

## Product datasheet for **RG227230**

### **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:	TurboGFP
Symbol:	CTDNEP1
Synonyms:	DULLARD; HSA011916; NET56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227230 representing NM_001143775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCGGACGCAGTGTCTGCTGGGGCTGCGCACGTTTCGTGGCCTTCGCCGCAAGCTCTGGAGCTTCT  
TCATTTACCTTTTGGGAGGCAGATCCGCACGGTAATTCAGTACCAAACCTGTCGATATGATATCCTCCC  
CTTATCTCCTGTGTCCCAGGATCGGCTAGCCCAGGTGAAGAGGAAGATCCTGGTCTGGATCTGGATGAG  
ACACTTATCACTCCCACCATGATGGGGTCTGAGGCCACAGTCCGGCCTGGTACGCCTCTGACTTCA  
TCCTCAAGGTGGTAATAGACAAACATCCTGTCCGGTTTTTTGTACATAAGAGGCCCATGTGGATTTCTT  
CCTGGAAGTGGTGGTACGAGCTGGTGGTGGTTACAGCAAGCATGGAGATCTATGGCTCTGCT  
GTGGCAGATAAACTGGACAATAGCAGAAGCATTCTTAAGAGGAGATATTACAGACAGCACTGCACCTTTGG  
AGTTGGGCAGCTACATCAAGGACCTCTGTGGTCCACAGTGACCTCTCCAGCATTGTGATCCTGGATAA  
CTCCCCAGGGGCTTACAGGAGCCATCCAGACAATGCCATCCCCATCAAATCCTGGTTCAGTGACCCAGC  
GACACAGCCCTTCTCAACCTGCTCCCAATGTGGATGCCCTCAGGTTACCGCTGATGTTCTCGTCCGGTGC  
TGAGCCGAAACCTTACCAACATCGGCTCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227230 representing NM\_001143775  
 Red=Cloning site Green=Tags(s)

```
MMRTQCLLGLRTFVAFAAKLWSFFIYLLRRQIRTVIQYQTVRYDILPLSPVSRNRLAQVKRKILVLDLDE
TLIHSHHGVL RPTV RPPDFILKVVIDKHPVRFVHKRPHVDFLEVVVSQWYELVVFTASMEIYGSA
VADKLDNSRSILKRYYRQHCTLELGSYIKDLSVVHSDLSSIVILDNSPGAYRSHPDNAIPIKSWFSDPS
DTALLNLLPMLDALRFTADVRSVLSRNLHQHRLW
```

TRTRPLE - GFP Tag - V

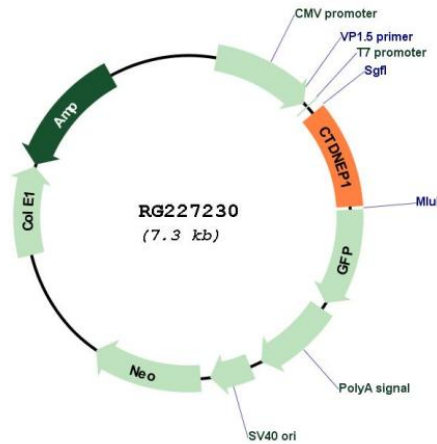
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



ACCN: NM\_001143775

ORF Size: 732 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001143775.1</a> , <a href="#">NP_001137247.1</a>
<b>RefSeq Size:</b>	1713 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	23399
<b>UniProt ID:</b>	<a href="#">O95476</a>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]