

Product datasheet for **RG200372**

Drebrin (DBN1) (NM_004395) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drebrin (DBN1) (NM_004395) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DBN1
Synonyms:	D0S117E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200372 representing NM_004395
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGGCTCAGCTTACGCGCCACCGCTGGAGCTGTGGCGGCTTACGAGGAGGTGATCCGAGAGG
 AGAGCGCGCCGACTGGGCTCTGTACACATATGAAGATGGCTCCGATGACCTCAAGCTTGCAGCATCAGG
 AGAAGGGGGCTTGCAGGAGCTTTCGGGACACTTTGAGAACCAGAAGGTGATGTACGGCTTCTGCAGTGTC
 AAGGACTCCCAAGCTGCTCTGCCAAAATACGTGCTCATCAACTGGGTGGGCGAAGATGTGCCTGATGCC
 GCAAGTGCCTTGTGCCAGCCACGTGGTAAGGTGGCAGAGTTCTTCCAGGGTGTGACGTGATCGTGAA
 CGCCAGCAGCGTGAAGACATAGACCGGGTGCCATCGGGCAGCGGCTCTAACGGGCTGGCGGACTC
 TCCAGCCTGTGTGCACCGACTGCGGCTGCGAGAGGATGAGAACGCAGAGCCCGTGGGCACCACCTACC
 AGAAGACGGATGCAGCTGTGAAATGAAGCGGATTAACCGAGAGCAGTTCTGGGAGCAGGCCAAGAAGGA
 AGAAGAGCTGCGGAAGGAGGAGGAGCGGAAGAAGGCCCTGGATGAGAGGCTCAGTTTCGAGCAGGAGCGG
 ATGGAGCAGGAGCGGCAGGAGCAAGAGGAGCGCAGCGGCGCTACCGGGAGCGGGAGCAGCAGATCGAGG
 AGCACAGGAGGAAACAGCAGACTTTAGAAGCGGAAGAGGCCAAGAGGCGGTTGAAGGAGCAGTCTATCTT
 TGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAGAGTCGGAGGTGGAGGAGGCAGCA
 GCTATTATTGCCAGCGGCTGACAACCAAGGGAGTTCTTCAAGCAGCAGGAAAGAGTCGCATCGGCCCT
 CTGCGGGCAGCTGTGATGTACCTCGCCCTTCAACCATCGACCAGGCAGCCACCTGGACAGCCACCGGAG
 GATGGCGCCACTCCCATCCCCACGCGGAGCCGCTGACTCCAGCACCCTCCACCCCTGTGCTGAG
 CAGATAGAGCGGGCCCTGGATGAGGTCACTCCTCGCAGCCTCCACCAGTCCACCGCCACCCCCACCAG
 CCCAAGAGACCCAGGAGCCAGCCCATCCTAGACAGTGAGGAGACCAGAGCAGCAGCAGCCCTCAGGCCTG
 GGCGGGCCCATGGAGGAGCCCTCAGGCACAGGCGCCTCCCGGGGGCCAGGCAGCCCTGCAGAGGAC
 TTGATGTTGATGAGTCTGCAGAGCAGGCTGCTCGGCTGCTCCCGTGGAGCCTGCCACAGCTGACGCCA
 CGGAGGTCCACGATGCAGCTGACACCATTTGAAACTGACACTGCCACTGCTGACACCACTGTTGCCAACAA
 CGTACCCCGCCGCCACCAGCCTCATTGACCTATGGCTGGCAACGGGGAGGGGCTCCACACTCCAG
 GGTGAGCCAGGGCCCCACGCCACCTCGGGTACTGAGGTACCCTGGCAGAGGTGCCCTGCTGGATG
 AGGTGGTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCTTCTCACTTTGATGAGCTGCC
 TGAGCCGCCAGCCACCTTCTGTGACCCAGAGGAAGTGAAGGGGAGCCCTGGCTGCCCCCAGACCCCA
 ACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGCAGGAGCCGAGCCACCTGCTAACCAATGGCG
 AGACCACCAGAAGGAGGGGACCCAGGCCAGTGAGGGGTACTTCAGTCAATCACAGGAGGAGGATTTGC
 CCAATCGGAAGAGCTCTGTGCCAAGGCTCCGCCTCCTGTGTTCTACAACAAGCCTCCAGAGATCGACATC
 ACATGCTGGGATGCAGACCCAGTTCAGAAGAGGAGGAGGGCTTCGAGGGTGGTAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200372 representing NM_004395
 Red=Cloning site Green=Tags(s)

MAGVSFSGHRLELLAAYEEVIREESAADWALYTYEDGSDDLKLAASGEGGLQELSGHFENQKVMYGFCSV
 KDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFFQGVQVIVNASSVEDIDAGAIGQRLSNGLARL
 SSPVLRHLRLREDENAEPVGTTYQKTDAAVEMKRINREQFWEQAKKEEELRKEEERKKALDERLRFEQER
 MEQERQEERERRREREQQIEEHRKQQTLEAEEAKRRLKEQSIFGDHRDEEEETHMKKSESEVEEAA
 AIIAQRPDNPREFFKQQERVASASAGSCDVPSPFNHRPGSHLDSHRRMAPTPIPTRSPSDSSTASTPVAE
 QIERALDEVTSSQPPPLPPPPPAQETQEPSPILDSEETRAAAPQAWAGPMEPPQAQAPPRGPGSPAED
 LMFMESAEQAVLAAPVEPATADATEVHDAADTIETDTATADTTVANNVPPAATSLIDLWPGNGEGASTLQ
 GEPRAPTPPSGTEVTLAEVPLLDVAPEPLLPAGEGCATLLNFDELPEPPATFCDPPEEVEGEPLAAPQTP
 TLPALLEELEQEPEPHLLTNGETTQKEGTQASEGYFSQSQEEFAQSEELCAKAPPPVFYKPKPEIDI
 TCWDADVPVEEEGFEGGD

TRTRPLE - GFP Tag - V

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:	<ol style="list-style-type: none">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_004395.1
RefSeq Size:	2910 bp
RefSeq ORF:	1950 bp
Locus ID:	1627
UniProt ID:	Q16643
Cytogenetics:	5q35.3
Domains:	ADF
Gene Summary:	The protein encoded by this gene is a cytoplasmic actin-binding protein thought to play a role in the process of neuronal growth. It is a member of the drebrin family of proteins that are developmentally regulated in the brain. A decrease in the amount of this protein in the brain has been implicated as a possible contributing factor in the pathogenesis of memory disturbance in Alzheimer's disease. At least two alternative splice variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]