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Product datasheet for RG200672

DDOST (NM_005216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDOST (NM_005216) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDOST
Synonyms:	AGER1; CDG1R; GATD6; OKSWcl45; OST; OST48; WBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG200672 representing NM_005216
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTACTTCCGGTGTGCAGGTGCTGGGTCCTTCGGCAGGAGGAGGAAGATGGAGCCCAGCACCGCGG
CCCGGGCTTGGGCCCTCTTTTGGTTGCTGCTGCCCTTGCTTGGCGCGGTTTGCGCCAGCGGACCCCGCAC
CTTAGTGCTGCTGGACAACCTCAACGTGCGGGAGACTCATTCGCTTTTCTTCCGGAGCCTGAAGGACCGG
GGCTTTGAGCTCACATTCAAGACCGCTGATGACCCCAGCCTGTCTCTCATAAAGTATGGGGAATTCCTCT
ATGACAATCTCATCATTTTCTCCCCTTCGGTAGAAGATTTTGGAGGCAACATCAACGTGGAGACCATCAG
TGCCTTTATTGACGGTGGAGGCAGTGTGCTGGTAGCTGCCAGCTCCGACATTGGTGACCCTCTTCGAGAG
CTGGGCAGTGAGTGCGGGATTGAGTTTGACGAGGAGAAAACGGCTGTCATTGACCATCACAACTATGACA
TCTCAGACCTTGGCCAGCATACGCTCATCGTGGCTGACACTGAGAACCTGCTGAAGGCCCCAACCATCGT
TGGGAAATCATCTCTAAATCCCATCCTCTTTCGAGGTGTTGGGATGGTGGCCGATCCTGATAACCCTTTG
GTGCTGGACATCCTGACGGGCTCTTCCACCTCTTACTCCTTCTTCCCGGACAAGCCTATCACCCAGTATC
CACATGCGGTGGGGAAGAACACCCTCCTCATTGCTGGGCTCCAGGCCAGGAACAATGCCCGCGTCATCTT
CAGCGGCTCCCTCGACTTCTTCAGCGACTCCTTCTTCAACTCAGCAGTGCAGAAGGCGGCGCCCGGCTCC
CAGAGGTATTCCCAGACAGGCAACTATGAACTAGCTGTGGCCCTCTCCCGCTGGGTGTTCAAGGAGGAGG
GTGTCCTCCGTGTGGGGCCTGTGTCCCATCATCGGGTGGGTGAGACAGCCCCACCCAATGCCTACACTGT
CACTGACCTAGTGGAGTATAGCATCGTGATCCAGCAGCTCTCAAATGGCAAATGGGTCCCCTTTGATGGC
GATGACATTCAGCTGGAGTTTGTCCGCATTGATCCTTTTGTGAGGACCTTCCTGAAGAAGAAAGGTGGCA
AATACAGTGTTCAGTTCAAGTTGCCCGACGTGTATGGTGTATTCCAGTTTAAAGTGGATTACAACCGGCT
AGGCTACACACACCTGTACTCTTCCACTCAGGTATCCGTGCGGCCACTCCAGCACACGCAGTATGAGCGC
TTCATCCCCTCGGCCTACCCCTACTACGCCAGCGCCTTCTCCATGATGCTGGGGCTCTTCATCTTCAGCA
TCGTCTTCTTGCACATGAAGGAGAAGGAGAAGTCCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

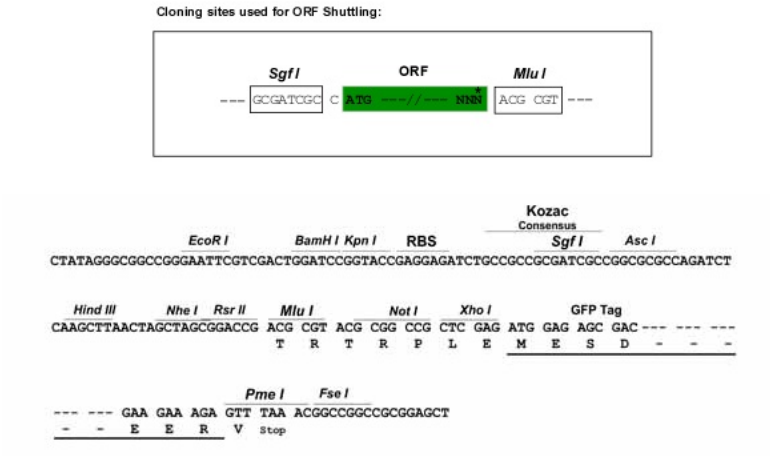
>RG200672 representing NM_005216
Red=Cloning site Green=Tags(s)

MGYFRCAGAGSFGRRRKMEPSTAARAWALFWLLLPLLGAVCASGPRTLVLLDNLNVRETHSLFFRSLKDR
GFELTFKTADDPSLSLIKYGEFLYDNLIIFSPSVEDFGGNINVETISAFIDGGGSVLVAASSDIGDPLRE
LGSECGIEFDEEKTAVIDHHNYDISDLGQHTLIVADTENLLKAPTIVGKSSLNPILFRGVGMVADPDNPL
VLDILTGSSTSYSFFPDKPITQYPHAVGKNTLLIAGLQARNNARVIFSGSLDFFSDSFFNSAVQKAAPGS
QRYSQTGNYELAVALSRWVFKEEGVLRVGPVSHHRVGETAPPNAYTVTDLVEYSIVIQQLSNGKWVPFDG
DDIQLEFVRIDPFVRTFLKKKGGKYSVQFKLPDVYGVFQFKVDYNRLGYTHLYSSTQVSVRPLQHTQYER
FIPSAYPYYASAFSMMLGLFIFSIVFLHMKEKEKSD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

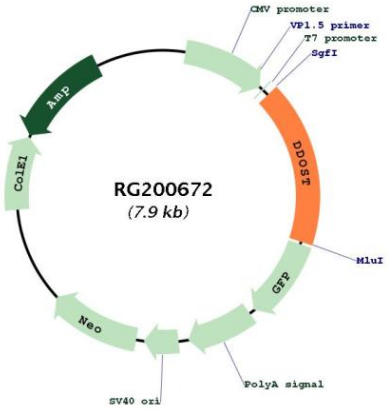
Domains: DDOST_48kD

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

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 RG200672