

Product datasheet for **SC109940**

Growth Arrest Specific Protein 7 (GAS7) (NM_003644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth Arrest Specific Protein 7 (GAS7) (NM_003644) Human Untagged Clone
Tag:	Tag Free
Symbol:	Growth Arrest Specific Protein 7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109940 sequence for NM_003644 edited (data generated by NextGen Sequencing)

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ATGTCCAATATGGAGAACAGCTTTGACGATGTTTCTTGCCTCTCTCCCCAGAACCTGGGA
TCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCATCACATAAACTGTGTGACG
TTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTAC
TGCGACTACTTCTGGGCTGATAAGAAGGACCCCAAGGCAACGGCACCGTGGCTGGGTTT
GAACTACTGCTCCAGAAAACAGCTGAAGGGCAAACAATGCAGAAGGAAATGTCAGAATTC
ATCCGGGAAAGGATAAAGATTGAAGAAGACTATGCGAAGAAGCTTAGCTAAGCTCTCTCAG
AACTCCTTGGCTTCACAGGAGGAAGGCTCCTTGGGAGAGGCGTGGGCCAGGTGAAGAAG
AGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTCTCTGCCAAGCTTCACAGCGAGGTG
GAGAAGCCCCTGATGAACTTCCGTGAGAACTTCAAGAAAGACATGAAGAAGTGGCACCAC
CACATTGCCGACCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGG
AAAGCCCTCACAGAGCGGCAGAGAGACCTGGAGATGAAGACCCAGCAGCTGGAGATCAAG
CTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGAGAAAGTCCACACAGGCTGGA
GACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAAATGGTTTGAAGAG
ATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGG
CAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACA
GTCGAGCCCGTGGATCAGCTGCTTCGAAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGG
GTCAGAGAGCACAAAGACGGGCAACATCCGCCCTGTGGACATGGAGATCTAG
```

Clone variation with respect to NM_003644.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003644 unedited
 GGGGTACAAATTTTGTNATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGC
 AGGAGGCTTCCTTAATTCGCCTTCAGCCCGAGAGCTGGGCGTGGGAACAGCGTGGGGTCA
 GGGAGACCCCTGCTTGCCTGGCCAGAAATATGGTGACTTAGGATTCAGACTGAGCATCC
 CTGATTCGCCAGCGCTCCACCTCAGGGAACCTGAATGGGGGAAAAATGTCCAATAT
 GGAGAACAGCTTTGACGATGTTTCTTGCCTCTCTCCCAAGAACCTGGGATCCTCATCGCC
 AAGCAAAAAGCAGAGCAAGGAAAAACACCATCACAATAAACTGTGTGACGTTCCCTCACCC
 AGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAGCTACTGCGACTACTT
 CTGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACCGTGGCTGGGTTTGAACACTGCT
 CCAGAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTCATCCGGGAAAG
 GATAAAGATTGAAGAAGACTATGCGAAGAATTAGCTAAGCTCTCTCAGAACTCCTTGGC
 TTCACAGGAGGAAGGCTCCTTGGGAGAAGGCGTGGGCCAGGTGAAGAAGAGCCTGGCGG
 ACGAAGCAGAAGTTCACCTCAAGTTCTCTGCCAAGCTTCACAGCGAGGTGGAGAAGCCCC
 TGATGAACTTCGTGAGAACTTCAAGAAAGACTGNAAGAAGTGCACCACCATTTGCCG
 ACCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGGAGAAGNCCCGNAAGCCCTC
 ACAGAGCGGCAGAGAGACCTGGNAGATGAGACCCAGCAGCTGGNAGATCAAGCTGAGCAC
 CAGACAGAGGNAGACATCAGAAGGCGCGGAGAAGTCCCACAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003644 unedited
 AGCTCTGGACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTGGAGA
 GGGTACAAATGTTCTTATTATACTTCTCAGTCGACATGGAGAATAGAGGAGAGCAGAGG
 AATGCCCATCTTACATACTAGAGCGCCGCTTCTCAGCATGCCTGGCTTGTCTTGAGC
 ATTCGCTGAATGAATGCAGATTAATCAGAACAACAGACTTACCTCTGAAACTTAAATTC
 TGTAGAGTGCCTATGTATCAATGCCAAGTTGCTGACCGGTAAGACCCCTGAAAACGAGC
 GATCACGGGCTTCCCTGACGACAGGGCCATTATAGTGTCTCAGATTAGATCTTAGCACA
 ATGGCTTTAACCTGCTTGAATGAATAACAGAGGGAAGAAAGAAAGGAAGTACGTGAA
 GGGGGTAAAGAGAAGGAGGTGAGGGGATGAGGGGGAAAGAGTGACCTCCAAAAATGGAC
 TGGCCCAAACCTGGCCAACTGAGCTACCCTGGAAGACGCAAGAGGGCTCACTCTATCCC
 AGGGATGAACAGAGGACTCTGGAATCCTCAGATGTAATGGAAAAGTCAATGAGCCATATT
 GTACTCAAATATCTTGGTAATAACCAGGCTACTGCCTTTGAATGCCTGGAAATCACCCC
 CGAGTACTTTACCTAAGCCACCAAGGCATTACCCCTAGCCCCCTTTTTTCATAAGGAA
 CCCCAGAAATAATATTCTTAAAATTGGGAACTGGGGTCATGAACCAACCCCGACTGG
 GCCGAAAGAGGGTCTTCCCTCCCATGGGCCAGATCCTACCAAGGAGGCCTTCCACGCAGGG
 GAAAGCCCCCGCGGCTTGACACTTTTGTGGGGCATTGTGTGCACGAACACGAACAAAG
 GGCCACCTCCTGGGTTCACTTAAATAATCACCGCCTTTCTCCTTACGTACATTTTCAAC
 AGCCACTTCTCCTCTCCGCGAAAAGCGCCCAA

Restriction Sites:

NotI-NotI

ACCN:

NM_003644

Insert Size:

3950 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_003644.2](#), [NP_003635.2](#)

RefSeq Size: 7773 bp

RefSeq ORF: 1011 bp

Locus ID: 8522

UniProt ID: [O60861](#)

Cytogenetics: 17p13.1

Domains: FCH

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]

Transcript Variant: This variant (a) uses an alternate first exon resulting in a shorter 5' UTR and alternative translation initiation site, compared to variant c. The encoded protein (isoform a) is shorter than that encoded by variant c.