

## Product datasheet for **RG200285**

### Growth Arrest Specific Protein 7 (GAS7) (NM\_201432) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Growth Arrest Specific Protein 7 (GAS7) (NM_201432) 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)
ORF Nucleotide Sequence:	>RG200285 representing NM_201432 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCTGGAATGGTCCCCCTCCGCCGGGAGAAGAAAGCCAGACGGTCATCCTTCCACCTGGCTGGC  
AGAGCTACCTGTCGCCTCAGGGCCGGCGTACTATGTCAACACGACCACCAATGAGACCCTGGGAACG  
TCCCAGCAGTTCTCTGGGATCCAGCCAGCCCTGGCTCTCACAGGAGCTCTCTGCCTCCAACAGTGAAT  
GGATACCACGCATCAGGGACCCAGCGCACCCCTCCAGAGACTGCCACATGAGTGTCCGAAAATCCACCG  
GTGATCCCAGAACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCATCACAATAAA  
CTGTGTGACGTTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTAC  
TGCGACTACTTCTGGGCTGATAAGAAGGACCCCAAGGCAACGGCACCGTGGCTGGGTTTGAACACTGC  
TCCAGAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTCATCCGGGAAAGGATAAAGAT  
TGAAGAAGACTATGCGAAGAACTTAGCTAAGCTCTCTCAGAACTCCTTGCTTACAGGAGGAAGGCTCC  
TTGGGAGAGGCGTGGGCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTTCTCTG  
CCAAGCTTACAGCGAGGTGGAGAAGCCCTGATGAACTCCGTGAGAATTCAAGAAAGACATGAAGAA  
GTGCGACCACCACATTGCCGACCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGG  
AAAGCCCTCACAGAGCGGCAGAGAGACCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACA  
AGACAGAGGAGGACATCAAGAAGGCGCGGAGAAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGT  
GGATCTCTACAACAGGCCAGTCCAAATGGTTTGAAGAGATGGTGACCACCACATTGGAGCTAGAGCGG  
CTGGAGGTGGAGAGGGTAGAGATGATCCGGCAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAG  
ACATGTTCACCAAGCACAGTCGAGCCGTGGATCAGCTGCTTCGAAAAGTGGACCCGGCCAAAGACAG  
GGAGCTGTGGGTGAGAGACACAAGACGGGCAACATCCGCCCTGTGGACATGGAGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200285 representing NM\_201432  
 Red=Cloning site Green=Tags(s)

MKPGMVPPPPGEESQTVILPPGWQSYLSPQGRYYVNTTNETTWERPSSSPGIPASPGSHRSSLPPTVN  
 GYHASGTPAHPPEAHMSVRKSTGDSQNLGSSSPSKKQSKENTITINCVTFPHPDTPMEQQLLKPTWSY  
 CDYFWADKKDPQNGTVAGFELLLQKQLKQKQMQKEMSEFIRERIKIEEDYAKNLAKLSQNSLASQEEGS  
 LGEAWAQVKKSLADEAEVHLKFSAKLHSEVEKPLMNFRENFKKDMKKCDHHIADLRKQLASRYASVEKAR  
 KALTERQRDLEMKTQQLLEIKLSNKTEEDIKKARRKSTQAGDDLRCVDLYNQAQSKWFEEMVTTTLELER  
 LEVERVEMIRQHLQCQYTLRHETDMFNQSTVEPVDQLLRKVDPAKDRELWVREHKGTGNIRPVDMEI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_201432

**ORF Size:** 1248 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\\_201432.2](#)

**RefSeq Size:** 8181 bp

**RefSeq ORF:** 1251 bp

**Locus ID:** 8522

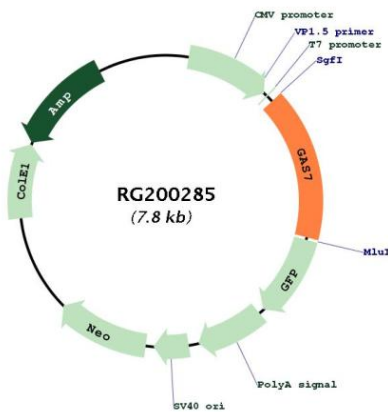
**UniProt ID:** [O60861](#)

**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 RG200285