

Product datasheet for **MG200451**

Dad1 (NM_010015) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dad1 (NM_010015) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dad1
Synonyms: AI323713
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200451 representing NM_010015
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCGTCTGTGGTGTCCGTCATCTCCCGTTCTGGAGGAGTACTTGAGCTCCACTCCGCAGCGGC
TGAAGTTGCTGGACGCCTATCTCCTTTATATACTGCTGACCGGGCGCTGCAGTTCGGCTACTGTCTCCT
CGTGGGCACCTTCCCTTCAACTCGTTCCTCTCTGGCTTCATCTTGTGTGGGCAGCTTCATCCTAGCG
GTTTGCCTGAGAATACAGATCAACCCCAACAAGCGGACTTCCAAGGCATCTCTCCGGAGCGAGCCT
TTGCTGACTTCTCTTTGCCAGCAGATCCTGCACCTTGTGTCATGAATTCGTTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200451 representing NM_010015
Red=Cloning site Green=Tags(s)

MSASVSVISRFL EEYLSSTPQRLLDAYLLYILLTGALQFGYCLLVGTFPFNSFLSGFISCVGSFIL
VCLRIQINPQNKADFQGISPERAFADFLFASTILHLVVMNFVG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

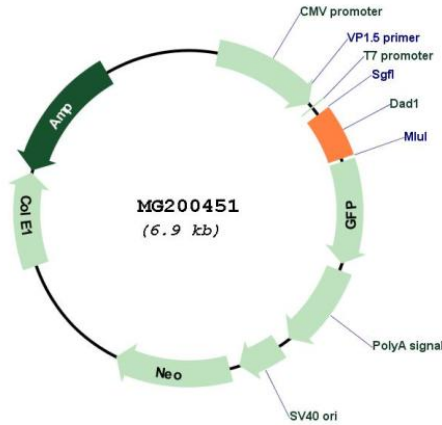


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Cloning Scheme:



Plasmid Map:



ACCN: NM_010015

ORF Size: 339 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:	<ol style="list-style-type: none">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_010015.1
RefSeq Size:	3457 bp
RefSeq ORF:	342 bp
Locus ID:	13135
UniProt ID:	P61804
Cytogenetics:	14 27.7 cM
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.[UniProtKB/Swiss-Prot Function]