

Product datasheet for **SC119345**

CDS1 (NM_001263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDS1 (NM_001263) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDS1
Synonyms:	CDS 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC119345 sequence for NM_001263 edited (data generated by NextGen Sequencing)

```

ATGTTGGAGCTGAGGCACCGGGGAAGCTGCCCCGCCCCAGGGAAGCGGTGTCGCCGCCA
CACCGGAGGGAGAGGGCGCCGGCGGCCACGAAACCGAGAGCACCAGCGACAAAGAA
ACAGATATTGATGACAGATATGGAGATTGGATTCCAGAACAGATTCTGATATCCGGAA
ATTCCACCATCCTCAGATAGAACCCTGAGATTCTCAAAAAGCTCTATCTGGTTTATCT
TCAAGGTGAAAAAAGCTGGTGGATACGTGGAATTCTCACTCTAACTATGATCTCGTTGTTT
TTCTGATCATCTATATGGGATCCTTCATGCTGATGCTTCTTGTCTGGGCATCCAAGTG
AAATGCTTCCATGAAATTATCACTATAGGTTATAGAGTCTATCATTCTTATGATCTACCA
TGGTTTAGAACAATAAGTTGGTACTTTCTATTGTGTGTAACACTTTTTCTATGGAGAG
ACTGTAGCTGATTATTTGCTACATTTGTTCAAAGAGAAGAACAACCTCAGTTCCCTCATT
CGCTACCATAGATTTATCATTGCCCCTATCTGGCAGGTTTCTGCATGTTTGTACTG
AGTTTGGTGAAGAAACATTATCGTCTGCAGTTTATATGTTTCGCATGGACTCATGCACT
TACTGATAACTGTCACCTGACACCTTGCATCCAAAATCTGTTTGAAGGCATGATA
TGGTTCCTTGTCCAATATCAAGTGTATCTGCAATGACATAACTGCTTACCTTTTTGGA
TTTTTTTTGGGAGAAGCTCCATTAATTAAGTTGTCTCCTAAAAAGACTTGGGAAGGATTC
ATTGGTGGTTTCTTTCCACAGTTGTGTTGGATTCAATTGCTGCCTATGTGTTATCCAAA
TACCAGTACTTTGCTGCCAGTGGAAATACCGAAGTGATGTAACCTCTTCGTGACAGAA
TGTGAGCCCTCAGAACTTTCCAGCTTCAGACTTACTCACTTCCACCCTTTCTAAAGGCA
GTCTTGAGACAGGAAAGAGTGAGCTTGTACCCTTTCCAGATCCACAGCATTGCACGTGCA
ACCTTTGCATCTTTAATTGGCCATTTGGAGGCTTCTTTGCTAGTGGATTCAAAGAGCC
TTCAAAATCAAGGATTTGCAAAATACCATTCTGGACATGGTGGGATAATGGACAGATTT
GATTGTCAGATTTGATGGCAACTTTTGTACATGTGACATCACAAGTTTATAAGGGGC
CCAAATCCAGCAAAGTGCTACAGCAGTTGTTGGTGCTTCAACCTGAACAGCAGTTAAAT
ATATATAAAACCTGAAGACTCATCTCATTGAGAAAGGAATCCTACAACCCACCTTGAAG
GTATAA
    
```

