

## Product datasheet for **RN216124**

### Ctdnep1 (NM\_001100494) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctdnep1 (NM_001100494) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ctdnep1
Synonyms:	Dullard
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216124 representing NM_001100494 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCGGACGCAGTGTCTGCTGGGGCTGCGCACGTTTCGTGGCCTTCGCCGCAAGCTCTGGAGCTTCT  
TTATTTACCTTTTTCGGGAGGCAGATCCGCACGGTAATTCAGTATCAAACCTGTTTCGATATGATATCCTTCC  
CTTATCTCCTTTGTCCCAGGATCGACTAGCCCAGGTGAAGAGGAAGATCCTGGTCTGGATCTGGATGAA  
ACCCTTATTCATTCTCACCACGATGGGGTCTGAGGCCTACAGTGAGGCCTGGAACACCTCTGATTCA  
TCCTGAAGGTGGTAATAGACAAACATCCTGTCCGGTTTTTTGTACATAAGAGACCCCATGTGGATTTCTT  
CTTAGAAGTGGTAAGCCAGTGGTATGAGCTTGTGGTGTTCACAGCAAGCATGGAAATTTATGGCTCTGCT  
GTGGCAGATAAACTGGACAATAGCAGAAGCATTCTTAAGAGGAGATACTACAGACAGCACTGCACCTTTGG  
AGTTGGGCAGCTACATCAAAGACCTCTCTGTGGTCCACAGTGACCTTTCCAGCATCGTGATCCTGGACAA  
CTCCCCTGGGGCTTACAGGAGCCACCCAGACAATGCCATCCCCATCAAATCCTGGTTCAGTGACCCAGT  
GACACAGCCCTTCTCAACCTTCTCCCAATGTTGGACGCCCTCAGGTTCACTGCTGATGTCGGATCGGTGC  
TGAGCCGAAACCTTACCAACATAGGCTCTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001100494
Insert Size:	735 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001100494.1, NP_001093964.1</u>
<b>RefSeq Size:</b>	1530 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	287447
<b>UniProt ID:</b>	<u>Q3B7T6</u>
<b>Cytogenetics:</b>	10q24
<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 (By similarity).[UniProtKB/Swiss-Prot Function]