

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGAGCTGAGGCAGAGGGTGGCCCATGAGCCGGTTGCGCCACCCGAGGACAAGGAGTCAGAGTCAG
 AAGCAAAGGTAGATGGAGAGACTGCATCGGACAGTGAGAGCCGGCAGAAATCCGCACCCCTGCCAGTCTC
 TGCAGATGATACCCCGGAGGTCCTCAATAGGGCCCTTTCCAACCTGTCTTCAAGATGGAAGAAGTGGTGG
 GTGAGAGGCATCCTGACTTTGGCCATGATTGCATTTTTCTTCATCATCATTTACCTGGGACCAATGGTTT
 TGATGATAATCGTGATGTGCGTTTCAAGTAAAGTGTTCATGAGATAATCACTATTGGCTACAACGTCTA
 CCACTCATATGATCTGCCCTGGTTCAGGACGCTCAGCTGGTACTTTCTCCTGTGTGTAACATTTCTTC
 TATGGTGAGACAGTGACGGATTACTTCTCACCTGGTCCAGAGAGAAGAGCCTTTGCGGATTCTCAGTA
 AATACCACCGGTTCAATTTCTTTACTCTCTATCTAATAGGATTCTGCATGTTTGTACTGAGTCTGGTCAA
 GAAGCATTATCGACTGCAGTTCTACATGTTTGGCTGGACCATGTGACATTGCTGATTGTTGAACACAG
 TCACATCTTGTTATCCACAACCTATTTGAAGGAATGATCTGGTTCATTGTCCCATATCTTGTGTGATCT
 GTAATGACATCATGGCCTATATGTTTGGCTTTTTCTTTGGTCCGACCCCACTCATCAAGCTGTCCCGAA
 GAAGACCTGGGAAGGCTTCATTGGGGGCTTCTTTGCTACTGTGGTGTGGCCTTCTGCTGTCTATGTG
 ATGTCCGGGTACAGATGCTTTGTCTGCCCTGTGGAGTACAACAATGACACCAACAGCTTCACTGTGGACT
 GTGAGCCCTCGGACCTGTTTGCCTGCAGGAGTACAACATTCCTGGGGTATCCAGTCAGTCATTGGCTG
 GAAAACGGTCCGATGTACCCCTCCAGATTACAGCATCGCTCTCTCCACCTTTGCCTCGCTCATTGGC
 CCCTTTGGAGGATTCTTCGAAGTGGATTCAAACGAGCCTTTAAAATCAAAGACTTTGCCAATACCATT
 CTGGCCATGGAGGCATCATGGATCGCTTTGACTGCCAGTATCTGATGGCCACCTTTGTCAATGTATACAT
 CGCCAGTTTTATCAGAGGCCCTAACCCAAGCAAAGTATTGAGCAGTTCCCTGACTTTACGGCCAGATCAG
 CAGCTCCACATCTTCAACACGCTGCGGTCTCATCTGATCGACAAAAGGGATGCTGACATCCACCACAGAGG
 ACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLNRALSNLSSRWKNWW
 VRGILTLAMIAFFFIIIYLGPMVLMIIVMCVQIKCFHEIITIGYNYHSYDLPWFRTL SWYFLLCVNYFF
 YGETVTDYFFTLVQREEPLRILSKYHRFISFTLYLIGFCMFVLSLVKKHYRLQFYMFGWTHVTLIIVVTQ
 SHLVIHNLFEGLIWFIVPISCVICNDIMAYMFGFFGRTPLIKLSPKKTWEGFIGGFFATVVFGLLSYV
 MSGYRCFVCPVEYNNDTNSFTVDCEPSDLFRLQEYNIPGVIQSVIGWKTVMYPFQIHSIALSTFASLIG
 PFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVIASFIRGPNPSKLIQQFLTLRPDQ
 QLHIFNTRLRSHLIDKGLTSTTEDE

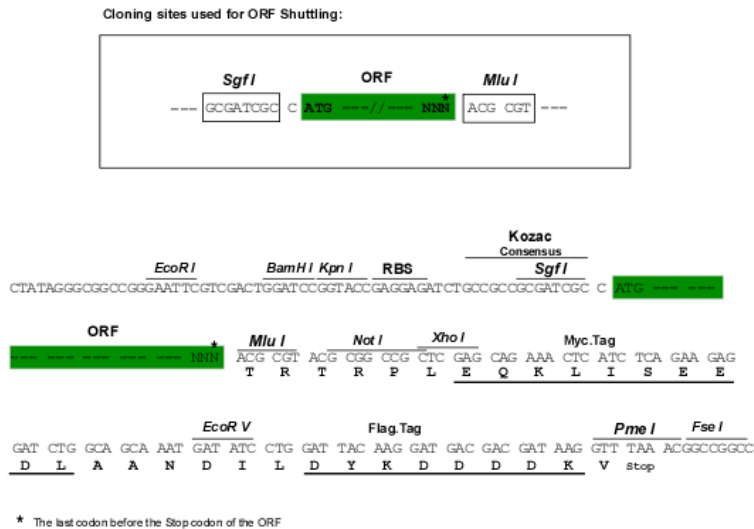
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003818.4](#)

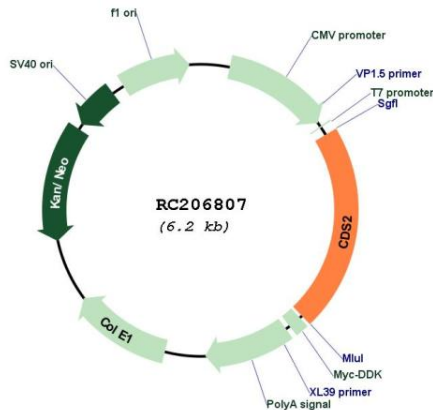
RefSeq Size: 9323 bp

RefSeq ORF: 1338 bp

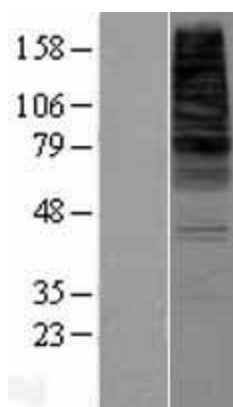
Locus ID: 8760

UniProt ID:	<u>O95674</u>
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



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