

Product datasheet for **RC228552**

DDHD2 (NM_001164232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDHD2 (NM_001164232) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDHD2
Synonyms:	iPLA(1)gamma; iPLA1gamma; SAMWD1; SPG54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC228552 representing NM_001164232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCATCAGTGCAGTCACAACAGGAGCAGTTGTCCAGTCAGATCCATCTCCGTCACCAAACATCATGTA
 GTTCCTTTGAGCTAATAGACATGGATGCTGGCAGCTTGTATGAACCAGTTTCTCCCCATTGGTTTTATTG
 TAAGATAATAGATTCTAAGGAGACATGGATTCTTTCAACTCTGAGGATTCACAGCAGCTGGAAGAGGCA
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 TGGACCTTAAGAACAACCTTGCTAGGTTCGCTGCGGATGGCCTGGAAGTCTTTTACCAGAGCTCCATACCC
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 ACCCAGGGTATCTTCCTTGATCAGCCTTTACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228552 representing NM_001164232
 Red=Cloning site Green=Tags(s)

MSSVQSQQEQLSQSDPSPSPNCSSSFELIDMDAGSLYEPVSPHWFYCKIIDSKETWIPFNSEDSQQLLEEA
 YSSGKGCGNRRVPTDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGDKNKYVPYSEFSQVLEET
 MLAVTLDEWKKKLESPNREIIILHNPKLMVHYQPAGSDDWGSPTEQGRPRTVKRGVENISVDIHCGE
 LQIDHLVFFVHGIGPACDLRFRSIVQCVDNFRSVSLNLLQTHFKKAQENQQIGRVEFLPVNWHSPHSTG
 VDVDLQRITLPSINLRHFTNDITLDVFFYNSPTYCQTITVDTVASEMNRITYTLFLQRNPDPFKGGVS
 IAGHSLGSLILFDILTNQKDSLGDIDSEKDSLNIVMQGDTPTEEDLKKLQLEFFDIFEKEKVDKEALALCT
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 LIPHNHGKRMRHLELREGLTRMSMDLKNLLGSLRMAWKSFTRAPYPALQASETPEETEAEPESTSEKPS
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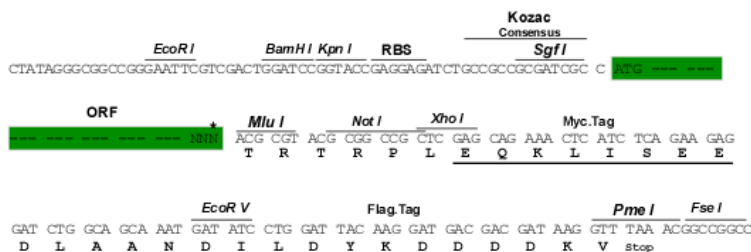
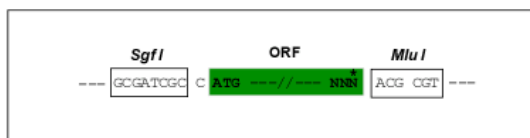
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_f07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001164232

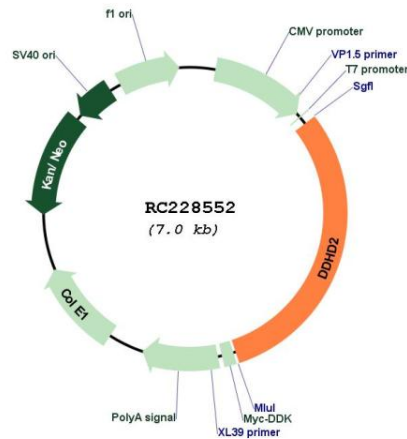
ORF Size: 2133 bp

OTI Disclaimer: 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](#)

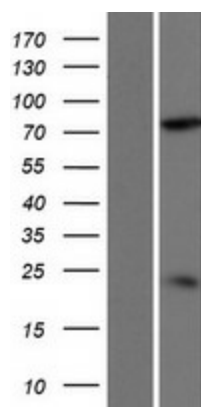
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001164232.1, NP_001157704.1</u>
RefSeq ORF:	2136 bp
Locus ID:	23259
UniProt ID:	<u>O94830</u>
Cytogenetics:	8p11.23
MW:	80.9 kDa
Gene Summary:	This gene encodes a phospholipase enzyme containing sterile-alpha-motif (SAM), WWE, and DDHD domains. This protein participates in membrane trafficking between the endoplasmic reticulum and the Golgi body. Mutations in this gene can cause autosomal recessive spastic paraplegia 54. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

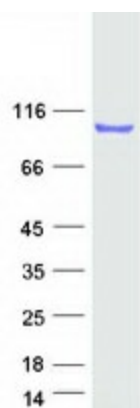
Product images:



Circular map for RC228552



Western blot validation of overexpression lysate (Cat# [LY431580]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDHD2 protein (Cat# [TP328552]). The protein was produced from HEK293T cells transfected with DDHD2 cDNA clone (Cat# RC228552) using MegaTran 2.0 (Cat# [TT210002]).