

Product datasheet for **MR205018**

Taldo1 (NM_011528) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taldo1 (NM_011528) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Taldo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205018 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGGTCCCCGGTAAAGCGCCAGAGGATGGAGTCCGCCTTGGACCAGCTCAAGCAGTTCACCACCG
TGGTGGCCGACACGGGTGATTTCAATGCCATCGATGAATACAAGCCCCAAGATGCCACCACCAACCCATC
CCTGATCCTGGCTGCAGCCAGATGCCTGCCTACCAAGAGCTGGTAGAGGAGGCCATTGCCTACGGCAAG
AAGCTGGGTGGCCTCAAGAGGAGCAGATAAAAATGCCATTGACAACTTTTTGTGCTGTTTGGAGCAG
AAATATTAAGAAGATTCAGGCCGTGTATCCACAGAAGTTGATGCAAGCTTTTCTTTGATAAGGATGC
CATGGTGGCCGAGCCAGGCGCCTCATCGAGCTTTACAAAGAAGCTGGGGTCGGCAAGGACAGAATTCTC
ATCAAGTTATCATCAACCTGGGAGGGATTGAGGCTGAAAGGAGCTGGAGGAACAGCATGGCATCCACT
GCAACATGACACTGCTTTTCTCCTTCGCCAGGCTGTGGCCTGTGCTGAGGCGGGCGTGACGCTCATCTC
TCCCTTTGTGGGGCGCATCCTTGATTGGCATGTGGCAAACACAGACAAGAAATCCTATGAACCCAGGAG
GACCCTGGGGTCAAGAGTGTACCAAAATCTACAACACTACAAGAAGTTCGGCTACAAGACCATTGTCA
TGGGCGCCTCCTCCGCAACACGGCGAGATCAAAGCAAGCTGGCGCCTGCGCTCTGTCAAGCGGCCAG
GAAGCTCCTGGGGAGCTGCTCAAGGATAACAGCAAGCTGGCGCCTGCGCTCTGTCAAGCGGCCAG
ACCAGTACTCGGAGAAGATACATCTGGACGAGAAGCCTTCCGTTGGCTGCACAACGAAGACCAATGG
CCGTGGAGAAGCTCTCCGACGGCATCCGCAAAATTTGCTGCTGATGCCATAAAGTTGGAGCGGATGCTCAC
GGAACGAATGTTACGCGCTGAGAACGGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205018 protein sequence
 Red=Cloning site Green=Tags(s)

MSGSPVKRQRMESALDQLKQFTTVVADTGDFNAIDEYKPQDATTNP SLILAAAQMPAYQELVEEAIAYGK
 KLGGPQEEQIKNAIDKLFVLFGA EILKKIPGRVSTEVDARLSFDKAMVARARRLIELYEAGV GKDRIL
 IKLSSTWEGIQAGKELEE QHGIHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPQE
 DPGVKSVTKIYNYKKFGYKTI VMGASFRNTGEIKALAGCDFLTISP KLLGELLKDN SKLAPALS VKAAQ
 TSDSEK IHLDEKAFRWLHNE DQMAVEKLS DGIRKFAADA I KLERMLTERMF SAEN GK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011528

ORF Size: 1014 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.

RefSeq: [NM_011528.4](#)

RefSeq Size: 1276 bp

RefSeq ORF: 1014 bp

Locus ID: 21351

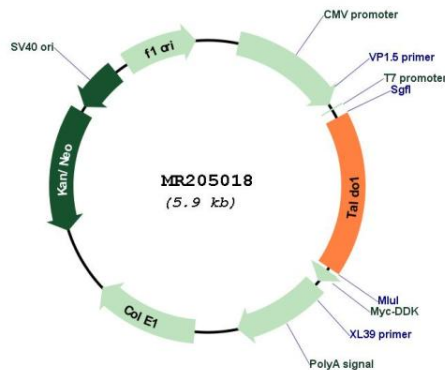
UniProt ID: [Q93092](#)

Cytogenetics: 7 F5

MW: 37.4 kDa

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 MR205018