

GABARAPL2 cDNA

Catalog Number: ATGD0253

PRODUCT INFORMATION

Catalog number

ATGD0253

Product type

cDNA

Species

Human

NCBI Accession No.

NP_009216.1

Alternative Names

Gamma-aminobutyric acid receptor-associated protein-like 2, GABA(A) receptor-associated protein-like 2, ATG8, ATG8C, GATE-16, GATE16, GEF2, FLC3A

mRNA Refseq

NM_007285.6

OMIM

607452

Chromosome location

16q22.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

354bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

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General Description

Ubiquitin-like modifier involved in intra-Golgi traffic. Modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1 (By similarity). Involved in autophagy. Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation

DATA

Sequence nucleotides

ATGAAGTGGATGTTCAAGGAGGACCACTCGCTGGAACACAGATGCGTGGAGTCCGCGAAGATTCGAGCGAAATATCCCGA
CAGGGTTCCGGTGATTGTGGAAAAGGTCTCAGGCTCTCAGATTGTTGACATTGACAAACGGAAGTACTTGTTCCATCTGAT
ATCACTGTGGCTCAGTTCATGTGGATCATCAGGAAAAGGATCCAGCTTCCTTCTGAAAAGGCGATCTTCCTGTTTGTGGATA
AGACAGTCCCACAGTCCAGCCTAACTATGGGACAGCTTTACGAGAAGGAAAAAGATGAAGATGGATTCTTATATGTGGCCTA
CAGCGGAGAGAACTTTTGGCTTCTGA

Transaction Sequence

MKWMFKEDHS LEHRCVESAK IRAKYPDRVP VIVEKVSGSQ IVDIDKRKYL VPSDITVAQFMWIIRKRIQL PSEKAIFLV
DKTVPQSSLT MGQLYEKEKD EDGFLYVAYS GENTFGF