

## Product datasheet for **RG200623**

### **DAD1 (NM\_001344) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DAD1 (NM\_001344) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DAD1  
**Synonyms:** OST2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200623 representing NM\_001344  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCGGCGTCGGTAGTGTCTGTCATTTTCGGGTTCTTAGAAGAGTACTTGAGCTCCACTCCGCAGCGTC  
TGAAGTTGCTGGACGCGTACCTGCTGTATATACTGCTGACCGGGCGCTGCAGTTCGGTTACTGTCTCCT  
CGTGGGGACCTTCCCTTCAACTCTTTCTCTCGGGCTTCATCTCTTGTGTGGGGAGTTTCATCCTAGCG  
GTTTGCCTGAGAATACAGATCAACCCACAGAACAAGCGGATTTCCAAGGCATCTCCCAGAGCGAGCCT  
TTGCTGATTTTCTTTGCCAGCACCATCTGCACCTTGTGTCATGAACCTTTGTTGGC

AC**GGGCCGCT**CGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200623 representing NM\_001344  
Red=Cloning site Green=Tags(s)  
MSASVSVISRFL EEYLSSTPQRLKLLDAYLLYILLTGALQFGYCLLVGTFPFNSFLSGFISCVGSFILAV  
VCLRIQINPQNKADFQGISPERAFADFLFASTILHLVVMNFVG

**TRPLE** - GFP Tag - V

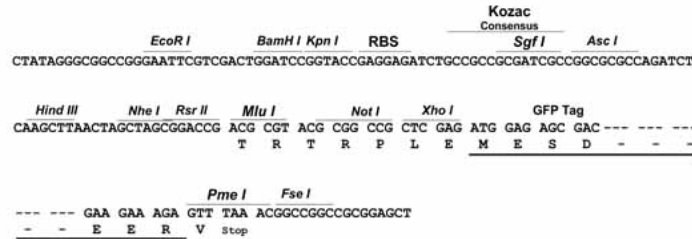
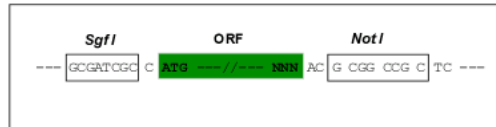
**Restriction Sites:** Sgfl-NotI



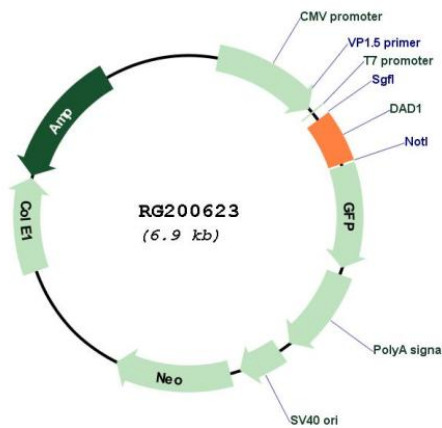
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001344

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001344.4</a>
<b>RefSeq Size:</b>	699 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	1603
<b>UniProt ID:</b>	<a href="#">P61803</a>
<b>Cytogenetics:</b>	14q11.2
<b>Domains:</b>	DAD
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>Gene Summary:</b>	DAD1, the defender against apoptotic cell death, was initially identified as a negative regulator of programmed cell death in the temperature sensitive tsBN7 cell line. The DAD1 protein disappeared in temperature-sensitive cells following a shift to the nonpermissive temperature, suggesting that loss of the DAD1 protein triggered apoptosis. DAD1 is believed to be a tightly associated subunit of oligosaccharyltransferase both in the intact membrane and in the purified enzyme, thus reflecting the essential nature of N-linked glycosylation in eukaryotes. [provided by RefSeq, Jul 2008]