

## Product datasheet for **SC119316**

### **DAD1 (NM\_001344) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DAD1 (NM_001344) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAD1
Synonyms:	OST2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001344 edited ATGTCGGCGTCGGTAGTGTCTGTCAATTCGCGGTTCTTAGAAGAGTACTTGAGCTCCACT CCGCAGCGTCTGAAGTTGCTGGACGCGTACCTGCTGTATATACTGCTGACCGGGGCGCTG CAGTTCGGTTACTGTCTCCTCGTGGGACCTTCCCTTCAACTCTTTTCTCTCGGGCTTC ATCTTTGTGTGGGAGTTTCATCCTAGCGGTTTGCCTGAGAATACAGATCAACCCACAG AACAAAGCGGATTTCCAAGGCATCTCCCCAGAGCGAGCCTTTGCTGATTTTCTTTTGC AGCACCATCCTGCACCTTGTGTCATGAACCTTTGTTGGCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001344 unedited GCACGAGGTGTGGNTCGACGGGCTCCTCAAGAGTTTGGGCGCGGACCGGAGTACCTTG CGTGCAGTTATGTCGGCGTCGGTAGTGTCTGTCAATTCGCGGTTCTTAGAAGAGTACTTG AGTCCACTCCGACGCTCTGAAGTTGCTGGACGCGTACCTGCTGTATATACTGCTGACC GGGCGCTGCAGTTCGGTACTGTCTCCTCGTGGGACCTTCCCTTCAACTCTTTTCTC TCGGGCTTCATCTTTGTGTGGGAGTTTCATCCTAGCGGTTTGCCTGAGAATACAGATC AACCCACAGAACAAGCGGATTTCCAAGGCATCTCCCCAGAGCGAGCCTTTGCTGATTTT CTTTTGCAGCACCATCCTGCACCTTGTGTCATGAACCTTTGTTGGCTGAATCATTCTC ATTTACTTAATTGAGGAGTAGGAGACTAAAAGAATGTTCACTCTTTGAATTTCTGGATA AGATTCTGGAGATGGCAGCTTATTGGACACATGGATTTTCTTCAGATTTGCACTTACTG CTAGCTCTGCTTTTATGC



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001344 unedited GGGGGGGGCCNNNCCNCACCCCCAGGCCTTTTGGCTGGAGTCTTTTAATTGGT AGAGCAAAGGGTTACATTTCAATGGAACGGCAGCAGGCTGGCATTAAATAATGTTTCGTTA CAAATTGTTCTGACACACAGTGAACCTCTGGGCTTTTCTCCTGCATAAAAAGCAGAGCTAG CAGTAAGTTGCAAATCTGAAGAAAATCCATGTGTCCAATAAGCTGCCATCTCCAGAATC TTATCCAGGAAATCAAAGAGTGAACATTCTTTTATTCTCCTACTCCTCAATTAATTA TGAGAATGATTTCAGCCAACAAAGTTCATGACAACAACGTCACGATGGTGTGGCAAACA GAAAATCATCTAAGGCTCGCTCTGGGGAGATGCCTCGGAAATCCGCTTTGTTCTGTGGGT TGATCTGTATTCTTATGCAAACCGCTATGATGAAACTTCCCCCTATGATATGAATCCCC GACACAAAATAGCTGAACGGGAAGGTCCCCACGAGGAGACAGTAACCGAACTTGCCCGCC CCGGTTAGTAATATACAGCTAGCACTTACTTCAACTTCTTACGCTGCGGCGCGCAC CTCAAATCTTTTCTACAACCGCCATATGTCACATACTACCCCGTATTTCTTACTCTG CCTCAATGTTCTCCGCTCCCTGTTTTATTTTTCCAACACCCCTTCCCCACCTTGT GCCCAACTTTTCCATGCCTTTTTTGTGTGTTTTTAAATAATTCTTCCCTTTCTCTAC CTACCTCCGCTCCTCCTCCCCCTCCACCGCCACTCTATACTCCCCCTTCTCTTCCC AGCGTCCCTTACACACCCCTCCACACACTCCCTACTCATCTTAAGAGTCTATACT CCCTACCTCTCACTTCACTCTGTTACTATTCCTCTCATTATTTCTCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001344
<b>Insert Size:</b>	830 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>	<a href="#">NM_001344.1</a> , <a href="#">NP_001335.1</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

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

**Gene Summary:** 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]