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Product datasheet for RC206807

CDS2 (NM_003818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDS2 (NM_003818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC206807 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGAGCTGAGGCAGAGGGTGGCCCATGAGCCGGTTGCGCCACCCGAGGACAAGGAGTCAGAGTCAG
AAGCAAAGGTAGATGGAGAGACTGCATCGGACAGTGAGAGCCGGGCAGAATCCGCACCCCTGCCAGTCTC
TGCAGATGATACCCCGGAGGTCCTCAATAGGGCCCTTTCCAACTTGTCTTCAAGATGGAAGAACTGGTGG
GTGAGAGGCATCCTGACTTTGGCCATGATTGCATTTTTCTTCATCATCATTTACCTGGGACCAATGGTTT
TGATGATAATCGTGATGTGCGTTCAGATTAAGTGTTTCCATGAGATAATCACTATTGGCTACAACGTCTA
CCACTCATATGATCTGCCCTGGTTCAGGACGCTCAGCTGGTACTTTCTCCTGTGTGTAAACTATTTCTTC
TATGGTGAGACAGTGACGGATTACTTCTTCACCCTGGTCCAGAGAGAAGAGCCTTTGCGGATTCTCAGTA
AATACCACCGGTTCATTTCCTTTACTCTCTATCTAATAGGATTCTGCATGTTTGTACTGAGTCTGGTCAA
GAAGCATTATCGACTGCAGTTCTACATGTTTGGCTGGACCCATGTGACATTGCTGATTGTTGTAACACAG
TCACATCTTGTTATCCACAACCTATTTGAAGGAATGATCTGGTTCATTGTCCCCATATCTTGTGTGATCT
GTAATGACATCATGGCCTATATGTTTGGCTTTTTCTTTGGTCGGACCCCACTCATCAAGCTGTCCCCGAA
GAAGACCTGGGAAGGCTTCATTGGGGGCTTCTTTGCTACTGTGGTGTTTGGCCTTCTGCTGTCCTATGTG
ATGTCCGGGTACAGATGCTTTGTCTGCCCTGTGGAGTACAACAATGACACCAACAGCTTCACTGTGGACT
GTGAGCCCTCGGACCTGTTTCGCCTGCAGGAGTACAACATTCCTGGGGTGATCCAGTCAGTCATTGGCTG
GAAAACGGTCCGGATGTACCCCTTCCAGATTCACAGCATCGCTCTCTCCACCTTTGCCTCGCTCATTGGC
CCCTTTGGAGGATTCTTCGCAAGTGGATTCAAACGAGCCTTTAAAATCAAAGACTTTGCCAATACCATTC
CTGGCCATGGAGGCATCATGGATCGCTTTGACTGCCAGTATCTGATGGCCACCTTTGTCAATGTATACAT
CGCCAGTTTTATCAGAGGCCCTAACCCAAGCAAACTGATTCAGCAGTTCCTGACTTTACGGCCAGATCAG
CAGCTCCACATCTTCAACACGCTGCGGTCTCATCTGATCGACAAAGGGATGCTGACATCCACCACAGAGG
ACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206807 protein sequence
Red=Cloning site Green=Tags(s)

MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLNRALSNLSSRWKNWW
VRGILTLAMIAFFFIIIYLGPMVLMIIVMCVQIKCFHEIITIGYNVYHSYDLPWFRTLSWYFLLCVNYFF
YGETVTDYFFTLVQREEPLRILSKYHRFISFTLYLIGFCMFVLSLVKKHYRLQFYMFGWTHVTLLIVVTQ
SHLVIHNLFEGMIWFIVPISCVICNDIMAYMFGFFFGRTPLIKLSPKKTWEGFIGGFFATVVFGLLLSYV
MSGYRCFVCPVEYNNDTNSFTVDCEPSDLFRLQEYNIPGVIQSVIGWKTVRMYPFQIHSIALSTFASLIG
PFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVYIASFIRGPNPSKLIQQFLTLRPDQ
QLHIFNTLRSHLIDKGMLTSTTEDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6327_d12.zip

Restriction Sites: SgfI-MluI

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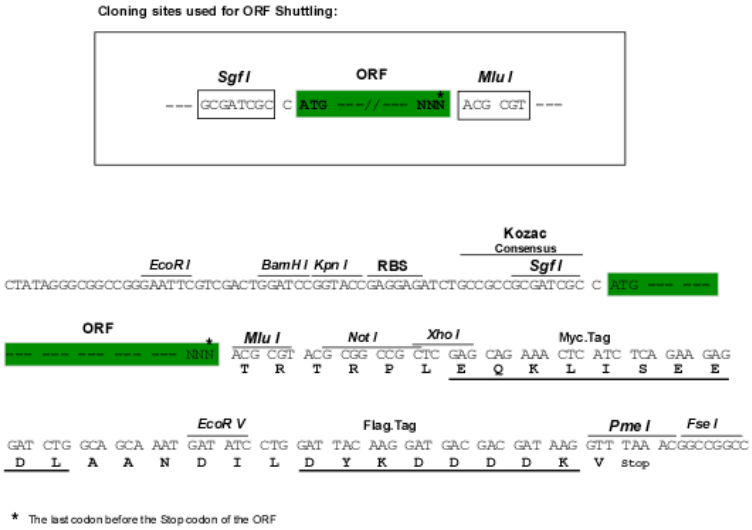
Cloning Scheme:



ACCN: NM_003818

ORF Size: 1335 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_003818.4

RefSeq Size: 9323 bp

RefSeq ORF: 1338 bp

Locus ID: 8760

UniProt ID: O95674

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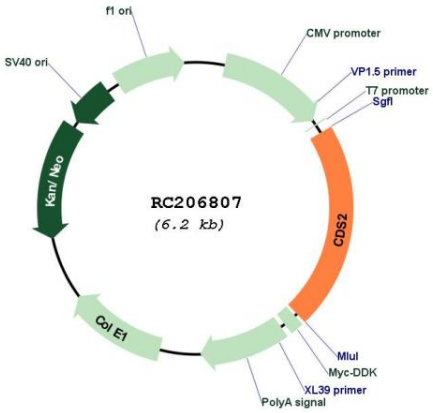
Cytogenetics:	20p12.3
Domains:	CTP_transf_1
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	51.4 kDa
Gene Summary:	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream 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 RC206807

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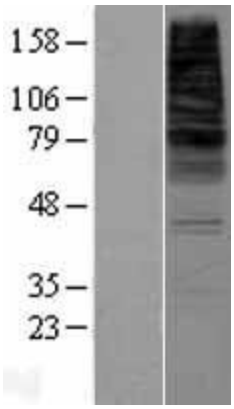

Western blot validation of overexpression lysate (Cat# [LY418419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206807 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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