

Product datasheet for **RC225373**

GAP43 (NM_001130064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GAP43
Synonyms:	B-50; GAP-43; PP46
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225373 representing NM_001130064
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGACAAAGTCCTGCTCTGAATTATGCCACCCCGCACTCCACTTTTTACCTTGCTGGGAGGCTTGAGGA
AAAATCTTCAGAGAGCAGTTTCGACCTAGTCCTTATCACTTGGCTTCTGACTTCTGGATTTCAGGGT
TGAAAAAATGATGACGACCAAAAGATTGAACAAGATGGTATCAAACCAGAAGATAAAGCTCATAAGGCC
GCAACCAAAATTCAGGCTAGCTTCCGTGGACACATAACAAGGAAAAAGCTCAAAGGAGAGAAGAAGGATG
ATGTCCAAGCTGCTGAGGCTGAAGCTAATAAGAAGGATGAAGCCCTGTTGCCGATGGGGTGGAGAAGAA
GGGAGAAGGCACCACTACTGCCGAAGCAGCCCCAGCCACTGGCTCCAAGCCTGATGAGCCCGCAAAGCA
GGAGAACTCCTTCGAGGAGAAGAAGGGGAGGGTGTGCTGCCACAGAGCAGGCAGCCCCCAGGCTC
CTGCATCCTCAGAGGAGAAGGCCGGCTCAGCTGAGACAGAAAGTGCCTAAAGCTTCCACTGATAACTC
GCCGTCCTCCAAGGCTGAAGATGCCCCAGCCAAGGAGGAGCCTAAACAAGCCGATGTGCTGCTGTGTC
ACTGCTGCTGCTGCCACCAACCCTGCCGACAGAGGATGTGCTGCCAAGGCAACAGCCAGCCTCCAAACGG
AGACTGGGGAGAGCAGCCAAGCTGAAGAGAACATAGAAGCTGTAGATGAAACCAACCTAAGGAAAGTGC
CCGGCAGGACGAGGGTAAGAAGAGGAACCTGAGGCTGACCAAGAACATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225373 representing NM_001130064
Red=Cloning site Green=Tags(s)

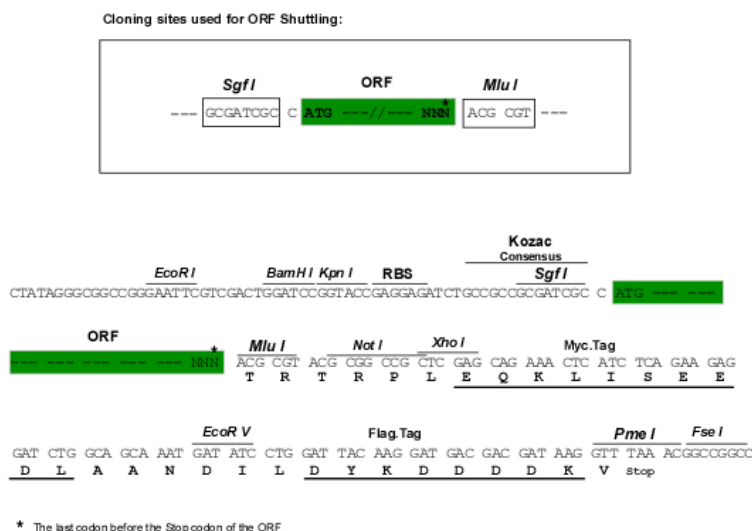
MTKSCSELCHPALHFLPCLGGLRKNLQRAVRSPSYSLGFLTFWISRVEKNDDQKIEQDGIKPEDKAHKA
ATKIQASFRGHITRKLLKGEKKDDVQAAEAENKKDEAPVADGVEKKGGEGTTTAAAPATGSKPDEPGKA
GETPSEEKKGEGDAATEQAAPQAPASSEKAGSAETESATKASTDNSSPKAEDAPAKEEPKQADVPAAV
TAAATTPAAEDAAAKATAOPPTTETGESSOAENIEAVDETKPKESARODEGKEEEEPADOEHA

TRTRPLFOKLISEFDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130064

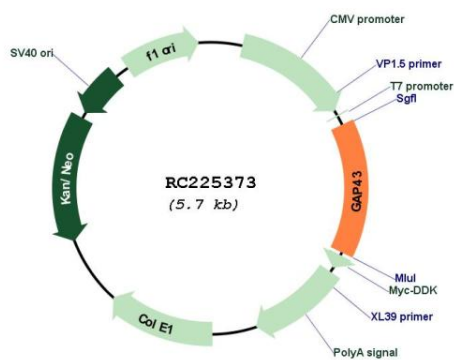
ORF Size: 822 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001130064.2</u>
RefSeq ORF:	825 bp
Locus ID:	2596
UniProt ID:	<u>P17677</u>
Cytogenetics:	3q13.31
MW:	28.6 kDa
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 RC225373