Clone variation with respect to NM_001263.3

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_001263 unedited
NTTGTTCAAATTTTGNATACGACTCACTATAGGGCGGCCGNAATTTCGCACGAGGGGC
AACCGGAGGCCGCGTCTCCGCTTCTCTGCTCGCGCCTGGCGCCCGGAGCCTGCCCGGA
CCTCCGCCGAGCCGCGCTCGCTGCAGGCGGCCTCGAGCGCTCTCTCGTTGATGCCGTTT
TGGAGGTGACCGGCGCGGCGCCGCTCTATGGTGGGGCCGCGTTAGTGGCTGCGGCTCCG
CGGGACTCCAGGGCGCGGCTGCGAGGTGGCGGGCGCCCCGCCTGCAGAACCTGCTTGC
AGCTCAGGTTTCGGGGTGCTTGAGGAGGCCGCCACGGCAGCGGGAGCGGAAGATGTTG
GAGCTGAGGCACCGGGGAAGCTGCCCCGCCCCAGGGAAGCGGTGTCGCCGCCACCCGC
GAGGGAGAGCGCGCCGGCGGCCACGAAACCGAGAGCACAGCGACCAAGACACCAGA
TATTGATGACAGATATGGAGATTGGATTCCAGAACAGATTCTGATATCCGAAATTC
ACCATCTCACATAGAACCCTGAGATTCTCAAAAAGCTCTATCTGGTTTATCCTCCAA
GCGGATAAACTGCCGGATACGTGGAATTCTCACTCCTAACTATGATCTCGCTGTTTTTCC
TGAACATCTATATGGGGATCCTTCATGCTGATGCTTCTTGGTCTGGGCTCCAGTGAAAT
GCTTCCCTGAAATATCCCATAGGTTATAGAGTCTATCATTCTATGAACCACCATGGTC
TAGAACACTTAATTGGTACCTTTTATTCCGGTGTAACCCACCTTTTCTATGGAAAGACTGA
ACCTGACTATTTGCCACCTTTGCTCAAAGAGAAGACCACCTTAGTTCCTTCCCTACCA
T
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001263 unedited CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATCCAACCTAAGCCCTTTA GAAAGTACTCCAGACTACATGAGGAGGAAGTGCAGGAGAAGTACTTCTATTGTGCCTT GCATAAAACATTTTGCTAAAATTTAAAGCAGCTCCAAGTGCAAAAGTAAATATTTGTGCA AAAAGGCACACTGCCAGGTGCAATCTTAAACATCGTCAACTTACTCATTATATAGTGTT TGACTCTTTTCAATACCAGTCTTTTAAATTATGAAACCTAGCAAGTAAGGGGAAGGAAGT TCACATCAGAAAATACACTTTAGAAAAGGTACAAGACATTTTGCTGGCAATTTGCTACTT ATTTTCATAACATAGATCAAGTAAGTGTTTGTTAAATATTCACAGTAATTTTCAGAGAGAAA CATATCTCCAAAACCTAACCTATTGCATTTTTAACTATTTTTCTGTACAATTTATAAAA CATCTGTCAGTGTTTTCTGAATAATTCCTTCTTGTGTCAGTCTTCCCTCTCTGGATCCAG TTATACCTTCAAGGTGGGTTGTAGGATTCCTTCTCAATGAGATGAGTCTTCAGGGTTTT ATATATATTTAACTGCTGTTTCAAGTTGAAGCACCAACAACCTGCTGTAGCACTTTGCTGGG ATTTGGGCCCTTATAAACTTGTGATGTACACATGTACAAAAGTTGCCATCAAATACTG ACAATCAAATCTGTCCATTATCCCACCATGTCCAGAAATGGTATTTGCAAAATCCTTGAT TTTGAAGGCTCTTTGATCCACTAGNCAAGAGCCTNCAATGGGCCAATTAGATGCAAAG GTGACATGCATGCTGTGATCTGGAAGGGTACAGCTACTCTTTCTGTCTAGACTGCCTTAA AAGGGTGGAGGAGTAATCTGAGCTGAAAAGTTGAGGCTCCATCTGCCAAGAGTACATAC TCGGATCCCTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_001263
Insert Size:	2150 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_001263.2</u> , <u>NP_001254.2</u>
RefSeq Size:	2374 bp
RefSeq ORF:	1386 bp
Locus ID:	1040
UniProt ID:	<u>Q92903</u>
Cytogenetics:	4q21.23
Domains:	CTP_transf_1

Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
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]