

Product datasheet for RC204049L3

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

Transaldolase 1 (TALDO1) (NM_006755) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Transaldolase 1 (TALDO1) (NM 006755) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Transaldolase 1

Synonyms: TAL; TAL-H; TALDOR; TALH

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

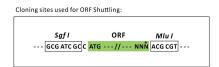
E. coli Selection: Chloramphenicol (34 ug/mL)

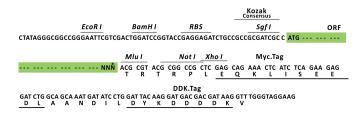
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204049).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_006755

ORF Size: 1011 bp





Transaldolase 1 (TALDO1) (NM_006755) Human Tagged Lenti ORF Clone - RC204049L3

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: <u>NM 006755.1</u>

RefSeq Size:1319 bpRefSeq ORF:1014 bpLocus ID:6888

 UniProt ID:
 P37837

 Cytogenetics:
 11p15.5

Domains: Transaldolase

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pentose phosphate pathway

MW: 37.5 kDa

Gene Summary: Transaldolase 1 is a key enzyme of the nonoxidative pentose phosphate pathway providing

ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This pathway can also maintain glutathione at a reduced state and thus protect sulfhydryl groups and cellular integrity from oxygen radicals. The functional gene of transaldolase 1 is located on chromosome 11 and a pseudogene is identified on chromosome 1 but there are conflicting map locations. The second and third exon of this gene were developed by insertion of a retrotransposable element. This gene is thought to be involved in multiple sclerosis.

[provided by RefSeq, Jul 2008]