

Product datasheet for **RG225373**

GAP43 (NM_001130064) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GAP43 (NM_001130064) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GAP43
Synonyms: B-50; GAP-43; PP46
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225373 representing NM_001130064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAAAGTCCTGCTCTGAATTATGCCACCCCGCACTCCACTTTTTACCTTGCCTGGGAGGCTTGAGGA
 AAAATCTTCAGAGAGCAGTTCGACCTAGTCCTTATTCACTTGGCTTCTTGACTTCTGGATTTCAAGGGT
 TGAAAAAATGATGACGACCAAAAGATTGAACAAGATGGTATCAAACCAGAAGATAAAGCTCATAAGGCC
 GCAACCAAAATTCAGGCTAGCTTCCGTGGACACATAACAAGGAAAAAGCTCAAAGGAGAGAAGAAGGATG
 ATGTCCAAGCTGCTGAGGCTGAAGCTAATAAGAAGGATGAAGCCCCTGTTGCCGATGGGGTGGAGAAGAA
 GGGAGAAGGCACCACTACTGCCGAAGCAGCCCCAGCCACTGGCTCCAAGCCTGATGAGCCCGCAAAGCA
 GGAGAACTCCTTCCGAGGAGAAGAAGGGGAGGGTATGCTGCCACAGAGCAGGCAGCCCCCAGGCTC
 CTGCATCCTCAGAGGAGAAGGCCGGCTCAGCTGAGACAGAAAAGTGCCACTAAAGCTTCCACTGATAACTC
 GCCGTCTCCAAGGCTGAAGATGCCCAAGGAGGAGCCTAAACAAGCCGATGTGCCTGCTGCTGTC
 ACTGCTGCTGCTGCCACCACCCCTGCCGAGAGGATGCTGCTGCCAAGGCAACAGCCAGCCTCCAACGG
 AGACTGGGAGAGCAGCCAAGCTGAAGAGAACATAGAAGCTGTAGATGAAACCAACCTAAGGAAAGTGC
 CCGGCAGGACGAGGGTAAAGAAGAGAACCTGAGGCTGACCAAGAACATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225373 representing NM_001130064
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MTKSCSELCHPALHFLPCLGGLRKNLQRAVRPSPYSLGFLTFWISRVEKNDDQKIEQDGKIPEDKAHKA
 ATKIQASFRGHI TRKKLKGEKKDDVQAAEAEANKKDEAPVADGVEKKGEGTTTAEAAPATGSKPDEPGKA
 GETPSEEKKGEGDAATEQAAPQAPASSEEKAGSAETESATKASTDNSPSSKAEDAPAKEEPKQADVPAAV
 TAAAATTPAAEDAAAKATAQPPTETGESSQAEENIEAVDETKPKESARQDEGKEEPEADQEHA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130064

ORF Size: 822 bp

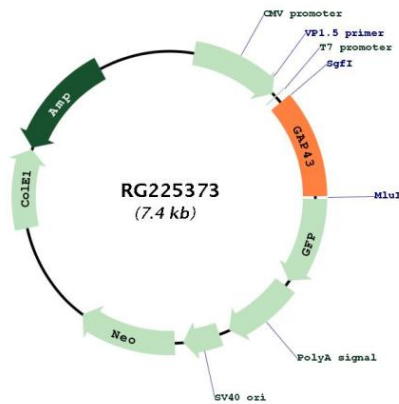
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001130064.2](#)
- RefSeq Size:** 2143 bp
- RefSeq ORF:** 825 bp
- Locus ID:** 2596
- UniProt ID:** [P17677](#)
- Cytogenetics:** 3q13.31
- Gene Summary:** The protein encoded by this gene has been termed a 'growth' or 'plasticity' protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration. This protein is considered a crucial component of an effective regenerative response in the nervous system. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG225373