

Product datasheet for **RG228159**

DDHD2 (NM_001164234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)

ORF Nucleotide Sequence: >RG228159 representing NM_001164234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCATCAGTGCAGTCACAACAGGAGCAGTTGTCCCAGTCAGATCCATCTCCGTCACCAAACCTCATGTA
GTTCCCTTGAGCTAATAGACATGGATGCTGGCAGCTTGTATGAACCAAGTTCTCCCCATTGGTTTATTG
TAAGATAATAGATTCTAAGGAGACATGGATTCTTTCAACTCTGAGGATTCACAGCAGCTGGAAGAGGCA
TATAGCTCTGGAAGGTTGTAAATGGGAGAGTTGTTCTACTGATGGGGCAGATATGATGTTCAATTTGG
GGGAGAGGATGCGGTATGCTGTATACTGGGATGAAGTGGCATCGGAAGTGAGACGATGTACGTGGTTTTA
CAAGGGGGACAAAGACAATAAGTATGTTCCCTACTCGGAGAGCTTCAGCCAAGTTTTAGAGGAACTTAC
ATGCTTGCTGTAACCTTTGGATGAATGGAAGAAAGAACTGGAATCTCCCAACAGAGAAATTATTATTTTAC
ACAATCCAAAGCTTATGGTGCATTACCAGCCAGTTGCAGGGTCTGATGATTGGGGTTCAACACCCACGGA
GCAGGGTCGACCAAGAAGTGTGAAGAGAGGAGTTGAGAACATCTCTGTTGACATTATTGTGGTAATGTT
AATCGTTATTTTTTCTTACCTTTGGATGTATTGTTTACTCCTAAATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228159 representing NM_001164234
Red=Cloning site Green=Tags(s)

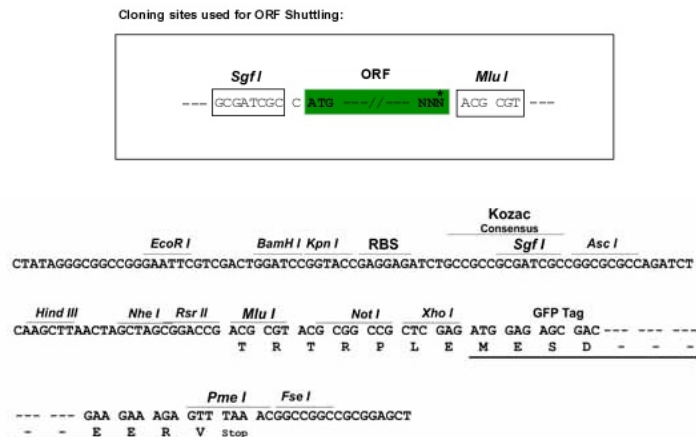
MSSVQSQQEQLSQSDPSPSPNSCSFELIDMDAGSLYEPVSPHWFYCKIIDSKETWIPFNSEDSQQLEEA
YSSGKGCNGRVVPTDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGDKNKYVPYSEFSQVLEETY
MLAVTLDEWKKLESPNREIILHNPKLMVHYQPVAGSDDWGSTPTEQGRPRTVKRGVENISVDIHCGNV
NRLFFLTFGCICLLKL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164234

ORF Size: 681 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:

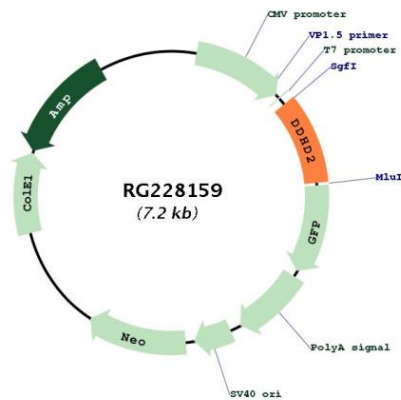
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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: [NM_001164234.1](#), [NP_001157706.1](#)

RefSeq Size:	1890 bp
RefSeq ORF:	684 bp
Locus ID:	23259
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 RG228159