

Product datasheet for RC215256

Growth Arrest Specific Protein 7 (GAS7) (NM_003644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth Arrest Specific Protein 7 (GAS7) (NM_003644) 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)
ORF Nucleotide Sequence:	>RC215256 representing NM_003644 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGTCCAATATGGAGAACAGCTTTGACGATGTTTCTTGCCTCTCTCCCCAGAACCTGGGATCCTCATCGC
CAAGCAAAAAGCAGAGCAAGGAAAACACCATCACATAAACTGTGTGACGTTCCCTCACCCAGACACGAT
GCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTACTGCGACTACTTCTGGGCTGATAAGAAGGAC
CCCAAGGCAACGGCACCGTGGCTGGGTTTGAAGTACTGCTCCAGAAACAGCTGAAGGGCAAACAAATGC
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GCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGAAAGCCCTCACAGAGCGGCAGAGAGACCTG
GAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGA
GAAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACAGGCCAGTCAAATG
GTTTGAAGAGATGGTGACCACACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGG
CAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACAGTCGAGCCCG
TGGATCAGCTGCTTCGAAAAGTGGACCCGCCAAAGACAGGGAGCTGTGGGTGAGAGGACAAGACGGG
CAACATCCGCCCTGTGGACATGGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215256 representing NM_003644
Red=Cloning site Green=Tags(s)

MSNMENSFDDVSCLSPQNLGSSSPSKKQSKENTITINCVTFPHPDMPQQLLKPTWEVSYCDYFWADKKD
 PQNGTVAGFELLQKQLKQKQKQKEMSEFIRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEAWAQVKK
 SLADEAEVHLKFSAKLHSEVEKPLMNFRENFKKDMKKCDHHIADLRKQLASRYASVEKARKALTERQRDL
 EMKTQQLEIKLSNKTEEDIKKARRKSTQAGDDLRCVDLYNQAQSKWFEEMVTTLELERLEVERVEMIR
 QHLQCYTQLRHETDMFNQSTVEPVDQLLRKVDPKDKRELWVREHKGTGNIRPVDMEI

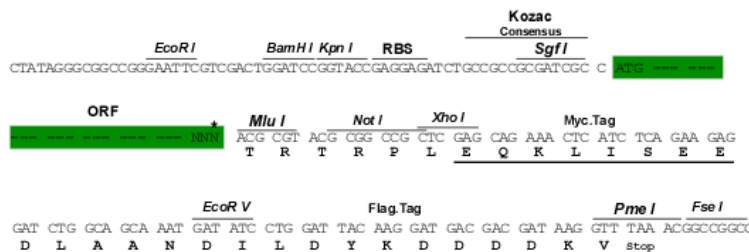
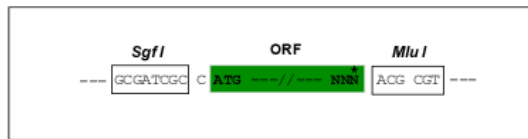
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2920_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003644

ORF Size: 1008 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_003644.3](#)

RefSeq Size: 7773 bp

RefSeq ORF: 1011 bp

Locus ID: 8522

UniProt ID: [O60861](#)

Cytogenetics: 17p13.1

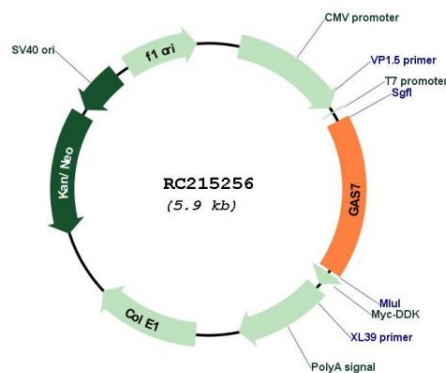
Domains: FCH

Protein Families: Transcription Factors

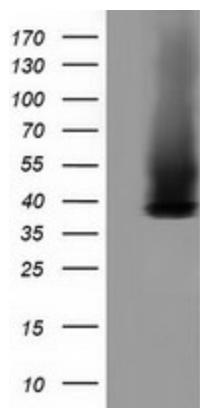
MW: 39 kDa

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]

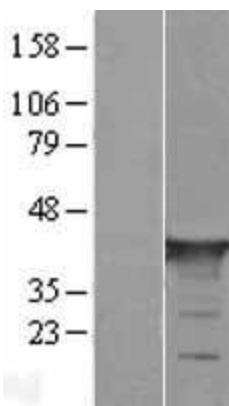
Product images:



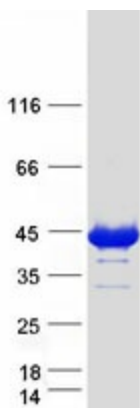
Circular map for RC215256



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GAS7 (Cat# RC215256, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GAS7 (Cat# [TA501907]). Positive lysates [LY418527] (100ug) and [LC418527] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418527]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215256 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GAS7 protein (Cat# [TP315256]). The protein was produced from HEK293T cells transfected with GAS7 cDNA clone (Cat# RC215256) using MegaTran 2.0 (Cat# [TT210002]).