAMTSSARD  
FMPKTVGIDPSPFTVRKPDETGKSVLGNKSNREEAVLQRKTAASAPPPSEEAUSSSEDDSGTDREEEG  
SVSQRSTPVKMTDAGDSAKVTENVVQPMKELYGINLSDGLSEEDFSIYSRFVQLGQSQHKQDKNSQQPCS  
RCSDGVIKLTPISAFSQDNIYEVQPPRVDRKSTEIFQAHIQASQGIMQPLGKEDSSMYREYIRNRYL

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.

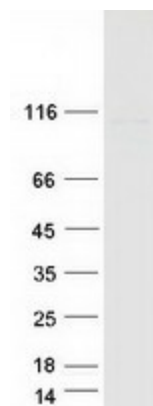


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RefSeq:	<a href="#">NP_055660</a>
RefSeq Size:	3123
RefSeq ORF:	2721
Synonyms:	ALS11; BTOP; CMT4J; dJ249I4.1; KIAA0274; SAC3; YVS
Locus ID:	9896
UniProt ID:	<a href="#">Q92562</a>
Cytogenetics:	6q21

**Summary:** The protein encoded by this gene belongs to the SAC domain-containing protein gene family. The SAC domain, approximately 400 amino acids in length and consisting of seven conserved motifs, has been shown to possess phosphoinositide phosphatase activity. The yeast homolog, Sac1p, is involved in the regulation of various phosphoinositides, and affects diverse cellular functions such as actin cytoskeleton organization, Golgi function, and maintenance of vacuole morphology. Membrane-bound phosphoinositides function as signaling molecules and play a key role in vesicle trafficking in eukaryotic cells. Mutations in this gene have been associated with Charcot-Marie-Tooth disease, type 4J. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified FIG4 protein (Cat# [TP307192]). The protein was produced from HEK293T cells transfected with FIG4 cDNA clone (Cat# [RC207192]) using MegaTran 2.0 (Cat# [TT210002]).