

Product datasheet for **RG235630**

Diazepam Binding Inhibitor (DBI) (NM_001282634) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Diazepam Binding Inhibitor (DBI) (NM_001282634) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Diazepam Binding Inhibitor
Synonyms: ACBD1; ACBP; CCK-RP; EP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235630 representing NM_001282634.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGGGCGACCTCTGGCTCCTCCCGCCTGCCTCGCCAATCCGGGCACTGGGACAGAGGCTGAGTTT
GAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTTCATCTAT
GGCCACTACAACAAGCAACTGTGGCGACATAAATACAGAACGGCCCGGGATGTTGGACTTCACGGGC
AAGCCAAGTGGGATGCCTGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATC
AACAAAGTAGAAGAGCTAAAGAAAAATACGGGATA
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235630
Blue=ORF Red=Cloning site Green=Tag(s)

```
MWGLWLLPPASANPGTGEAEFEKAAEEVRHLKTKPSDEMLFIYGHYQATVGDINTERPGMLDFTG
KAKWDAWNLKGTSKEDAMKAYINKVEELKKKYGI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001282634

ORF Size: 312 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).

RefSeq: [NM_001282634.2](#)

RefSeq Size: 720 bp

RefSeq ORF: 315 bp

Locus ID: 1622

UniProt ID: [P07108](#)

Cytogenetics: 2q14.2

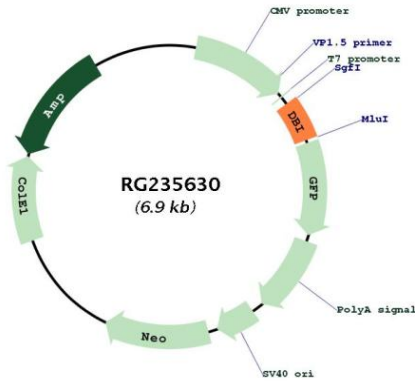
Protein Families: Druggable Genome

Protein Pathways: PPAR signaling pathway

MW: 11.8 kDa

Gene Summary: This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG235630