

Product datasheet for **RG228552**

DDHD2 (NM_001164232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDHD2 (NM_001164232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDHD2
Synonyms:	iPLA(1)gamma; iPLA1gamma; SAMWD1; SPG54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG228552 representing NM_001164232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCATCAGTGCAGTCACAACAGGAGCAGTTGTCCAGTCAGATCCATCTCCGTCACCAAACATCATGTA
 GTTCCTTTGAGCTAATAGACATGGATGCTGGCAGCTTGTATGAACCAGTTTCTCCCCATTGGTTTTATTG
 TAAGATAATAGATTCTAAGGAGACATGGATTCTTTCAACTCTGAGGATTCACAGCAGCTGGAAGAGGCA
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 ATGCTTGCTGTAACCTTTGGATGAATGGAAAAAGAACTGGAATCTCCCAACAGAGAAATTATTATTTTAC
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 GATGTTAACACAGAAGAGACCTCTGTGGCAGTTAAAGAAGAAGTCTGCCTATCAATGTGGGGATGCTGA
 ATGGAGGCCAACGCATTGACTATGTGCTACAGGAGAAGCCTATTGAAAGTTTTAATGAGTATTTATTTGC
 TTTACAAAGCCATCTATGCTACTGGGAGTCTGAAGATACAGTATTGCTCGTCCTCAAAGAGATCTACCAA
 ACCCAGGGTATCTTCCTTGATCAGCCTTTACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

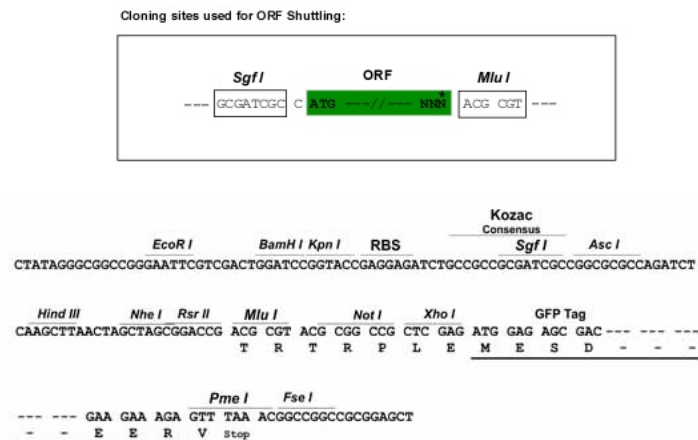
Protein Sequence: >RG228552 representing NM_001164232
 Red=Cloning site Green=Tags(s)

MSSVQSQQEQLSQSDPSPSPNSCSSLIDMDAGSLYEPVSPHWFYCKIIDSKETWIPFNSEDSQGLEEA
 YSSGKGCGNVRVPTDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGDKNKYVPYSEFSQVLEETY
 MLAVTLDEWKKKLESPNREIIILHNPCLMVHYQPVAGSDDWGSTPTEQGRPRTVKGVENISVDIHCSEP
 LQIDHLVFFVHGIGPACDLRFRSIVQCVNDFRSVSLNLLQTHFKKAQENQIGRVEFLPVNWHSPHSTG
 VDVLQRLTLP SINRLRHFTNDITLDVFFYNSTPYCQTI VDTVASEMNRIYTLFLQRNPDFKGGVSIAGH
 SLGSLILFDILTQKDSLGDIDSEKDSLNI VMDQGDPTLEEDLKKLQLEFFDIFEKEKVDKEALALCT
 DRDLQEIGIPLGRKKILNYFSTRKNSMGIKRPAPQPASGANIPKESEFCSSNTRNGDYLDVGIGQVSV
 KYPRLIYKPEIFFAFGSPIGMFLTVRGLKRIDPNYRFTCKGFFNIYHPFDPVAYRIEPMVVPGEFEP
 LIPHHKGRKRMHLELREGLTRMSMDLKNLLGSLRMAWKSFTAPYPALQASETPETEAEPESTSEKPS
 DVNTEETSVAVKEEVLPINVGMLNGGQRIDYVLQEKPIESFNEYLFALQSHLCYWESEDVLLVLKEIYQ
 TQGIFLDQPLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_001164232.1](#), [NP_001157704.1](#)

RefSeq Size: 4546 bp

RefSeq ORF: 2136 bp

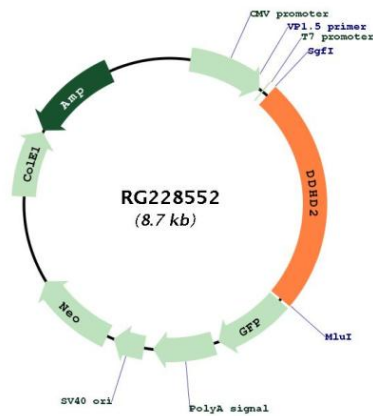
Locus ID: 23259

UniProt ID: [O94830](#)

Cytogenetics: 8p11.23

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 RG228552