

Product datasheet for **RC218198**

Growth Arrest Specific Protein 7 (GAS7) (NM_201433) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth Arrest Specific Protein 7 (GAS7) (NM_201433) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Growth Arrest Specific Protein 7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218198 representing NM_201433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGCGCTCGCTGCCGGACCTGTACCCCTTCTCCGGGAGCGGCACGGCCAGGGGCTGCGCTTCG
 CCGCGGGCGAGCTGATCACGCTGCTGCAGTCCCGGACGGCGGCTGGTGGGAAGGCGAGAAGGAGGACGG
 GCTCCGTGGCTGGTTCCCGGCGAGCTACGTGCAGTTGCTGGAGAAGCCTGGAATGGTCCCCCTCCGCCG
 GGAGAAGAAAGCCAGACGGTCACTCTCCACCTGGCTGGCAGAGCTACCTGTCGCCTCAGGGCCGCGGT
 ACTATGTCAACACGACCACCAATGAGACCACCTGGGAACGTCCCAGCAGTTCTCTGGGATTCCAGCCAG
 CCCTGGCTCTCACAGGAGCTCTCTGCCTCCAACAGTGAATGGATACCACGCATCAGGGACCCAGCGCAC
 CCTCCAGAGACTGCCACATGAGTGTCCGAAAATCCACCGGTGATCCCAGAACCTGGGATCCTCATCGC
 CAAGCAAAAAGCAGAGCAAGGAAAACACCATACAATAAACTGTGTGACGTTCCCTACCCAGACACGAT
 GCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTACTGCGACTACTTCTGGGCTGATAAGAAGGAC
 CCCAAGGCAACGGCACCGTGGCTGGGTTTGAACTACTGCTCCAGAAACAGCTGAAGGGCAACAATGC
 AGAAGGAAATGTCAGAATTCATCCGGGAAAGGATAAAGATTGAAGAAGACTATGCGAAGAAGCTTAGCTAA
 GCTCTCTCAGAATCCTTGGCTTACAGGAGGAAGGCTCCTTGGGAGAGGCGTGGGCCAGGTGAAGAAG
 AGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTTCTCTGCCAAGCTTACAGCGAGGTGGAGAAGCCCC
 TGATGAACTTCCGTGAGAATTCAGAAAGACATGAAGAAGTGCAGCCACCACATTGCCGACCTTCGCAA
 GCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCGAAAGCCCTCACAGAGCGGCAGAGAGACCTG
 GAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCCGCGGA
 GAAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAATG
 GTTTGAAGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGG
 CAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAGCACAGTTCGAGCCCG
 TGGATCAGCTGCTTCGAAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGTCAGAGAGCACAAGACGGG
 CAACATCCGCCCTGTGGACATGGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218198 representing NM_201433
 Red=Cloning site Green=Tags(s)

MSGARCRTLYPFSGERHGQLRFAAGELITLLQVPDGGWWEKEKEDGLRGWFPASYVQLLEKPGMVPPPP
 GEESQTVILPPGWQSYLSPQGRYYVNTTNETTWERPSSSPGIPASPGSHRSSLPPTVNGYHASGTPAH
 PPETAHMSVRKSTGDSQNLGSSSPSKKQSKENTITINCVTFPHPDMPQQLLKPTESYCDYFWADKKD
 PQNGTAVAGFELLQKQLKQKQKQKEMSEFIRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEAWAQVKK
 SLADEAEVHLKFSAKLHSEVEKPLMNFRENFKDMKKCDHHIADLRKQLASRYASVEKARKALTERQRDL
 EMKTQQLKIKLSNKTEEDIKKARRKSTQAGDLMRCVDLYNQAQSKWFEEMVTTLELERLEVERVEMIR
 QHLQYTLRHETDMFNQSTVEPVDQLLRKVDPAKDRELWVREHKTGNIRPVDMEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_d10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_201433

ORF Size: 1428 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:

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_201433.2](#)

RefSeq Size: 8211 bp

RefSeq ORF: 1431 bp

Locus ID: 8522

UniProt ID: [O60861](#)

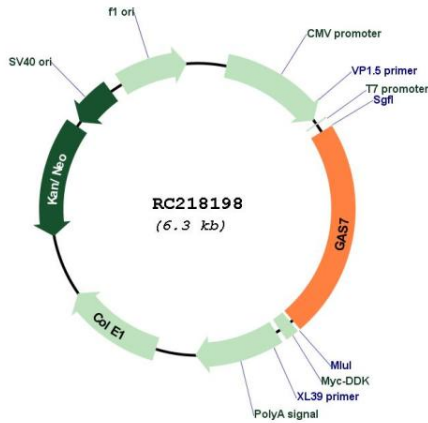
Cytogenetics: 17p13.1

Protein Families: Transcription Factors

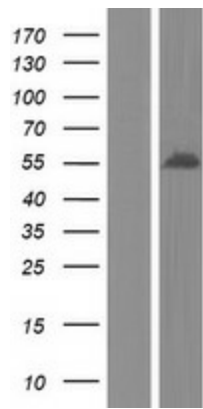
MW: 54.2 kDa

Gene Summary: Growth arrest-specific 7 is expressed primarily in terminally differentiated brain cells and predominantly in mature cerebellar Purkinje neurons. GAS7 plays a putative role in neuronal development. Several transcript variants encoding proteins which vary in the N-terminus have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218198



Western blot validation of overexpression lysate (Cat# [LY404415]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218198 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).