

## Product datasheet for **RG218198**

### 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:	TurboGFP
Symbol:	Growth Arrest Specific Protein 7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218198 representing NM\_201433  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGCGCTCGCTGCCGGACCTGTACCCCTTCTCCGGGAGCGGCACGGCCAGGGGCTGCGCTTCG  
 CCGCGGGCGAGCTGATCACGCTGCTGCAGTCCCGGACGGCGGCTGGTGGGAAGGCGAGAAGGAGGACGG  
 GCTCCGTGGCTGTTCCCGGCGAGCTACGTGCAGTTGCTGGAGAAGCCTGGAATGGTCCCCCTCCGCCG  
 GGAGAAGAAAGCCAGACGGTCACTCTCCACCTGGCTGGCAGAGCTACCTGTCGCCTCAGGGCCGGCGGT  
 ACTATGTCAACACGACCACCAATGAGACCACCTGGGAACGTCCCAGCAGTTCTCTGGGATTCCAGCCAG  
 CCCTGGCTCTCACAGGAGCTCTCTGCCTCCAACAGTGAATGGATACCACGCATCAGGGACCCAGCGCAC  
 CCTCCAGAGACTGCCACATGAGTGTCCGAAAATCCACCGGTGATCCCAGAACCTGGGATCCTCATCGC  
 CAAGCAAAAAGCAGAGCAAGGAAAACACCATACAATAAACTGTGTGACGTTCCCTCACCAGACACGAT  
 GCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTACTGCGACTACTTCTGGGCTGATAAGAAGGAC  
 CCCAAGGCAACGGCACCGTGGCTGGGTTTGAACACTGCTCCAGAAACAGCTGAAGGGCAACAATGC  
 AGAAGGAAATGTGAGAATTCATCCGGGAAAGGATAAAGATTGAAGAAGACTATGCCAAGAAGCTTAGCTAA  
 GCTCTCTCAGAATCCTTGGCTTACAGGAGGAAGGCTCCTTGGGAGAGGCGTGGGCCAGGTGAAGAAG  
 AGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTTCTCTGCCAAGCTTACAGCGAGGTGGAGAAGCCCC  
 TGATGAACTTCCGTGAGAATTCAGAAAGACATGAAGAAGTGGCACCACCATGCGGACCTTCGCAA  
 GCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCGAAAGCCCTCACAGAGCGGCAGAGAGACCTG  
 GAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGCCGCGGA  
 GAAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAATG  
 GTTTGAAGAGATGGTGACCACCATTTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGG  
 CAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAGCACAGTCGAGCCCG  
 TGGATCAGCTGCTTCGAAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGTCAGAGAGCACAAGACGGG  
 CAACATCCGCCCTGTGGACATGGAGATC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG218198 representing NM\_201433  
 Red=Cloning site Green=Tags(s)

MSGARCRTLYPFSGERHGQGLRFAAGELITLLQVPDGGWWEKEKEDGLRGWFPASYVQLLEKPGMVPPPP  
 GEESQTVILPPGWQSYLSPQGRYYVNTTNETTWERPSSSPGIPASPGSHRSSLPPTVNGYHASGTPAH  
 PPETAHMSVRKSTGDSQNLGSSSPSKKQSKENTITINCVTFPHPDMPQQLLKPTWSYCDYFWADKKD  
 PQGNGTVAGFELLQKQLKQKQKQKEMSEFIRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEAWAQVKK  
 SLADEAEVHLKFSAKLHSEVEKPLMNFRENFKKMKKCDHHIADLRKQLASRYASVEKARKALTERQRDL  
 EMKTQQLEIKLSNKTEEDIKKARRKSTQAGDDLRCVDLYNQAQSKWFEEMVTTLELERLEVERVEMIR  
 QHLQCQYQLRHETDMFNQSTVEPVDQLLRKVDPKADRELWVREHKTGNIRPVDMEI

**TRTRPLE** – GFP Tag – V

**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

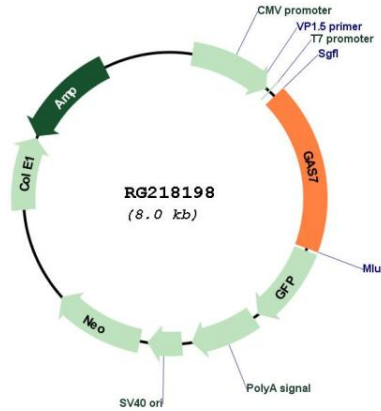
**UniProt ID:** [O60861](#)

**Cytogenetics:** 17p13.1

**Protein Families:** Transcription Factors

**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 RG218198