

Product datasheet for **SC324271**

CDS2 (NM_003818) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDS2 (NM_003818) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003818.2
 GCTCCGGCGGCTTCGCTGCTAGCTCGCGGCGACGTCGGGCCGATTTTCCCAGGATGACAG
 AGCTGAGGCAGAGGGTGGCCATGAGCCGGTTGCGCCACCCGAGGACAAGGAGTCAGAGT
 CAGAAGCAAAGGTAGATGGAGAGACTGCATCGGACAGTGAAGCCGGGCAGAATCCGCAC
 CCCTGCCAGTCTCTGCAGATGATACCCCGGAGGTCCTCAATAGGGCCCTTCCAACCTTGT
 CTTCAAGATGGAAGAACTGGTGGGTGAGAGGCATCCTGACTTTGGCCATGATTGCATTTT
 TCTTCATCATCTTTACCTGGGACCAATGGTTTTGATGATAATCGTGATGTGCGTTCAGA
 TTAAGTGTTCATGAGATAATCACTATTGGCTACAACGCTACCACTCATATGATCTGC
 CCTGGTTCAGGACGCTCAGCTGGTACTTTCTCCTGTGTGTAACACTATTTCTTCTATGGT
 AGACAGTGACGGATTACTTCTCACCTGGTCCAGAGAGAAGAGCCTTTGCGGATTCTCA
 GTAAATACCACCGGTTTCTTTACTCTCTATCTAATAGGATTCTGCATGTTTGTAC
 TGAGTCTGGTCAAGAAGCATTATCGACTGCAGTTCTACATGTTTGGCTGGACCCATGTGA
 CATTGCTGATTGTGTAACACAGTCACATCTTGTATCCACAACCTATTTGAAGGAATGA
 TCTGGTTCATTGTCCCATATCTTGTGTGATCTGTAATGACATCATGGCCTATATGTTT
 GCTTTTTCTTTGGTCCGACCCACTCATCAAGCTGTCCCGAAGAAGACCTGGGAAGGCT
 TCATTGGGGGCTCTTTGCTACTGTGGTGTGGCCTTCTGCTGCCTATGTGATGCCG
 GGTACAGATGCTTTGCTGCCCTGTGGAGTACAACAATGACACCAACAGCTTCACTGTGG
 ACTGTGAGCCCTCGGACCTGTTTCGCTGCAGGAGTACAACATTCCTGGGGTGATCCAGT
 CAGTCATTGGCTGGAAAACGGTCCGGATGTACCCCTTCCAGATTCACAGCATCGCTCTCT
 CCACCTTTGCCTCGCTCATTGGCCCTTTGGAGGATTCTTCGCAAGTGGATTCAAACGAG
 CCTTTAAAATCAAAGACTTTGCCAATACCATTCTGGCCATGGAGGCATCATGGATCGCT
 TTGACTGCCAGTATCTGATGGCCACCTTTGTCAATGTATACATCGCCAGTTTTATCAGAG
 GCCCTAACCCAAGCAAACCTGATTACAGAGTTCTGACTTTACGGCCAGATCAGCAGCTCC
 ACATCTTCAACACGCTCGGCTCATCTGATCGACAAAGGGATGCTGACATCCACCACAG
 AGGACGAGTAGGGGCCACCCAGGCCAGGAGAACAGGAACAGAAGTGAAGAGGGGAGGT
 CTCCAAGAAATCCCTGCTTGGAGCTGCAGAAGGGTTGCCTTCTGTAGGTGGAGGAATGG
 AGGCTTACTAACCAGGTAAGCCTTCTATGCATCCACACCAAAATCCTGCAGAATGTAAGT
 AAGCTCTGCTTTATAAGATGGGTTACCTTCATCGCAGACTGAAAGTTTCAGTTTTTATT
 TTTTTCAGAAAGCACGAAAAATTTTATAATAGTCTGGAGAAAAACACACTGTAATAT
 TTCAAGTGTATGCAGTAGAATGTACTGTAAGTACTGAGCCCTTTCCACATGTCTAGGCTCCA
 ATGTCTCTGTAGTCCACCTAAGTGTGTTTTAGGGACAATGCCATCCATGTTTGTG
 CTGTAGACTTGTGCTGCTGAATCCTTTCTGGGACTTTCTCATCGGGCAGGGAGCAGAG
 GGCTTCTCGTTCATGCACCCCTTGCCTGAACACCCATGTAGCTGCTGTGTGTGATATA
 TTAAGTCTTAAGAGGAGTGTGTGTGCTGTGTTGTTTTAAAGTCACTTATTTCTTACAG
 TGATTTCAATTGCACCATGACTTCTTCACTAAAACCACAAAGTCTGCTTAAACATATGG
 AAAACCTAACCTGATTAGAGCCTTGACTATTTGAAGATTAATGCACACTTTTTATATA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003818

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	NM_003818.2 , NP_003809.1
RefSeq Size:	2711 bp
RefSeq ORF:	1338 bp
Locus ID:	8760
UniProt ID:	O95674
Cytogenetics:	20p12.3
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]