

Product datasheet for **MC225071**

Dmbt1 (NM_007769) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmbt1 (NM_007769) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmbt1
Synonyms:	CRP; CRP-[a]; CRP-[b]; Crpd; DBMT1; gp300; p80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225071 representing NM_007769 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGGGATCTCCACTGTTATCTTTGAAATATGTCTTTGTGGGGTCAAATTCGTCTACAGCATCTCAA
CAGCTGTTCCACAGATGGAACAGATTCTGTTTGGCCGTGAGGCTGGTGAATGGAGGAGACAGGTGTCA
GGGTCGAGTGGAGATCCTTACCAGGGTTCCTGGGGCACTGTGTGTGACGACAGCTGGGACCTCAATGAT
GCCAACGTGGTGTGCAGGCAGCTGGGCTGTGGCTTGGCCGTGTCTGCCCCGGGAAATGCCAGTTTGGAC
AGGGCTCAGGGCCATTGTCTGATGATGAGTGGCTGTGGAGGCTATGAGGACTATCTGTGGAGATGTTT
CCACCGAGGCTGGCTCTCTCATAACTGTGGACACCAGGAAGATGCTGGAGTCATCTGTTCAAGATTCTCAA
ACAAGCAGTCCCACACCTGGCTGGTGAATCCAGGAGGGACAAATAACGATGTGTTCTATCCAACCTGAAC
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AGCTGGGACCTCAATGATGCCAACGTGGTGTGCAGGCAGCTGGGCTGTGGCTTGCCCGTGTCTGCCCCAG
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 GGCATCAGTGACGCCAATGTGGTCTGCAGACAGCTCGGTTGTGGCTCTGCTCTGCTGTGCCAGGAAATG
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 CATATTCACAATCCCTACACAGGCTGTGGCACAATCAAACAGGCTGACAACGAGACCATCAACTACTCC
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GCAAGATGCTGCAGAACACCTGGGTCAACACCATGTACATCACCAACAACACAGTGGAGATCCAGGAAGT
TCAGTATGGCAATTTTCGACGTAAACATTTCTTCTACACATCCTCCTCTTTTCCAGTGACCAGC
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TGGCTCTGTTTGTGGACACCTGTGTGGCTTCGCCACATCCCAATGACTTCTCATCTTTGACATATGATCT
CATCCGGAGTGGATGCGTACGGGATGATACCTACCAATCCTACTCCTCGCCCTCACCACGCGTCTCCCGC
TTTAAATTCAGTTCTTTCCACTTCTGAACCGCTTCCCTCAGTGTACCTGCAGTGTAACTGGTAGTAT
GTCGAGCGTATGATACCTCCTCACGGTGCTACAGAGGCTGCGTAGTGAGATCTAAGAGGGATGTAGGCTC
CTACCAAGAAAAGGTGGATGTTGTCTGGGACCCATCCAGTTGCAATCCCCAGCAAGAAAAGAGGAGC
CTCGACTTGGCAGTGGAGGATGTGAAGAAGCCAGCAAGCTCCCAGGCCGTCTACCTACTGCAGCCATCT
TTGGCGGAGTCTTCTGGCCATGGTCTGGCTGTGGCAGCCTTACATTGGGAAGGAGGACACACATTGA
CCGTGGCCAACCTCCAAGTACTAAGTTGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_007769
Insert Size:	5841 bp
OTI Disclaimer:	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).
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:	<u>NM_007769.2, NP_031795.2</u>
RefSeq Size:	6259 bp
RefSeq ORF:	5841 bp
Locus ID:	12945
UniProt ID:	<u>Q60997</u>
Cytogenetics:	7 F3

Gene Summary:

May play roles in mucosal defense system and cellular immune defense. May play a role in liver regeneration. May be an important factor in fate decision and differentiation of transit-amplifying ductular (oval) cells within the hepatic lineage. May function as a binding protein in saliva for the regulation of taste sensation. May play a role as an opsonin receptor for SFTPD and SPAR in macrophage tissues throughout the body, including epithelial cells lining the gastrointestinal tract (By similarity). Required for terminal differentiation of columnar epithelial cells during early embryogenesis. Displays a broad calcium-dependent binding spectrum against both Gram-positive and Gram-negative bacteria, suggesting a role in defense against bacterial pathogens. Binds to a range of poly-sulfated and poly-phosphorylated ligands which may explain its broad bacterial-binding specificity. Inhibits cytoinvasion of *S. enterica*. Associates with the actin cytoskeleton and is involved in its remodeling during regulated exocytosis. Interacts with pancreatic zymogens in a pH-dependent manner and may act as a Golgi cargo receptor in the regulated secretory pathway of the pancreatic acinar cell. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.

Sequence Note: The RefSeq transcript was mostly derived from the reference genome assembly. The genomic coordinates were determined from alignments.