

Product datasheet for PH300844

RRP8 (NM_015324) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RRP8 MS Standard C13 and N15-labeled recombinant protein (NP_056139)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200844
Predicted MW:	50.7 kDa
Protein Sequence:	>RC200844 protein sequence Red=Cloning site Green=Tags(s)
	<p>MFEEPEWAEAAPVAAGLGPVISRPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEE RKKKCPKKASFASASAEVGGKGGKCKQKQGPCCSDSEEEVERKKKCHKQALVGSDSAEDKRKRKCQKHA PINSAQHLDNVDQTGPKAWKGSTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNKRRCKNKFQPPQVPDQ APAEAPTEKTEVSPVPRTDSHEARAGALRARMQRLD GARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLY HRGFQSQVKKWPLQPVDRIARDLRQPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCMAQV PLEDESVDVAVFCLSLMGTNIRD FLEEANRVLKPGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLT NSHFFLFDQKTGPPLVGPKAQLSGLQLQPCLYKRR</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_056139
RefSeq Size:	1762
RefSeq ORF:	1368
Synonyms:	KIAA0409; NML



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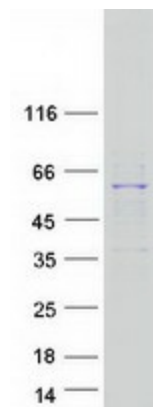
Locus ID: 23378

UniProt ID: [O43159](#)

Cytogenetics: 11p15.4

Summary: Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified RRP8 protein (Cat# [TP300844]). The protein was produced from HEK293T cells transfected with RRP8 cDNA clone (Cat# [RC200844]) using MegaTran 2.0 (Cat# [TT210002]).