

Product datasheet for **SC327240**

DDHD1 (NM_001160147) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDHD1 (NM_001160147) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDHD1
Synonyms:	iPLA1alpha; PA-PLA1; PAPLA1; SPG28
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001160147, the custom clone sequence may differ by one or more nucleotides

```

ATGAATTACCCGGGCGCGGGTCCCCACGGAGCCCCGAGCATAACGGCCGAGGCGGCGGC
GGCGGCGCCTGGGAGCTGGGCTCAGACGCGAGGCCAGCGTTTCGGCGGCGGCGTCTGCTGC
TTCGAGCACCTGCCCGGCGGGGACCCGGACGACGGCGACGTGCCCTGGCCCTGCTGCGC
GGGGAACCCGGGCTGCATTTGGCGCCGGGACCCGACGACCACAACCACCACCTCGCGCTG
GACCCCTGCCTCAGTGACGAGAACTATGACTTCAGCTCCGCCGAGTCGGGCTCCTCGCTG
CGCTACTACAGCGAGGGTGAGAGCGGCGGCGGCGGCGAGCTCCTTGTGCTGCACCCGCCG
CAGCAGCCTCCGCTGGTCCCAGCAACTCGGGGGCGGCGGCGGCGACAGGAGGGTCCCCC
GGGGAAGGAAACGTACCCGGCTTGGCGGCCGCGGCGCCGGCACCGCTATGAGGTAGTG
ACGGAGCTGGGCCCGGAGGAGGTACGCTGGTCTACAAGGAGGACAAGAAGACCTGGAAG
CCCTTCATCGGCTACGACTCGCTCCGCATCGAGCTCGCCTTCGGACCCCTGCTGCAGACC
ACGGGTGCCCGGCCCCAGGGCGGGGACCGGACGGCGACCATGTGTGCTCCCCACGGGC
CCAGCCTCCAGTTCGGGAGAAGATGACGATGAGGACCGCGCCTGCGGCTTCTGCCAGAGT
ACGACGGGGCACGAGCCGAGATGGTGGAGCTTGTGAACATCGAGCCTGTGTGCTGCGG
GGCGGCCTCTACGAGGTGGATGTGACCCAAGGAGAGTGCTACCCGGTGTACTGGAACAG
GCTGATAAAATACCAGTAATGCGTGGACAGTGGTTTATTGACGGCACTTGGCAGCCTCTA
GAAGAGGAAGAAAGTAATTTAATTGAGCAAGAACATCTCAATTGTTTTAGGGGCCAGCAG
ATGCAGGAAAAATTCGATATTGAAGTGTCAAAATCCATAGATGGAAAAGATGGCAGTGGG
ATCAACTATTCTGCTGTTTCATAGTTTCAAGTTGAGTCGAAACCATGTGGACTGGCACAGT
GTGGATGAAGTATATCTTTATAGTGATGCAACAACATCTAAAATTGCAAGAACAGTTACC
CAAAAAGTGGGATTTTCTAAAGCATCAAGTAGTGGTACCAGACTTCATAGAGGTTATGTA
GAAGAAGCCACATTAGAAGACAAGCCATCACAGACTACCCATATTGTATTTGTTGTGCAT
GGCATTGGGCAGAAAATGGACCAAGGAAGAATTATCAAAAATACAGCTATGATGAGAGAA
GCTGCAAGAAAAATAGAAGAAAGGCATTTTCCAACCATGCAACACATGTTGAATTTCTG
CCTGTTGAGTGGCGGTCAAACTTACTCTTGATGGAGACACTGTTGATTCCATTACTCCT
GACAAAGTACGAGGTTTAAGGGATATGCTGAACAGCAGTGCAATGGACATAATGTATTAT
ACTAGTCCACTTTATAGAGATGAACTAGTTAAAGGCCCTCAGCAAGAGCTGAATCGATTG
TATTCCTTTTCTGTTCTCGAATCCAGACTTTGAAGAAAAGGGGTAAAGTCTCAATA
GTATCACATTCTTGGGATGTGTAATTACTTATGACATAATGACTGGCTGGAATCCAGTT
CGGCTGTATGAACAGTTGCTGCAAAAGGAAGAAGAGTTGCCTGATGAACGATGGATGAGC
TATGAAGAACGACATCTTCTTGATGAACTCTATAAATAACGACGGCTGAAGGAAATA
GAAGAACGGCTTCACGGATTGAAAGCATCATCTATGACACAAACACCTGCCTTAAATTT
AAGGTTGAGAATTTCTTCTGTATGGGATCCCCATTAGCAGTTTTCTTGGCGTTGCGTGGC
ATCCGCCCAGGAAATACTGGAAGTCAAGACCATATTTGCCTAGAGAGATTTGTAACCGG
TTACTAAATATTTTTCATCCTACAGATCCAGTGCGCTTATAGATTAGAACCATTAATACTG
AAACACTACAGCAACATTTACCTGTCCAGATCCACTGGTACAATACTTCAAATCCTTTA
CCTTATGAACATATGAAGCCAAGCTTTCTCAACCCAGCTAAAGAACCTACCTCAGTTTCA
GAGAATGAAGGCATTTCAACCATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCCGA
CACTATGGAGAATCTATAACAAATATAGGCAAAGCAAGCATATTAGGGGCTGCTAGCATT
GGAAAGGGACTTGGAGGAATGTTGTTCTCAAGATTTGGACGTTTCTACAACACAGTCA
TCTGAAACATCAAAGACTCAATGGAAGATGAGAAGAAGCCAGTTGCCTCACCTTCTGCT
ACCACCGTAGGGACACAGACCCTTCCACATAGCAGTTCTGGCTTCTCGATTCTGCATTG
GAGTTGGATCACAGGATTGATTTTGAACCTCAGAGAAGGCCTTGTGGAGAGCCGCTATTGG
TCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTCTTTTA
ACCTTCATGTATAAACATGAGCACGATGATGATGCAAAACCAATTTAGATCCAATC

```

Restriction Sites: Please inquire

ACCN: NM_001160147

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:	<u>NM_001160147.1, NP_001153619.1</u>
RefSeq Size:	12906 bp
RefSeq ORF:	2640 bp
Locus ID:	80821
UniProt ID:	<u>Q8NEL9</u>
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 (2) includes an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (b) is longer than 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.