

#### OriGene Technologies, Inc.

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# Product datasheet for PH310762

### Apolipoprotein A I (APOA1) (NM\_000039) Human Mass Spec Standard

#### **Product data:**

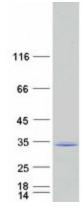
Description:APOA1 MS Standard C13 and N15-labeled recombinant protein (NP_00030)Species:HumanExpression Host:HEK293Expression cDNA Clone or AA Sequence:RC210762Predicted MW:30.8 kDaProtein Sequence:RC210762 protein sequence Red=cloning site Green=Tags(s)MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYDVUKLDSGRDYVSQEEGSALGKQLNLKL DNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG RLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQTag:CMyc/DDK	Product Type:	Mass Spec Standards
Expression Host:HEK293Expression cDNA Clone or AA Sequence:RC210762Predicted MW:30.8 kDaProtein Sequence:>RC210762 protein sequence Red=Cloning site Green=Tags(s)MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYDVLKDSGRDYVSQFEGSALGKQLNLKL DDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQTRTRPLEQKLISEEDLAANDILDYKDDDDKV	Description:	APOA1 MS Standard C13 and N15-labeled recombinant protein (NP_000030)
Expression cDNA Clone or AA Sequence:RC210762Predicted MW:30.8 kDaProtein Sequence:>RC210762 protein sequence Red=Cloning site Green=Tags(s)MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKL DNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQTRTRPLEQKLISEEDLAANDILDYKDDDDKV	Species:	Human
or AA Sequence:Predicted MW:30.8 kDaProtein Sequence:>RC210762 protein sequence Red=Cloning site Green=Tags(s)MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKL LDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQTRTRPLEQKLISEEDLAANDILDYKDDDDKV	Expression Host:	HEK293
Protein Sequence: >RC210762 protein sequence Red=Cloning site Green=Tags(s)   MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKL LDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ   TRTRPLEQKLISEEDLAANDILDYKDDDDKV	•	RC210762
Red=Cloning site Green=Tags(s)   MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKL   LDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR   QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG   ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ   TRTRPLEQKLISEEDLAANDILDYKDDDDKV	Predicted MW:	30.8 kDa
LDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG ARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV	Protein Sequence:	
		LDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYR QKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGG
Tag:C-Myc/DDK		TRTRPLEQKLISEEDLAANDILDYKDDDDKV
	Tag:	C-Myc/DDK
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining	Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b> >0.05 μg/μL as determined by microplate BCA method	Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine	Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3	Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Store at -80°C. Avoid repeated freeze-thaw cycles.	Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b> Stable for 3 months from receipt of products under proper storage and handling conditions.	Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b> <u>NP 000030</u>	RefSeq:	<u>NP 000030</u>
RefSeq Size: 897	RefSeq Size:	897
RefSeq ORF: 801	RefSeq ORF:	801
Synonyms: apo(a); HPALP2	Synonyms:	apo(a); HPALP2
Locus ID: 335	Locus ID:	335
UniProt ID: <u>P02647</u> , <u>A0A024R3E3</u>	UniProt ID:	<u>P02647, A0A024R3E3</u>



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	Apolipoprotein A I (APOA1) (NM_000039) Human Mass Spec Standard – PH310762
Cytogenetics:	11q23.3
Summary:	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein. [provided by RefSeq, Dec 2015]
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathway	s: PPAR signaling pathway

## **Product images:**



Coomassie blue staining of purified APOA1 protein (Cat# [TP310762]). The protein was produced from HEK293T cells transfected with APOA1 cDNA clone (Cat# [RC210762]) using MegaTran 2.0 (Cat# [TT210002]).

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