

Product datasheet for **RC210375**

CDS1 (NM_001263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDS1 (NM_001263) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDS1
Synonyms:	CDS 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210375 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGAGCTGAGGCACCGGGGAAGCTGCCCGGCCAGGGAAGCGGTGTCGCCACACCGCGAGG
 GAGAGGCGGCCGGCGGCCACCACGAAACCGAGAGCACCAGCGACAAGAAACAGATATTGATGACAGATA
 TGGAGATTTGGATTCCAGAACAGATTCTGATATCCGGAATTCACCATCCTCAGATAGAACCCTGAG
 ATTCTCAAAAAGCTCTATCTGGTTTATCTTCAAGGTGGAAAACTGGTGGATACGTGGAATTCTCACTC
 TAACTATGATCTCGTTGTTTTCTGATCATCTATATGGGATCCTTCATGCTGATGCTTCTTGTCTGGG
 CATCCAAGTGAATGCTCCATGAAATTACACTATAGGTTATAGAGTCTATCATTCTTATGATCTACCA
 TGGTTTAGAACACTAAGTTGGTACTTTCTATTGTGTGAAACTACTTTTTCTATGGAGAGACTGTAGCTG
 ATTATTTTGTACATTTGTTCAAAGAGAAGAACAACCTCAGTTCCCTCATTGCTACCATAGATTTATATC
 ATTTGCCCTCTATCTGGCAGTTTCTGCATGTTTGTACTGAGTTTGGTGAAGAAACATTATCGTCTGCAG
 TTTTATATGTTCCGATGGACTCATGTCACCTTACTGATAACTGCACTCAGTCACACCTTGCATCCAAA
 ATCTGTTTGAAGGCATGATATGGTTCTTGTCCAATATCAAGTGTATCTGCAATGACATAACTGCTTA
 CCTTTTTGGATTTTTTTTTGGGAGAACTCCATTAATTAAGTTGTCTCCTAAAAAGACTTGGGAAGGATTC
 ATTGGTGGTTTCTTTCCACAGTTGTGTTGGATTATTGCTGCCTATGTGTTATCCAAATACCAGTACT
 TTGCTGCCAGTGAATACCGAAGTGATGAACTCCTTCGTGACAGAAATGTGAGCCCTCAGAACCTTT
 CCAGCTTCAGACTTACTCACTCCACCTTTCTAAAGGCAGTCTTGAGACAGGAAAGAGTGAGCTTGAC
 CCTTCCAGATCCACAGCATTGCACTGTCAACCTTTGCATCTTAATTGGCCATTTGGAGGCTTCTTTG
 CTAGTGGATTCAAAGAGCCTTCAAATCAAGGATTTTGAATACCATTCTGGACATGGTGGGATAAT
 GGACAGATTTGATTGTCAGTATTTGATGGCAACTTTGTACATGTGTACATCACAAAGTTTTATAAGGGGC
 CCAAATCCAGCAAAGTGTACAGCAGTTGTTGGTGTCTCAACCTGAACAGCAGTTAAATATATATAAAA
 CCTGAAGACTCATCTCATTGAGAAAGGAATCCTACAACCCACCTTGAAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210375 protein sequence
 Red=Cloning site Green=Tags(s)

MLELRHRGSCPGPREAVSPPHREGAAGGDHETESTSDKETDIDDRYGDLDLSDSDIPEIPPSSDRTPE
 ILKKALSGLSSRWKNWIRGILTLTMSLFFLIYMGSFMLMLLVLGIQVKCFHEIITIGYRVYHSYDLP
 WFRTLWYFLLCVNYFFYGETVADYFATFVQREEQLQLIRYHRFISFALYLAGFCMFVLSLVKKHYRLQ
 FYMFAWTHVTLITVTQSHLVIQNLFEGMIWFLVPISSVICNDITAYLFGFFFRGPLIKLSPKKTWEGF
 IGGFFSTVVFGLAAYVLSKYQYFVCPVEYRSDVNSFVTECEPSELFQLQTYSLPPFLKAVLRQERVSLY
 PFQIHSIALSTFASLIGPFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHYIITSFIRG
 PNP SKVLQQLLVLQPEQQLNIYKTLKTHLIEKGILQPTLKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6379_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001263

ORF Size: 1383 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001263.4](#)
RefSeq Size: 4546 bp

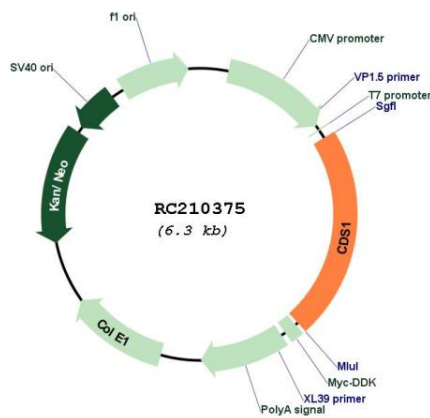
RefSeq ORF: 1386 bp

Locus ID: 1040

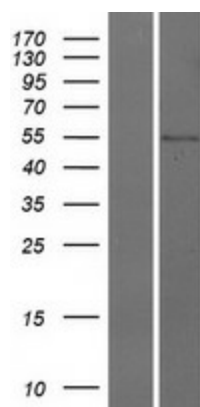
UniProt ID: [Q92903](#)
Cytogenetics: 4q21.23

Domains:	CTP_transf_1
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	53.3 kDa
Gene Summary:	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210375



Western blot validation of overexpression lysate (Cat# [LY420042]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).