OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC327247

DDHD1 (NM_001160148) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDHD1 (NM_001160148) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDHD1
Synonyms:	iPLA1alpha; PA-PLA1; PAPLA1; SPG28
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001160148, the custom clone sequence may differ by one or more nucleotides

ATGAATTACCCGGGCCGCGGGTCCCCACGGAGCCCCGAGCATAACGGCCGAGGCGGCGGC
GGCGGCGCCTGGGAGCTGGGCTCAGACGCGAGGCCAGCGTTCGGCGGCGGCGTCTGCTGC
TTCGAGCACCTGCCCGGCGGGGACCCGGACGACGGCGACGTGCCCCTGGCCCTGCTGCGC
GGGGAACCCGGGCTGCATTTGGCGCCGGGCACCGACGACCACAACCACCACCTCGCGCTG
GACCCCTGCCTCAGTGACGAGAACTATGACTTCAGCTCCGCCGAGTCGGGCTCCTCGCTG
CGCTACTACAGCGAGGGTGAGAGCGGCGGCGGCGGCAGCTCCTTGTCGCTGCACCCGCCG
CAGCAGCCTCCGCTGGTCCCGACGAACTCGGGGGGCGGCGGCGCGACAGGAGGGTCCCCC
GGGGAAAGGAAACGTACCCGGCTTGGCGGCCCGGCGGCCCGGCACCGCTATGAGGTAGTG
ACGGAGCTGGGCCCGGAGGAGGTACGCTGGTTCTACAAGGAGGACAAGAAGACCTGGAAG
CCCTTCATCGGCTACGACTCGCTCCGCATCGAGCTCGCCTTCCGGACCCTGCTGCAGACC
ACGGGTGCCCGGCCCCAGGGCGGGGACCGGGACGGCGACCATGTGTGCTCCCCCACGGGC
CCAGCCTCCAGTTCCGGAGAAGATGACGATGAGGACCGCGCCTGCGGCTTCTGCCAGAGT
ACGACGGGGCACGAGCCGGAGATGGTGGAGCTTGTGAACATCGAGCCTGTGTGCGTGCGG
GGCGGCCTCTACGAGGTGGATGTGACCCAAGGAGAGTGCTACCCGGTGTACTGGAACCAG
GCTGATAAAATACCAGTAATGCGTGGACAGTGGTTTATTGACGGCACTTGGCAGCCTCTA
GAAGAGGAAGAAAGTAATTTAATTGAGCAAGAACATCTCAATTGTTTTAGGGGCCAGCAG
ATGCAGGAAAATTTCGATATTGAAGTGTCAAAATCCATAGATGGAAAAGATGCTGTTCAT
AGTTTCAAGTTGAGTCGAAACCATGTGGACTGGCACAGTGTGGATGAAGTATATCTTTAT
AGTGATGCAACAACATCTAAAATTGCAAGAACAGTTACCCAAAAACTGGGATTTTCTAAA
GCATCAAGTAGTGGTACCAGACTTCATAGAGGTTATGTAGAAGAAGCCACATTAGAAGAC
AAGCCATCACAGACTACCCATATTGTATTTGTTGTGCATGGCATTGGGCAGAAAATGGAC
CAAGGAAGAATTATCAAAAATACAGCTATGATGAGAGAAGCTGCAAGAAAAATAGAAGAA
AGGCATTTTTCCAACCATGCAACACATGTTGAATTTCTGCCTGTTGAGTGGCGGTCAAAA
CTTACTCTTGATGGAGACACTGTTGATTCCATTACTCCTGACAAAGTACGAGGTTTAAGG
GATATGCTGAACAGCAGTGCAATGGACATAATGTATTATACTAGTCCACTTTATAGAGAT
GAACTAGTTAAAGGCCTTCAGCAAGAGCTGAATCGATTGTATTCCCTTTTCTGTTCTCGG
AATCCAGACTTTGAAGAAAAAGGGGGTAAAGTCTCAATAGTATCACATTCCTTGGGATGT
GTAATTACTTATGACATAATGACTGGCTGGAATCCAGTTCGGCTGTATGAACAGTTGCTG
CAAAAGGAAGAAGAGTTGCCTGATGAACGATGGATGAGCTATGAAGAACGACATCTTCTT
GATGAACTCTATATAACTAAACGACGGCTGAAGGAAATAGAAGAACGGCTTCACGGATTG
AAAGCATCATCTATGACACAAACACCTGCCTTAAAATTTAAGGTTGAGAATTTCTTCTGT
ATGGGATCCCCATTAGCAGTTTTCTTGGCGTTGCGTGGCATCCGCCCAGGAAATACTGGA
AGTCAAGACCATATTTTGCCTAGAGAGATTTGTAACCGGTTACTAAATATTTTTCATCCT
ACAGATCCAGTGGCTTATAGATTAGAACCATTAATACTGAAACACTACAGCAACATTTCA
CCTGTCCAGATCCACTGGTACAATACTTCAAATCCTTTACCTTATGAACATATGAAGCCA
AGCTTTCTCAACCCAGCTAAAGAACCTACCTCAGTTTCAGAGAATGAAGGCATTTCAACC
ATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCCGACACTATGGAGAATCTATAACA
AATATAGGCAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTGGAGGAATG
TTGTTCTCAAGATTTGGACGTTCATCTACAACACAGTCATCTGAAACATCAAAAGACTCA
ATGGAAGATGAGAAGAAGCCAGTTGCCTCACCTTCTGCTACCACCGTAGGGACACAGACC
CTTCCACATAGCAGTTCTGGCTTCCTCGATTCTGCATATTTCAGACTTCAAGAATCGTTC
TTTAATCTCCCACAACTTCTTTTTCCGGAAAATGTAATGCAGAATAAAGATAATGCCCTC
GTGGAGTTGGATCACAGGATTGATTTTGAACTCAGAGAAGGCCTTGTGGAGAGCCGCTAT
TGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTTCTT
TTAACCTTCATGTATAAACATGAGCACGATGATGATGCAAAACCCAATTTAGATCCAATC

Restriction Sites: Please inquire

ACCN: NM_001160148

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:	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_001160148.1, NP_001153620.1
RefSeq Size:	12969 bp
RefSeq ORF:	2703 bp
Locus ID:	80821
UniProt ID:	Q8NEL9
Cytogenetics:	14q22.1

Gene Summary: This gene is a member of the intracellular phospholipase A1 gene family. The protein encoded by this gene preferentially hydrolyzes phosphatidic acid. It is a cytosolic protein with some mitochondrial localization, and is thought to be involved in the regulation of mitochondrial dynamics. Overexpression of this gene causes fragmentation of the tubular structures in mitochondria, while depletion of the gene results in mitochondrial tubule elongation. Deletion of this gene in male mice caused fertility defects, resulting from disruption in the organization of the mitochondria during spermiogenesis. In humans, mutations in this gene have been associated with hereditary spastic paraplegia (HSP), also known as Strumpell-Lorrain disease, or, familial spastic paraparesis (FSP). This inherited disorder is characterized by progressive weakness and spasticity of the legs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]
Transcript Variant: This variant (3) includes an alternate in-frame coding exon in the 3' coding region, compared to variant 1. The encoded isoform (c) is longer and differs at an amino acid in the C-terminal region compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.