

Product datasheet for **MG205018**

Taldo1 (NM_011528) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taldo1 (NM_011528) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Taldo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205018 representing NM_011528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGGTCCCCGGTAAAGCGCCAGAGGATGGAGTCCGCCTTGGACCAGCTCAAGCAGTTCACCACCG
TGGTGGCCGACACGGGTGATTTCAATGCCATCGATGAATACAAGCCCCAAGATGCCACCACCAACCCATC
CCTGATCCTGGCTGCAGCCAGATGCCTGCCTACCAAGAGCTGGTAGAGGAGGCCATTGCCTACGGCAAG
AAGCTGGGTGGCCTCAAGAGGAGCAGATTAATAAATGCCATTGACAACTTTTTGTGCTGTTTGGAGCAG
AAATATTAAGAAGATTCCAGGCCGTGTATCCACAGAAGTTGATGCAAGCTTTTCTTTGATAAGGATGC
CATGGTGGCCGAGCCAGGCGCCTCATCGAGCTTTACAAAGAAGCTGGGGTCGGCAAGGACAGAATTCTC
ATCAAGTTATCATCAACCTGGGAGGGATTAGGCTGAAAGGAGCTGGAGGAACAGCATGGCATCCACT
GCAACATGACACTGCTTTTCTCCTTCGCCAGGCTGTGGCCTGTGCTGAGGCGGGCGTGACGCTCATCTC
TCCCTTTGTGGGGCGCATCCTTGATTGGCATGTGGCAAACACAGACAAGAAATCCTATGAACCCAGGAG
GACCCTGGGGTCAAGAGTGTACCAAAATCTACAATACTACAAGAAGTTCGGCTACAAGACCATTGTCA
TGGGCGCCTCCTCCGCAACACGGGCGAGATCAAAGCACTGGCGGCTGTGACTTCTCACCATCTCCCC
GAAGCTCCTGGGGAGCTGCTCAAGGATAACAGCAAGCTGGCGCCTGCGCTCTGTCAAGCGGGCCAG
ACCAGTACTCGGAGAAGATACATCTGGACGAGAAGCCTTCCGTTGGCTGCACAACGAAGACCAATGG
CCGTGGAGAAGCTCTCCGACGGCATCCGCAAAATTTGCTGCTGATGCCATAAAGTTGGAGCGGATGCTCAC
GGAACGAATGTTACGCGCTGAGAACGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205018 representing NM_011528
Red=Cloning site Green=Tags(s)

MSGSPVKRQRMESALDQLKQFTTVVADTGDFNAIDEYKPDATTNP SLILAAAQMPAYQELVEEAIAYGK
 KLGGPQEEQIKNAIDKLFVLFGA EILKKIPGRVSTEVDARLSFDK DAMVARARRLIELYEAGV GKDRIL
 IKLSSTWEGIQAGKELEE QHGIHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPQE
 DPGVKSVTKIYNYKKFGYKTI VMGASFRTNTEIKALAGCDFLTISP KLLGELLKDNSKLAPALSVKAAQ
 TSDSEKIHLD EKA FRWLHNE DQMAVEKLSDGIRKFAADA I KLERMLTERM FSAEN GK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011528

ORF Size: 1011 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011528.4](#)

RefSeq Size: 1238 bp

RefSeq ORF: 1014 bp

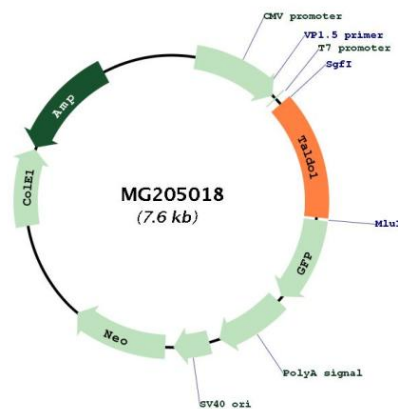
Locus ID: 21351

UniProt ID: [Q93092](#)

Cytogenetics: 7 F5

Gene Summary: This gene encodes a key enzyme of the nonoxidative pentose phosphate pathway that provides ribose-5-phosphate for nucleic acid synthesis and nicotinamide adenine dinucleotide phosphate (NADPH) for lipid biosynthesis. The encoded protein is important for maintaining structure and function of mitochondria. Studies in knockout mice identify that deficiency of this gene product is a cause of sperm dysmotility and male infertility. Deficiency of this protein has also been identified as a cause of hepatocarcinogenesis in mice. Two related pseudogenes have been identified on chromosome 10. [provided by RefSeq, Mar 2010]

Product images:



Circular map for MG205018