

Product datasheet for SC118868

GAP43 (NM_002045) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GAP43 (NM_002045) Human Untagged Clone
Tag: Tag Free
Symbol: GAP43
Synonyms: B-50; GAP-43; PP46
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002045 edited
 GAATTCGGCAGCAGGGGAAGAAGGCAAGGACGAGACAACCATGTGCTGTATGAGAA
 GAACCAACAGGTTGAAAAAATGATGACGACCAAAAGATTGAACAAGATGGTATCAAAC
 CAGAAGATAAAGCTCAT AAGGCCCAACCAAAATTCAGGCTAGCTTCCGTGGACACATAA
 CAAGGAAAAAGCTCAAAGGAGAGAAGAAGGATGATGTCCAAGCTGCTGAGGCTGAAGCTA
 ATAAGAAGGATGAAGCCCTGTTGCCGATGGGGTGGAGAAGAAGGGAGAAGGCACCACTA
 CTGCCGAAGCAGCCCCAGCCACTGGCTCCAAGCCTGATGAGCCCGCAAAGCAGGAGAAA
 CTCCTTCCGAGGAGAAGAAGGGGAGGGTATGCTGCCACAGAGCAGGCAGCCCCCAGG
 CTCCTGCATCCTCAGAGGAGAAGGCCGGCTCAGCTGAGACAGAAAGTGCCACTAAAGCTT
 CCACTGATAACTCGCCGCTCCAAGGCTGAAGATGCCCCAGCCAAGGAGGAGCCTAAAC
 AAGCCGATGTGCCTGCTGCTGCTGCTGCTGCTGCCACCACCCTGCCGAGAGGATG
 CTGCTGCCAAGGCAACAGCCCAGCCTCCAACGGAGACTGGGAGAGCAGCCAAGCTGAAG
 AGAACATAGAAGCTGTAGATGAAACCAACCTAAGGAAAGTGCCCGCAGGACGAGGGTA
 AAGAAGAGGAACCTGAGGCTGACCAAGAACATGCCTGAACTCTAAGAAATGGCTTTCCAC
 ATCCCCACCCTCCCCTCTCCTGAGCCTGTCTCTCCCTACCCTCTTCTCAGCTCCACTCTG
 AAGTCCCTTCTGTCTGCTCAGTCTGTGAGTCTGTCTTTCCACCCTAGCCCTCT
 TTCTCTGTGTGGCAAACATTA AAAAAAAAAAAAAAAAAAGCAGGAAAGATCCCAAGTCAA
 CAGTGTGGCTTAAACATTTTTTTTCTTGGTGTGTTATGGCAAGTTTTTGGTAATGAT
 GATTCAATCATTTGGGAAATTTGCACTGTATCCAAGTTATTTGATCTGGTGGTGTG
 GCCTGTGGGAGTCCACTTCTCTCTCTCTCTCTCTGTTCCAAGTGTGTGCAATG
 TCCGTTTCATCTGAGGAGTCCAAAATATCGAGTGAATTCAAAATCATTTTTGTTTTCTC
 CTTTTCAATGTGATGGAATGAACAAAAAGGAAAAAATCAAAAAACCAGTTTGTTTTAA
 AAATAAATAAATAAGCAAATGTGCAATTAGCGTAAACTTGCGGCTCTAAGGCTCCTTT
 TTCAACCCGAATATTAATAAATCATGAGAGTAATCAAAAAAAAAAAAAAAAAAACTCGAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002045 unedited GTGGATTTTGTAAATACGATTTACTATAGGGCGGCCGGAATTCGGCACGAGGGGAAGAAG TCAGGGACGAGACAACCATGCTGTGCTGTATGAGAAGAAACAAACAGGTTGAAAAAAT GATGACGACAAAAGATTGAACAAGATGGTATCAAACCAGAAGATAAAGCTCATAAGGCC GCAACCAAAATTCAGGCTAGCTTCCGTGGACACATAACAAGGAAAAAGCTCAAAGGAGAG AAGAAGGATGATGTCCAAGCTGCTGAGGCTGAAGCTAATAAGAAGGATGAAGCCCCTGTT GCCGATGGGGTGGAGAAGAAGGGAGAAGGCACCACTACTGCCGAAGCAGCCCCAGCCACT