

## Product datasheet for **SC116849**

### DDOST (NM\_005216) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDOST (NM_005216) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDOST
Synonyms:	AGER1; CDG1R; GATD6; OKSWcl45; OST; OST48; WBP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005216, the custom clone sequence may differ by one or more nucleotides

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ATGGGGTACTTCCGGTGTGCAGGTGCTGGGTCCTTCGGCAGGAGGAGGAAGATGGAGCCCAGCACCCGCGG
CCCGGGCTTGGGCCCTCTTTTGGTTGCTGCTGCCCTTGCTTGGCGCGTTTGCGCCAGCGGACCCCGCAC
CTTAGTGTGCTGGACAACCTCAACGTGCGGGAGACTCATTGCTTTTCTCCGGAGCCTGAAGGACCGG
GGCTTTGAGCTCACATTCAAGACCGCTGATGACCCAGCCTGTCTCTATAAAGTATGGGAATTCCTCT
ATGACAATCTCATATTTCTCCCCTTCGGTAGAAGATTTGGAGGCAACATCAACGTGGAGACCATCAG
TGCCTTTATTGACGGCGGAGGCAGTGTGCTGGTAGCTGCCAGCTCCGACATTGGTGACCCTTTCGAGAG
CTGGGCAGTGAGTGGGATTGAGTTTACGAGGAGAAAACGGCTGTATTGACCATCACAACTATGACA
TCTCAGACCTTGCCAGCATACGCTCATCGTGGCTGACACTGAGAACCTGCTGAAGGCCCAACCATCGT
TGGGAAATCATCTCTAAATCCCATCCTCTTTCGAGGTGTTGGGATGGTGGCCGATCCTGATAACCCTTTG
GTGCTGGACATCCTGACGGGCTCTTCCACCTCTTACTCCTTCTCCCGGACAAGCCTATACCCAGTATC
CACATGCGGTGGGGAAGAACCCTCCTATTGCTGGGCTCCAGGCCAGGAACAATGCCCGGTCATCTT
CAGCGGCTCCCTCGACTTCTTACGCGACTCCTTCTCAACTCAGCAGTGCAGAAGGCGGCGCCGGCTCC
CAGAGGTATCCAGACAGGCAACTATGAACTAGCTGTGGCCCTCCCGCTGGGTGTTCAAGGAGGAGG
GTGTCTCCGTGTGGGGCTGTGTCCCATCATCGGGTGGGCGAGACAGCCCCACCAATGCCTACTGTG
CACTGACCTAGTGGAGTATAGCATCGTGATCCAGCAGCTCTCAAATGGCAAATGGGTCCCCTTTGATGGC
GATGACATTCAGCTGGAGTTTGTCCGCATTGATCCTTTTGTGAGGACCTTCTGAAGAAGAAGGTGGCA
AATACAGTGTTCAAGTTGACCGAGCTGTATGGTGTATTCCAGTTTAAAGTGGATTACAACCGGCT
AGGCTACACACCTGTACTCTTCCACTCAGGTATCCGTGCGGCCACTCCAGCACACGCAGTATGAGCGC
TTCATCCCCTCGGCTACCCCTACTACGCCAGCGCCTTCTCCATGATGCTGGGGCTTTCATCTTCAGCA
TCGTCTTCTTGCACATGAAGGAGAAGGAGAAGTCCGACTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005216 unedited CACGAGGACGCCAGCCGCGCGTATCCCGATCACTTCCGGGTAGTGCTCCACGGGCACG AGCCGCGATTGGGCTACCGTAGATGGGGTACTTCCGGTGTGCAGGTGCTGGGTCCTTCGG CAGGAGGAGGAAGATGGAGCCAGCACCAGCCGCGCCGGGCTTGGGCCCTCTTTTGGTTGCT GCTGCCCTTGCTTGGCGCGTTTGCGCCAGCGGACCCCGCACCTTAGTGCTGTGGACAA CCTCAACGTGCGGAGACTCATTGCTTTTCTCCGAGCCTGAAGGACCGGGGCTTTGA GCTCACATTCAAGACCGCTGATGACCCAGCCTGTCTCTATAAAGTATGGGGAATTCCT CTATGACAATCTCATTTTTCTCCCTTCGGTAGAAGATTTTGGAGGAACATCAACGT GGAGACCATCAGTGCCTTTATTGACGGCGGAGGAGTGTGCTGGTAGCTGCCAGCTCCGA CATTGGTGACCCTCTTCGAGAGCTGGGCAGTGAGTGGGGATTGAGTTTGACGAGGAGAA AACGGCTGCTATTGACCATCACAATGACATCTCAGACCTTGCCAGCATACGCTCAT CGTGGCTGACACTGAGAACCTGCTGAAGGCCCCACCATCNGTGGAATCATCT
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005216 unedited NAACGTACTATGNACCGCGCCCAATCTATGATCGGTTTTTTTTTTTTTTTTTTTTTTTT TATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTGAGACA GAGTCTTAACACTGTTGCCAAGCTGGAGTGCAATGGCGTGATCTCAGCTCACTGCAAGC TCTGCCTCTTGGATTCATGCCTTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACCACAG GTGCCACCACCAGCCAGCCAATTTTTGTACTTTTAGTAGAGACAGGGTTTTACCGT GTTAGCCAGGATAGTCTCGATCTCCTGACCTCGTGAGCCGCTGCCTCGGCCTCCAAAG TGCTGGGATTACAGGCATGAGCCACCGTGCCTGGCCACGTCCTATTTTAGAAATGAGAG GAGTGACTGCACATAGGAAAAATGCCACTTTTAGCAATCAAAGTGAAAAAATCTTTTT ATATAAAAATTATCCCACTCCACCCCTTGGCTCTCAGTGTTGCATCTCCACAGAGGT AAAGTTGTGCCATTTCCACGGCTTTAAACAAAGCAAAACAAAACCACCAATCCTAATA ACCCCTCCCTGCCCGTCTCCACGCTGTGCGGAGAGGGCTCTAGCCCTCAGTCGGAC TTCTCCTTCTCCTCATGTGCAAGAAGACGATGCTGAAGATGAAGAGCCCCAGCATCATG GATTATGCGCTGGCGTAATATGGGTAGGCCCGAGGGGATGAAACGCCTCATACTGGCTGT GCCTGGAATGGCCACGGGATACCTGAGTGGGAGAGTACAGGTGGTGGCTAGCCCTACC CCGTTTGTATCCCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005216
<b>Insert Size:</b>	2000 bp
<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>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><a href="#">NM_005216.3</a></u> , <u><a href="#">NP_005207.2</a></u>

RefSeq Size:	2144 bp
RefSeq ORF:	1371 bp
Locus ID:	1650
UniProt ID:	<a href="#">P39656</a>
Cytogenetics:	1p36.12
Domains:	DDOST_48kD
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>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]</p>