OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG207041

Ddost (NM_007838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddost (NM_007838) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ddost
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG207041 representing NM_007838
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGATGGATCCCCGCCTCGCCGTCCGCGCCTGGCCCCTCTGCGGGCTGCTGCTGGCCGTGCTCGGCT
GCGTCTGCGCCAGCGGCCCCCGCACCCTCGTGCTGCTGGACAACCTGAACGTGCGGGACACGCACTCGCT
GTTCTTCCGCAGCCTGAAGGACCGGGGCTTTGAGCTCACCTTCAAGACCGCAGATGACCCCAGCTTGTCC
CTCATTAAGTACGGGGAGTTCCTCTATGACAACCTTATCATCTTTTCCCCGTCGGTGGAAGATTTTGGAG
GCAACATCAACGTGGAGACCATCAGTGCCTTCATTGATGGTGGCGGCAGCGTTTTGGTGGCTGCCAGCTC
TGATATTGGTGACCCTCTTCGGGAGCTGGGCAGTGAGTGTGGGATTGAATTTGATGAAGAGAAAACAGCT
GTCATCGACCACCACAACTATGATGTTTCTGACCTTGGCCAGCACACACTCATTGTGGCTGACACTGAGA
ACCTGCTGAAGGCCCCGACCATTGTTGGCAAGTCATCTCTGAACCCCATTCTCTTCCGAGGAGTTGGAAT
GGTGGCAGACCCGGACAATCCCTTGGTTTTGGACATCCTAACAGGCTCTTCAACCTCTTACTCCTTCTTC
CCAGATAAACCAATCACCCAGTACCCCCATGCGGTGGGGAGGAACACTCTGCTGATTGCCGGGCTCCAGG
CCAGGAACAACGCCCGGGTCATCTTCAGTGGCTCTCTGGATTTCTTCAGCGATGCCTTCTTCAACTCGGC
AGTGCAGAAGGCCACACCCGGTGCGCAGAGGTATTCTCAGACAGGCAACTATGAACTAGCTGTGGCCCTC
TCACGCTGGGTGTTCAAGGAGGAGGGTGTCCTTCGAGTAGGGCCTGTGTCCCATCACCGGGTGGGCGAGA
TGGCTCCACCCAATGCCTACACTGTCACCGACTTGGTGGAGTATAGCATCATCATAGAACAGCTCTCCAA
TGGCAAGTGGGTCCCCTTTGATGGTGATGACATTCAGCTGGAGTTCGTGCGCATCGACCCCTTCGTGAGG
ACCTTCCTGAAGAGGAAAGGTGGCAAGTACAGTGTCCAGTTCAAGCTGCCTGACGTGTATGGTGTATTCC
AGTTTAAAGTGGATTACAACCGGCTAGGCTACACCCACCTGTACTCTTCCACCCAGGTGTCAGTGAGGCC
ACTCCAGCACACGCAGTATGAGCGCTTCATCCCCTCGGCCTATCCCTACTATGCCAGTGCCTTCTCCATG
ATGGCCGGGCTCTTCATCTTCAGCATCGTCTTCTTGCACATGAAGGAGAAGGAGAAGTCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

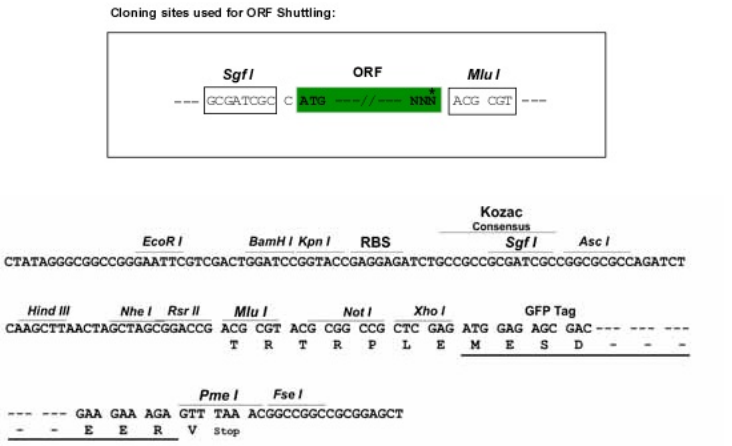
>MG207041 representing NM_007838
Red=Cloning site Green=Tags(s)

MKMDPRLAVRAWPLCGLLLAVLGCVCASGPRTLVLLDNLNVRDTHSLFFRSLKDRGFELTFKTADDPSLS
LIKYGEFLYDNLIIFSPSVEDFGGNINVETISAFIDGGGSVLVAASSDIGDPLRELGSECGIEFDEEKTA
VIDHHNYDVSDLGQHTLIVADTENLLKAPTIVGKSSLNPILFRGVGMVADPDNPLVLDILTGSSTSYSFF
PDKPITQYPHAVGRNTLLIAGLQARNNARVIFSGSLDFFSDAFFNSAVQKATPGAQRYSQTGNYELAVAL
SRWVFKEEGVLRVGPVSHHRVGEMAPPNAYTVTDLVEYSIIIEQLSNGKWVPFDGDDIQLEFVRIDPFVR
TFLKRKGGKYSVQFKLPDVYGVFQFKVDYNRLGYTHLYSSTQVSVRPLQHTQYERFIPSAYPYYASAFSM
MAGLFIFSIVFLHMKEKEKSD

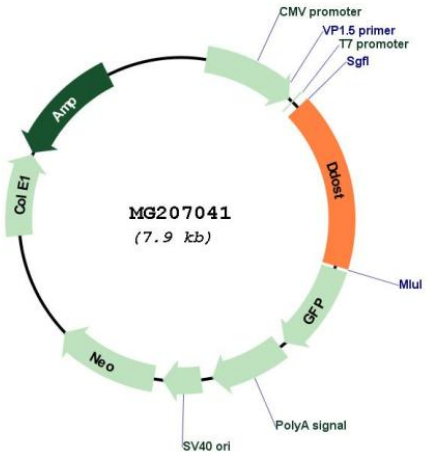
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_007838
ORF Size:	1323 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_007838.3
RefSeq Size:	2134 bp
RefSeq ORF:	1326 bp
Locus ID:	13200
UniProt ID:	O54734
Cytogenetics:	4 D3
Gene Summary:	Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity (By similarity). Required for the assembly of both SST3A- and SS3B-containing OST complexes (By similarity). [UniProtKB/Swiss-Prot Function]