

Product datasheet for RC203175

GAP43 (NM_002045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAP43 (NM_002045) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAP43
Synonyms:	B-50; GAP-43; PP46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203175 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGCTGTATGAGAAGAACCAAACAGGTTGAAAAAATGATGACGACCAAAGATTGAACAAGATG
GTATCAAACCAGAAGATAAAGCTCATAAGGCCGCAACCAAATTCAGGCTAGCTTCCGTGGACACATAAC
AAGGAAAAGCTCAAAGGAGAGAAGAAGGATGATGTCCAAGCTGCTGAGGCTGAAGCTAATAAGAAGGAT
GAAGCCCTGTTGCCGATGGGGTGGAGAAGAAGGAGAAGGCACCACTACTGCCGAAGCAGCCCCAGCCA
CTGGCTCCAAGCCTGATGAGCCCGCAAAGCAGGAGAACTCCTTCCGAGGAGAAGAAGGGGAGGGTGA
TGCTGCCACAGAGCAGGCAGCCCCAGGCTCCTGCATCCTCAGAGGAGAAGGCCGGCTCAGCTGAGACA
GAAAGTGCCACTAAAGCTTCCACTGATAACTCGCCGTCCTCCAAGGCTGAAGATGCCCAAGGAGG
AGCCTAAACAAGCCGATGTGCCTGCTGCTGCTCACTGCTGCTGCCACCACCCCTGCCGAGAGGATGC
TGCTGCCAAGGCAACAGCCAGCCTCCAACGGAGACTGGGGAGAGCAGCCAAGCTGAAGAGAACATAGAA
GCTGTAGATGAAACCAACCTAAGGAAAGTGCCCGCAGGACGAGGGTAAAGAAGAGGAACCTGAGGCTG
ACCAAGAACATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203175 protein sequence
 Red=Cloning site Green=Tags(s)

MLCCMRRTKQVEKNDDDDQKIEQDGIKPEDKAHKAATKIQASFRGHITRKKLKGEKKDDVQAAEAEANKKD
 EAPVADGVEKKGEGTTTAEAAPATGSKPDEPGKAGETPSEEKKGEGDAATEQAAPQAPASSEKAGSAET
 ESATKASTDNSSKAEDAPAKEEPKQADVPAAVTAAAAATTPAAEDAAAKATAQPPTETGESSQAEENIE
 AVDETKPKESARQDEGKEEEPEADQEHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

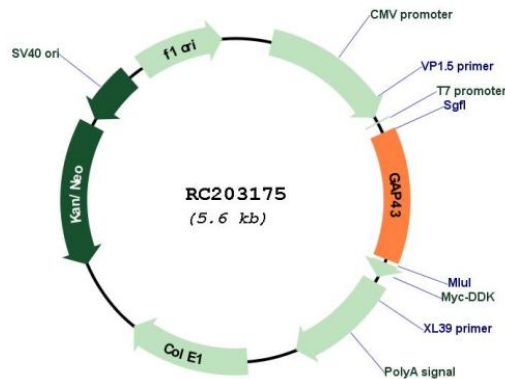
Chromatograms: https://cdn.origene.com/chromatograms/mk6145_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



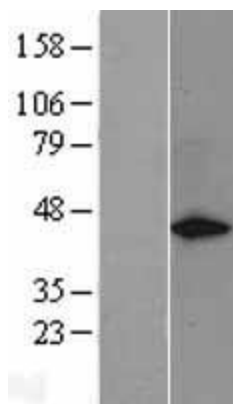
Plasmid Map:



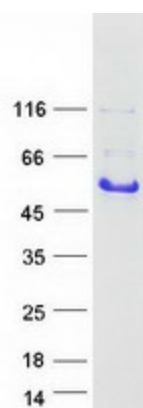
ACCN: NM_002045

ORF Size: 714 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:	<ol style="list-style-type: none">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_002045.4
RefSeq Size:	1747 bp
RefSeq ORF:	717 bp
Locus ID:	2596
UniProt ID:	P17677
Cytogenetics:	3q13.31
Domains:	IQ
MW:	24.8 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:

Western blot validation of overexpression lysate (Cat# [LY400750]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GAP43 protein (Cat# [TP303175]). The protein was produced from HEK293T cells transfected with GAP43 cDNA clone (Cat# RC203175) using MegaTran 2.0 (Cat# [TT210002]).