

Product datasheet for **MR222491**

Dbi (NM_001037999) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbi (NM_001037999) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dbi
Synonyms:	ACBD1; Acbp; endozepine; EP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222491 representing NM_001037999 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGGGTTGGGGACAGCCGGTCTATTTCCCTCAGATATCCCGCAGCTCTTCTGGGATCCGAGCCC
AGCTCATAGCCTGGGGAGCGGAACCTTTCCCTTGAGATATGTAAGTCCACCCACGCCGGAAGTGC
CAGAGAGTTGCCGGCTGAATTTGACAAAGCCGCTGAGGAGGTGAAGCGCCTCAAGACTCAGCCAAGTAT
GAAGAGATGCTGTTTACAGTCACTTCAAACAAGCTACTGTGGCGATGTAATACAGATCGGCCGG
GGCTCTTGACCTCAAGGGCAAAGCCAAGTGGGACTCGTGAACAAGCTGAAAGGGACTTCAAGGAAAG
TGCCATGAAGACCTATGTGGAAAAGGTAGACGAGCTAAAGAAGAAATACGGAATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR222491 representing NM_001037999 Red=Cloning site Green=Tags(s)
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MLWVWGQPGLFPQISRSSGIRAQLIAWGAELFPLQICKTATHAGTARELPAEFDKAAEEVKRLKTQPTD
EEMLFYIYSHFKQATVGDVNTDRPGLLDLKGKAKWDSWNKLGKTSKESAMKTYVEKVDELKKKYGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/ja1537_b10.zip
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Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN: NM_001037999

ORF Size: 405 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_001037999.2](#), [NP_001033088.1](#)

RefSeq Size: 593 bp

RefSeq ORF: 408 bp

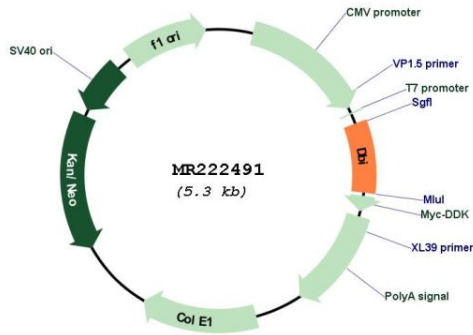
Locus ID: 13167

Cytogenetics: 1 E2.3

MW: 15.7 kDa

Gene Summary: Binds medium- and long-chain acyl-CoA esters with very high affinity and may function as an intracellular carrier of acyl-CoA esters. It is also able to displace diazepam from the benzodiazepine (BZD) recognition site located on the GABA type A receptor. It is therefore possible that this protein also acts as a neuropeptide to modulate the action of the GABA receptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222491