GGCTCCAAGCCTGATGAGCCCGCAAAGCAGGAGAACTCCTTCCGAGGAGAAGAAGGGG GAGGGTGTGCTGCCACAGAGCAGGCAGCCCCCAGGCTCCTGCATCCTCAGAGGAGAAG GCCGGCTCAGCTGAGACAGAAAGTGCCACTAAAGCTTCCACTGATAACTCGCCGCTCCTCC AAGGCTGAAGATGCCCCAGCAAGGAGGAGCCTAAACAAGCCGATGTGCCTGCTGCTGTC ACTGCTGCTGCTGCCACCACCCCTGCCGCAGAGGATGCTGCTGCCAAGGCAACAGCCCAG CCTCCAACGGAGACTGGGGAGAGCAGCCAAGCTGAAGAGACATAGAAGCTGTAGATGAAA CCANACCTAAAGAAAGTGCCCCGAGGACGAGGGTTATGAAGAGGACCCTGAGCTGACCA AGACATGCCTGACTCTAAGAAATGGCTTTCACATNCCACCCTCCCTTTCTGAGCCTGGTC TCCTACCTCTNTCAGCTCACTCTGAAGCCCTCCGTCCTGCTAAGTTTGTGAGTTTGT CCTTCCACCCACTACCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002045 unedited GCAACTTTCAGGGCCAGGNAAGCACTGGGGAGGGTTCACAGGGATGCCACCCGGGATC TGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT TTGATTACTCTCATGATTTATTAATATTCGGGTTGAAAAAGGAGCCTTAGAGCCGCAAGT TTACGCTAATTGGCACATTTGCTTTATTTATTTATTTTTAAAACAAACTGGGTTTTTTGA ATTTTTTCTTTTTGTTCAATCCATCACATTGAAAAGGAGGAAAACAAAATGATTTTGA ATTCACTCGATATTTTGGACTCCTCAGATGAACGGAACATTGCACACACACTTGGAACAG AGAGAGAGAGAGAGGAAAGTGGACTCCACAGGGCCACACGCACCAGATCAAATAACN NNGATACAGTGCAAGAATTTCCCAAAATGATTGAATCATCATTACAAAAAATTGCCATA ACAACACCAAGAAAACAAAAATGTTTAAAGCCACACTGTTTGACTTGGGATCTTTCCTGCT TTTTTTTTTTTTTTAAATGTTTGCCACACAGAGAGAAAGAGGGCTAGTGGGTGGGAAAGG ACAGACTCACAGACGTGAGCAGGACAGGAAGGGACTTCANAGTGGAGCTGAGAAAAGGGT AGGGAGAGACAGGCTCANGAGAGGGAGGGTGGGGATGTGAAAGCCATTTCTTAGAGTTC AGGCATGTTCTTGGTCGCCTTTNNNTCTTTTTTACCCTCGTCCTGCCGGGCACTTNT TTAGGTTTGGTTCATCTACAGCTTCTATGGTCTCTTTAGCTTGGCTGCTCCTCCAGTCT CGTTGGAAGCTGGGCTGGTGCCTTGGCACCACATCCTCTGCGCAGGGGTGGTGGCACACA ACAGTACAGCACAGGCCATCGCTTGNTAGGCTCTNCTGGCTGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002045
Insert Size:	1470 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002045.2](#), [NP_002036.1](#)

RefSeq Size: 1225 bp

RefSeq ORF: 717 bp

Locus ID: 2596

UniProt ID: [P17677](#)

Cytogenetics: 3q13.31

Domains: IQ

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]
Transcript Variant: This variant (2) lacks an internal exon and has an upstream AUG start codon, as compared to variant 1. The resulting isoform 2 has a shorter and distinct N-terminus, as compared to variant 1.