

Product datasheet for **RC227230**

DULLARD (CTDNEP1) (NM_001143775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DULLARD (CTDNEP1) (NM_001143775) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DULLARD
Synonyms:	DULLARD; HSA011916; NET56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227230 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGATGCGGACGCAGTGTCTGCTGGGGCTGCGCACGTTTCGTGGCCTTCGCCGCAAGCTCTGGAGCTTCTC
TCAATTTACCTTTTTCGGGAGGCAGATCCGCACGGTAATTCAGTACCAAACCTGTTTCGATATGATATCCTCCC
CTTATCTCCTGTGTCCCAGGATCGGCTAGCCCAGGTGAAGAGGAAGATCCTGGTCTGGATCTGGATGAG
ACACTTATCACTCCCACCATGATGGGGTCTGAGGCCACAGTCCGGCCTGGTACGCCTCTGACTTCA
TCCTCAAGGTGGTAATAGACAAACATCCTGTCCGGTTTTTTGTACATAAGAGGCCCATGTGGATTTCTT
CCTGGAAGTGGTGGAGCCAGTGGTACGAGCTGGTGGTGTACAGCAAGCATGGAGATCTATGGCTCTGCT
GTGGCAGATAAACTGGACAATAGCAGAAGCATTCTTAAGAGGAGATATTACAGACAGCACTGCACCTTTGG
AGTTGGGCAGCTACATCAAGGACCTCTCTGTGGTCCACAGTGACCTCTCCAGCATTGTGATCCTGGATAA
CTCCCCAGGGGCTTACAGGAGCCATCCAGACAATGCCATCCCCATCAAATCCTGGTTCAGTGACCCACGC
GACACAGCCCTTCTCAACCTGCTCCCAATGTGGATGCCCTCAGGTTACCGCTGATGTTTCGTTCCGTGC
TGAGCCGAAACCTTACCAACATCGGCTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227230 protein sequence
Red=Cloning site Green=Tags(s)

MMRTQCLLGLRTFVAFAAKLWSFFIYLLRRQIRTVIQYQTVRYDILPLSPVSRNRLAQVKRKILVLDLDE
 TLIHSHHDGVL RPTV RPTGPPDFILKVVIDKHPVRFVHKRPHVDF FLEVVSQWYELVVF TASMEIYGSA
 VADKLDNSRSILKRYYRQHCTLELGSYIKDLSVVHSDLSSIVILDNSPGAYRSHPDNAIPIKSWFSDPS
 DTALLNLLPMLDALRFTADVRSVLSRNLHQHRLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6057_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001143775

ORF Size: 732 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_001143775.1](#), [NP_001137247.1](#)

RefSeq Size: 1713 bp

RefSeq ORF: 735 bp

Locus ID: 23399

UniProt ID: [O95476](#)

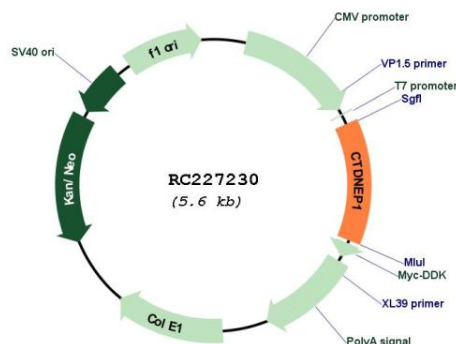
Cytogenetics: 17p13.1

Protein Families: Transmembrane

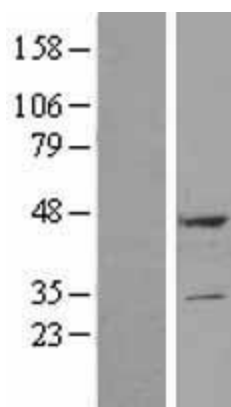
MW: 28.4 kDa

Gene Summary: Serine/threonine protein phosphatase forming with CNEP1R1 an active phosphatase complex that dephosphorylates and may activate LPIN1 and LPIN2. LPIN1 and LPIN2 are phosphatidate phosphatases that catalyze the conversion of phosphatidic acid to diacylglycerol and control the metabolism of fatty acids at different levels. May indirectly modulate the lipid composition of nuclear and/or endoplasmic reticulum membranes and be required for proper nuclear membrane morphology and/or dynamics. May also indirectly regulate the production of lipid droplets and triacylglycerol. May antagonize BMP signaling. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227230



Western blot validation of overexpression lysate (Cat# [LY428338]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227230 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).