

Product datasheet for **SC319343**

PISD (NM_014338) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PISD (NM_014338) Human Untagged Clone
Tag:	Tag Free
Symbol:	PISD
Synonyms:	DJ858B16; dj858B16.2; LIBF; PSD; PSDC; PSSC
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_014338.3
 GGAAGCTGGAGCCACCTGCGGCTCTGAGAGGGACAGACGGTGCTCAGCCTGTGCTCTGGG
 GCAAAGCTGGATTCAATTTTCTCCCTGGCGATCTTCTGGGGCCCACAGCTGGTGATATGG
 AGGCACTGACACCCTGGTCTCGGCGCTTGTGTTTAGAAGAGGCAGAACAGTGATAAAGACA
 AGGATCTAAATGGGCAAGGACGCCCTGCCCTACTGGGCTCACTGGCAGCCCTGACCCTC
 TATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGGCCACCAACC
 AGCCTCGCAGAGGCAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGG
 GAAGGGGAGGAAAGAGGAAAACAAGGGAGTGATCGAGTGAGCCTCGCCCGCCCTCCCT
 GCGCCGGCCCATGATGTGTGAGTCAAGAGCGCGCAAGGACCAGAGCTCCGCGCGCGAA
 ATGTTGCACTTCCCCAGCTGGCCCTGAGGCGGAGGCTGGGCGAGCTGAGCTGCATGTC
 CAGACCCGCTCTGAAACTGCGCTCCTGGCCCTTGACCGTCTCTACTACCTCCTGCCCTT
 CGGCGCCCTCAGACCGCTCAGCCGGGTGGGATGGAGGCCCGTAAGCAGGGTGGCTTTGTA
 CAAGTCAGTGCCAACGCGCTTGTGTACGGGCTGGGGTGCCTCAATCAGGTGGAGCT
 GCCCACTGGCTGCGCAGGCCCTACAGCCTGTACATCTGGACGTTTGGGGTGAACAT
 GAAAGAGGCCGCTGTGGAGGACCTGCATCACTACCGCAACCTCAGCGAGTTCTCCGGCG
 CAAGCTGAAGCCGAGGCCCGCCCTGTCTGTGGCTGCACAGCGTGATTAGCCCATCGGA
 TGGAAAGATCCTCAACTTTGGGCAGGTGAAGAACTGTGAGGTGGAGCAGGTAAAGGGGT
 CACCTACTCCCTGGAGTCGTTTCTGGGCCCGCTATGTGCACAGAGGACCTGCCCTTCCC
 ACCAGCCGCGTGTGACTCCTTCAAGAACCAGCTGGTCAACCGGAAGGGAATGAGCT
 CTACTGTGTGTCATCTACTGGCCCTGGGGACTACCACTGTTCCACTCCCCACCGA
 CTGGACTGTGCCACCGGCCCACTTCCCAGGCTCCCTGATGTGAGTGAACCTGGCAT
 GGCTCGCTGGATCAAAGAGCTCTTCTGCCATAACGAGCGGGTGGTCTGACGGGGGACTG
 GAAACTGGCTTCTTCTACTGACAGTGTGGGGCCACCAACGTGGGCTCCATTCCGAT
 CTACTTTGACCGGACCTGCACACAAACAGCCCAAGGCACAGCAAGGGCTCCTACAATGA
 CTTGAGCTTCGTGACGCACACCAATAGAGAGGGCGTCCCATGCGTAAGGGCGAGCACCT
 GGGCGAGTTCAACCTGGGCTCCACCATCGTGTGTCATCTTCCAGGCCCCCAAGGACTTCAA
 TTTCCAGCTGAAAACAGGACAGAAAATCCGCTTTGGGGAAGCCCTGGGCTCGCTTAGAG
 TCTCTTCTGATTATGGCTGCTAAGGGATCTTTTCCAAACAGAGTGAGGGTCTTTTCAA
 GAGGGAGGCCATGAGGCCATCCAGGTAAGGGCCTGCCTCAGCGTGGTGGGAGTCTGAC
 CAGGTAGGACTTGAATGATTGCGCTACCACCTGTTCCAGAGGTGCAGACAAGAGGTGGCG
 AGAGCCCCATCATGCCCTCAACCTATCCCGTCTCTTCTGCCTACAAATAAAAAGTGCA
 GGCTGGAATGATCTCAGTCACATTTGGATCTTTTTAAACTGTATAGACGGAAGAGCCT
 GCATTCCTGACCGAACCTTCAGTTGGTCTCGGTTGTCGTTTTTTCTTGCTCCTCCCC
 CCATCACCTGAGCTGTTTTCTGTTGGCCCTTTTGTTTTTGGCCTTAACGCTCCTGCTG
 CACAGGGTGAGGTGCCTCCTTGGCACAGACTGTGGATGCCTCCTCCCCAGCAGAGCCACA
 CAGCCTTCGTGACAACTGCTTCCGTTCCACATTCACCTCATCTGCTTTTAGAAAAA
 GCAGTCTTTGTGCTTGTGGCTGAACGCATACCCTGGACTCTGCTAGTGTCTTCTGAGGA
 CACTGATGACACTGATTAATGATACAGACCTTTGCAGGACCTGATGAGTGACCTTCTGG
 AGCTGGCCAGTCTCTGCAGCAGGCAAGACCAATCAATCACTGAACCTGCCTCATGGCA
 CCAGAGTGAACAGGGCAGGCAGGTAGTAGGCCAGCTGGGAAAATGGGAGAGTTCCTGTC
 CCCCTCCACATATCCCTACATGAAATATGGGAAAGTTGCTGCTATTGATTAGGGTCTGT
 CTTGGAGGCAGAGGACCTTGGTGGATAGTTGGTCACTGCCTGGAAAACCTGTCCAGTT
 TATCAGGAACGCAGGCCCTGGGGAGCCCCAGTGGCGGGACAGGGCCAGATTTTATGTTG
 ACCCTGGGGATGCTGTGAATTTCTCCTGCAGGAGAGACATCATTGAATTTTTTCAACTGT
 ATCAGTAGCACAGTATTTTTGTATGAAAAGTGGGAGACTTCTGAACAGTAATTCATTTAA
 TTGCAAAGCATTTTGAATAAAAAAATCAAACCTAAAAAATAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014338

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_014338.3](#), [NP_055153.1](#)

RefSeq Size: 2693 bp

RefSeq ORF: 1128 bp

Locus ID: 23761

UniProt ID: [Q9UG56](#)

Cytogenetics: 22q12.2

Domains: PS_Dcarboxylase

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

Gene Summary: The protein encoded by this gene catalyzes the conversion of phosphatidylserine to phosphatidylethanolamine in the inner mitochondrial membrane. The encoded protein is active in phospholipid metabolism and interorganelle trafficking of phosphatidylserine. [provided by RefSeq, May 2016]

Transcript Variant: This variant (5), as well as variants 6, 7, 8, and 9, encodes isoform d.