

## Product datasheet for PH316963

### ABHD12 (NM\_001042472) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ABHD12 MS Standard C13 and N15-labeled recombinant protein (NP_001035937)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216963
Predicted MW:	44.9 kDa
Protein Sequence:	>RC216963 representing NM_001042472 Red=Cloning site Green=Tags(s)

MRKRTEPVALEHERCAAAGSSSSGSAALDADCRLKQNLRLTGPAAPCAADAGMKRALGRRKGWVLR  
RLRKILFCVLGLYIAIPFLIKLCPGIQAKLIFLNFVRVPYFIDLKPKDQGLNHTCNYYLQPEEDVTIGV  
WHTVPAVWWKNAQKQDMWYEDALASSHPILYLHGAGTRGGDHRVELYKVLSSLGYHVTFDYRGWGD  
SVGTPSERGMTYDALHVFWDWIKARSGDNPVYIWGHS�GTGVATNLVRRLCERETPPDALILESPFTNIRE  
EAKSHPFVSIYRYFPGFDWFFLDLPITSSGIKFANDENVKHI SCPLLILHAEDDPVVPFQLGRKLYSIAAP  
ARSRDFKQVFPFHSDLG YRHKYIYKSPELPRILREFLGKSEPEHQH

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>NP_001035937</u>
RefSeq Size:	1983
RefSeq ORF:	1194
Synonyms:	ABHD12A; BEM46L2; C20orf22; dj965G21.2; hABHD12; PHARC
Locus ID:	26090



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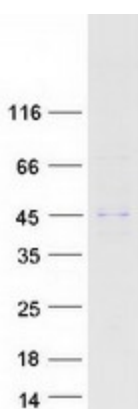
UniProt ID: [Q8N2K0](#)

Cytogenetics: 20p11.21

**Summary:** This gene encodes an enzyme that catalyzes the hydrolysis of 2-arachidonoyl glycerol (2-AG), the main endocannabinoid lipid transmitter that acts on cannabinoid receptors, CB1 and CB2. The endocannabinoid system is involved in a wide range of physiological processes, including neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation. Mutations in this gene are associated with the neurodegenerative disease, PHARC (polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract), resulting from an inborn error of endocannabinoid metabolism. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jan 2011]

**Protein Families:** Protease, Transmembrane

### Product images:



Coomassie blue staining of purified ABHD12 protein (Cat# [TP316963]). The protein was produced from HEK293T cells transfected with ABHD12 cDNA clone (Cat# [RC216963]) using MegaTran 2.0 (Cat# [TT210002]).