

## Product datasheet for PH320900

### KIAA1967 (CCAR2) (NM\_021174) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	KIAA1967 MS Standard C13 and N15-labeled recombinant protein (NP_066997)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220900
Predicted MW:	102.7 kDa
Protein Sequence:	>RC220900 representing NM_021174 Red=Cloning site Green=Tags(s)

MSQFKRQRINPLPGRNFSGTASTSLLGPPGGLLTPPVATELSQNARHLQGGEKQRVFTGIVTSLHDYFG  
VYDEEVFQLSVVKGRPLPQLGEKVLVKAAYNPQAVPWNAVQVQTL SNQPLLKSPAPPLHVAALGQKQG  
ILGAQPQLIFQPHRIPPLFPQKPLSLFQT SHTLHL SHLNRF PARGPHGRLDQGRSDDYDSKKRKRQAGGE  
PWGAKKPRHDLPPYRVHLTPYTVDSPICDFLELQRRYSLLVPSDFLSVHLSWLSAFPLSQPFSLHHP  
IQQVSEKEAAPDAGAEPITADSDPAYSSKVLSSPGLLELYRCCMLFVDDMAEPRETPEHPLKQIKFLL  
GRKEEEAVLVGGEWSPSLDGLDPQADPQVLVRTAIRCAQAQTGIDL SGCTKWWRF AEFQYLQPGPPRRLQ  
TVVVYLPDVWTIMPTLEEWEALCQQAEEAAPPTQEAQGETEPTQAPDALEQAADTSRRNAETPEATTQ  
QETDIDLPEAPPPLEPAVIARPGCVNLSLHGIVEDRRPKERISFEVMVLAELFLEMLQRDFGYRVYKML  
LSLPEKVVSPPEPEKEEAKEEATKEEAIKEEVVKEPKDEAQNEGPATESEAPLKEDGLLPKPLSSGGE  
EEEKPRGEASEDLCEMALDPELLLLRDDGEEEFAGAKLEDSEVRSVSNQSEMEFSSLQDMPKELDPSAV  
LPLDCLLAFVFFDANWCGYLHRRDLERILLTLGIRLSAEQAKQLVSRVVTQNICQYRSLQYSRQEGLDGG  
LPEEVLFGNLDLLPPPGKSTKPGAAPTEHKALVSHNGSL INVGSLLRQAEQQDSGRLYLENKIHTLELKL  
EESHNRFSATEVTNKTLAEMQELRVRLAEAEETARTAEKRSQQLRLLQELRRRLTPLQLEIQRVVEKA  
DSWVEKEEPAPSN

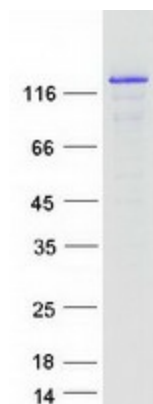
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_066997</a>
RefSeq Size:	4031
RefSeq ORF:	2769
Synonyms:	DBC-1; DBC1; KIAA1967; NET35; p30 DBC; p30DBC
Locus ID:	57805
UniProt ID:	<a href="#">Q8N163</a>
Cytogenetics:	8p21.3
Summary:	<p>Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing; the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions. Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis. Inhibits SUV39H1 methyltransferase activity. As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors. Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress. Regulates the circadian expression of the core clock components NR1D1 and ARNTL/BMAL1. Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation (PubMed:18235501, PubMed:18235502, PubMed:19131338, PubMed:19218236, PubMed:22446626, PubMed:23352644, PubMed:23398316). Represses the ligand-dependent transcriptional activation function of ESR2 (PubMed:20074560). Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed:24415752). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed:21030595). Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway (PubMed:24824780). Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3 (PubMed:25661920). Plays an important role in tumor suppression through p53/TP53 regulation; stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed:25732823). Represses the transcriptional activator activity of BRCA1 (PubMed:20160719). Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (PubMed:25361978).[UniProtKB/Swiss-Prot Function]</p>

**Product images:**

Coomassie blue staining of purified CCAR2 protein (Cat# [TP320900]). The protein was produced from HEK293T cells transfected with CCAR2 cDNA clone (Cat# [RC220900]) using MegaTran 2.0 (Cat# [TT210002]).