

Product datasheet for **RG222368**

Drebrin (DBN1) (NM_080881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drebrin (DBN1) (NM_080881) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Drebrin
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:

>RG222368 representing NM_080881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGCATCCATGGCATGGTACTGCAGCACTGGCCAGCAGCCAGGCTGGAGGGATGGACCGGAGA
 GACAAGCTCTCGTCTCCTGCAGGCTCTGTACACATATGAAGATGGCTCCGATGACCTCAAGCTTGCAAGC
 ATCAGGAGAAGGGGGCTTGCAGGAGCTTTCGGGACACTTTGAGAACCAGAAGGTGATGTACGGCTTCTGC
 AGTGTCAAGGACTCCCAAGCTGCTCTGCCAAAATACGTGCTCATCAACTGGTGGGCGAAGATGTGCCTG
 ATGCCCGCAAGTGCCTTGTGCCAGCCAGTGGCTAAGGTGGCAGAGTCTTCCAGGGTGTGCAGCTGAT
 CGTGAACGCCAGCAGCGTGAAGACATAGACGCGGGTCCCATCGGGCAGCGGCTCTAACGGGCTGGCG
 CGACTCTCCAGCCCTGTCTGCACCGACTGCGGCTGCGAGAGGATGAGAACGCAGAGCCCGTGGGACCA
 CCTACCAGAAGACGGATGCAGCTGTGAAATGAAGCGGATTAACCGAGAGCAGTCTGGGAGCAGGCCAA
 GAAGGAAGAAGAGCTGCGGAAGGAGGAGGAGCGGAAGAAGGCCCTGGATGAGAGGCTCAGGTTGAGCAG
 GAGCGGATGGAGCAGGAGCGGCAGGAGCAAGAGGAGCGGAGCGGCGCTACCGGGAGCGGGAGCAGCAGA
 TCGAGGAGCACAGGAGGAAACAGCAGACTTTAGAACGCGGAAGAGGCCAAGAGGCGGTTGAAGGAGCAGTC
 TATCTTTGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAAGTCCGGAGTGGAGGAG
 GCAGCAGCTATTATTGCCAGCGGCTGACAACCCAAGGGAGTCTTCAAGCAGCAGGAAAGAGTGCAT
 CGGCTCTGCGGGCAGCTGTGATGTACCCTCGCCCTTCAACCATCGACCAGGCAGCCACCTGGACAGCCA
 CCGGAGGATGGCGCCACTCCCATCCCCACGGAGCCCGTCTGACTCCAGCACCCTCCACCCCTGTC
 GCTGAGCAGATAGAGCGGGCCCTGGATGAGGTACCTCCTCGCAGCCTCCACCAGTCCACCGCCACCCC
 CACCAGCCCAAGAGACCCAGGAGCCAGCCCATCCTAGACAGTGAGGAGACCAGAGCAGCCCTCA
 GGCTGGGCCGGCCCATGGAGGAGCCCTCAGGCACAGGCGCCTCCCGGGGGCCAGGAGCCCTGCA
 GAGGACTTGATGTTTATGGAGTCTGCAGAGCAGGCTGCTCGGCTGCTCCCGTGGAGCCTGCCACAGCTG
 ACGCCACGGAGATCCACGATGCAGCTGACACCATTGAAACTGACACTGCCACTGCTGACACCAGTGTTC
 CAACAACGTACCCCGCGCCAGCAGCCTCATTGACCTATGGCCTGGCAACGGGGAAGGGGCTCCACA
 CTCCAGGGTGAAGCCAGGCCCCACGCCACCCTCGGGTACTGAGGTACCCTGGCAGAGGTGCCCTGTC
 TGGATGAGGTGGTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCCTTCTCACTTTGATGA
 GCTGCCTGAGCCGCCAGCCACTTCTGTGACCCAGAGGAAGTGAAGGGGAGCCCTGGTGCACCCAG
 ACCCAACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGCAGGAGCCGGAGCCACCTGCTAACCA
 ATGGCGAGACCACCCAGAAGGAGGGGACCCAGGCCAGTGAGGGGACTTCAAGTCAATCACAGGAGGAGGA
 GTTTGCCCAATCGGAAGAGCTCTGTGCCAAGGCTCCGCCTCCTGTGTTTACAACAGCCTCCAGAGATC
 GACATCACATGCTGGGATGCAGACCCAGTTCAGAAAGAGGAGGGGCTTCGAGGGTGGTAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222368 representing NM_080881
 Red=Cloning site Green=Tags(s)

MAGHPWHGTAALASSQAWRDGRERQALVSCRALYTYEDGSDDLKLAASGEGGLQELSGHFENQKVMYGF
 SVKDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFFQGVIVNASSVEDIDAGAIQRLSNGLA
 RLSSPVLHRLRLREDENAEPVGTTYQKTDAAVEMKRINREQFWEQAKKEEELRKEEERKKALDERLRFQ
 ERMEQERQEERERRREREQQIEHRRKQQTLEAEEAKRRLKEQSIFGDHRDEEEETHMKKSESEVEE
 AAIIAQRPDNPREFFKQQERVASASAGSCDVSPFNHRPGSHLDSHRRMAPTPIPTRSPSDSSTASTPV
 AEQIERALDEVTSSQPPPLPPPPPAQETQEPSPILDSEETRAAAPQAWAGPMEEPPQAQAPPRGPGSPA
 EDLMFMESAEQAVLAAPVEPATADATEIHDAADTIEDTATADTTVANNVPPAATSLIDLWPGNEGAST
 LQGEPRAPTPPSGTEVTLAEVPLLDEVAPEPLLPAGEGCATLLNFDELPEPPATFCDEPEVEGEPLAAPQ
 TPTLPSALEEELQEPEPEPHLLTNGETTQKEGTQASEGYFSQSQEEFAQSEELCAKAPPVVFYKPPPEI
 DITCWDADPVPEEEEGFEGGD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_080881

ORF Size: 1953 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_080881.1](#), [NP_543157.1](#)

RefSeq Size: 3383 bp

RefSeq ORF: 1956 bp

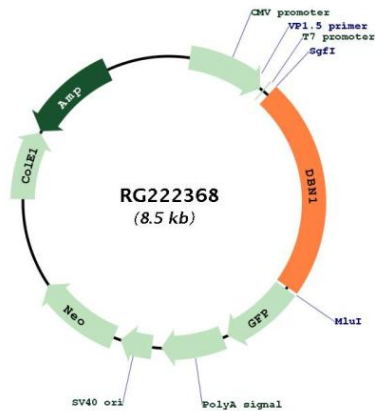
Locus ID: 1627

UniProt ID: [Q16643](#)

Cytogenetics: 5q35.3

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]

Product images:



Circular map for RG222368