

## Product datasheet for **RC200672**

### DDOST (NM\_005216) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDOST (NM_005216) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDOST
Synonyms:	AGER1; CDG1R; GATD6; OKSWcl45; OST; OST48; WBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC200672 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTACTTCCGGTGTGCAGGTGCTGGGTCTTCGGCAGGAGGAGGAAGATGGAGCCCAGCACCCGCGG  
 CCCGGGCTTGGGCCCTCTTTTGGTTGCTGCTGCCCTTGCTTGGCGGTTTTCGCCAGCGGACCCGCAC  
 CTTAGTGTGCTGGACAACCTCAACGTGCGGGAGACTCATTTCGCTTTTCTCCGGAGCCTGAAGGACCGG  
 GGCTTTGAGCTCACATTCAAGACCCTGATGACCCAGCCTGTCTCTATAAAGTATGGGAATTCCTCT  
 ATGACAATCTCATATTTTCTCCCTTCGGTAGAAGATTTGGAGGCAACATCAACGTGGAGACCATCAG  
 TGCCTTTATTGACGGTGGAGGCAGTGTGCTGGTAGCTGCCAGCTCCGACATTGGTGACCCTCTTCGAGAG  
 CTGGGCAGTGAGTGGCGGATTGAGTTTACGAGGAGAAAACGGCTGTATTGACCATCACAATATGACA  
 TCTCAGACCTTGGCCAGCATACGCTCATCGTGGCTGACACTGAGAACCTGCTGAAGGCCCAACCATCGT  
 TGGGAAATCATCTCTAAATCCCATCCTCTTTCGAGGTGTTGGGATGGTGGCCGATCCTGATAACCCCTTG  
 GTGCTGGACATCCTGACGGGCTCTCCACCTCTTACTCCTTCTCCCGGACAAGCCTATACCCAGTATC  
 CACATGCGGTGGGAAGAACACCCTCCTCATTGCTGGGCTCCAGGCCAGGAACAATGCCCGCTCATCTT  
 CAGCGGCTCCCTCGACTTCTTCAGCGACTCCTTCTTCAACTCAGCAGTGCAGAAGGCGGCGCCCGCTCC  
 CAGAGGTATCCAGACAGGCAACTATGAACTAGCTGTGGCCCTCTCCGCTGGGTGTTCAAGGAGGAGG  
 GTGTCTCCGTGTGGGCCTGTGTCCATCATCGGGTGGGTGAGACAGCCCCACCAATGCCTACACTGT  
 CACTGACCTAGTGGAGTATAGCATCGTGATCCAGCAGCTCTCAAATGGCAAATGGGTCCCCTTTGATGGC  
 GATGACATTGAGTGGAGTTTGTCCGATTGATCCTTTTGTGAGGACCTCTCTGAAGAAGAAAGGTGGCA  
 AATACAGTGTTCAGTTCAAGTTGCCCGACGTGTATGGTGTATTCCAGTTAAAGTGGATTACAACCGGCT  
 AGGCTACACACACCTGTACTCTTCCACTCAGGTATCCGTGCGGCCACTCCAGCACACGCAGTATGAGCGC  
 TTCATCCCTCGCCTACCCCTACTACGCCAGCGCTTCTCCATGATGCTGGGGCTTTCATCTTCAGCA  
 TCGTCTTCTTGCACATGAAGGAGAAGGAGAAGTCCGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200672 protein sequence  
 Red=Cloning site Green=Tags(s)

MGYFRCAGAGSFRRRMEPSTAARAWLFWLLPLLGAVCASGPRTLVLDDNLNVRETHSLFFRSLKDR  
 GFELTFKTADPSLSLIKYEFLYDNLIFSPSVEDFGGNINVEITISAFIDGGGSLVAASDIDGDLRE  
 LGSECGIEFDEEKTAVIDHHNYDISDLGQHTLIVADTENLLKAPTIVGKSSLNPILFRGVMVADPDNPL  
 VLDILTGSSTSYFFPDKPITQYPHAVGKNTLLIAGLQARNARVIFSGSLDFFSDSFFNSAVQKAAPGS  
 QRYSQTGNIELAVALSRWVFKEEGLRVGPVSHHRVGETAPPNAYTVTDLVEYSIVIQQLSNGKWPFDG  
 DDIQLEFVRIDPFVRTFLKKKGGKYSVQFKLPDVGVFQFKVDYNRLGYTHLYSSTQVSVRPLQHTQYER  
 FIPSAYPYASAFSMLGLFIFSIIVFLHMKKEKSD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6238\\_g11.zip](https://cdn.origene.com/chromatograms/mk6238_g11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005216

**ORF Size:** 1368 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\\_005216.3](#), [NP\\_005207.2](#)
**RefSeq Size:** 2144 bp

**RefSeq ORF:** 1320 bp

**Locus ID:** 1650

**UniProt ID:** [P39656](#)
**Cytogenetics:** 1p36.12

**Domains:** DDOST\_48kD

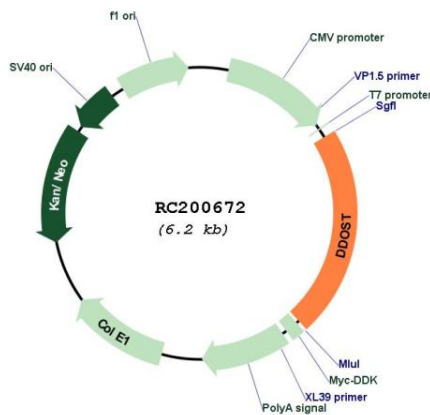
**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

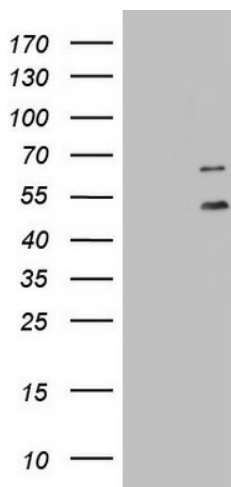
**MW:** 50.7 kDa

**Gene Summary:** This gene encodes a component of the oligosaccharyltransferase complex which catalyzes the transfer of high-mannose oligosaccharides to asparagine residues on nascent polypeptides in the lumen of the rough endoplasmic reticulum. The protein complex co-purifies with ribosomes. The product of this gene is also implicated in the processing of advanced glycation endproducts (AGEs), which form from non-enzymatic reactions between sugars and proteins or lipids and are associated with aging and hyperglycemia. [provided by RefSeq, Jul 2008]

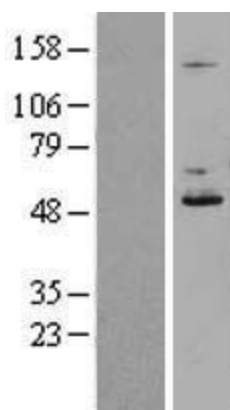
**Product images:**



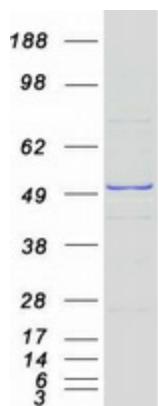
Circular map for RC200672



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DDOST (Cat# RC200672, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DDOST (Cat# [TA803634]). Positive lysates [LY417440] (100ug) and [LC417440] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417440]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200672 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDOST protein (Cat# [TP300672]). The protein was produced from HEK293T cells transfected with DDOST cDNA clone (Cat# RC200672) using MegaTran 2.0 (Cat# [TT210002]).