

Product datasheet for **SC321684**

GNS (NM_002076) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GNS (NM_002076) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GNS |
| Synonyms: | G6S |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_002076.2
 CGTCTGACTCCAGCCACCGGCCTTCAAGGCACGGCTTTTTATTCTTCGGCTGGTCGGCC
 TCTCGCCCTTCAGCTACCTGTGCGTCCCTCCGTCGCCGTCGCCGGGGTACCCCGGA
 GCCTGTCCGCTATGCGGCTCCTGCCTCTAGCCCCAGGTCGGCTCCGGCGGGCAGCCCC
 GCCACCTGCCCTCCTGCAGCCAGCGTCTACTGCTGGTGTGGCGGCTGCCTGGGG
 TCTTCGGGGTGGCTGCGGAACCCGAGGCCAACGTGGTGTCTCCTCACGGACGACC
 AGGACGAAGTGTCTGCGGCGCATGACACCGCTAAAGAAAACCAAAGCTCTCATCGGAGAGA
 TGGGGATGACTTTTTCCAGTGCTTATGTCCAAGTGCTCTCTGCTGCCAGCAGAGCCA
 GTATCCTGACAGGAAAGTACCCACATAATCATCACGTTGTGAACAACACTCTGGAGGGGA
 ACTGCAGTAGTAAGTCTGGCAGAAGATCCAAGAACAAATACTTTCCAGCAATTCTCA
 GATCAATGTGTGGTTATCAGACCTTTTTGACAGGAAATATTTAAATGAGTACGGAGCCC
 CAGATGCAGGTGGACTAGAACACGTTTCTCTGGGTTGGAGTTACTGGTATGCCTTGAAA
 AGAATTCTAAGTATTATAATTACACCTGTCTATCAATGGGAAGGCACGGAAGCATGGTG
 AAAACTATAGTGTGGACTACCTGACAGATGTTTTGGCTAATGTCTCCTTGGACTTTCTGG
 ACTACAAGTCCAACCTTTGAGCCCTTCTCATGATGATCGCCACTCCAGCGCCTCATTGCG
 CTTGGACAGCTGACCTCAGTACCAGAAGGCTTCCAGAATGTCTTTCACCAAGAAACA
 AGAACTTCAACATCCATGGAACGAACAAGCACTGGTTAATTAGGCAAGCCAAGACTCCAA
 TGACTAATTTCTCAATACAGTTTTTAGATAATGCATTTAGGAAAAGGTGGCAAATCTCC
 TCTCAGTTGATGACCTTGTGGAGAACTGGTCAAGAGGCTGGAGTTCACTGGGGAGCTCA
 ACAACACTTACATCTTCTATACCTCAGACAATGGCTATCACACAGGACAGTTTTCTTGC
 CAATAGACAAGAGACAGCTGTATGAGTTTGATATCAAAGTTCCACTGTTGGTTTCGAGGAC
 CTGGGATCAAACCAATCAGACAAGCAAGATGCTGGTTGCCAACATTGACTTGGGTCCTA
 CTATTTTGGACATTGCTGGCTACGACCTAAATAAGACACAGATGGATGGGATGCCTTAT
 TGCCCATTTTGAGAGGTGCCAGTAACTTGACCTGGCGATCAGATGCCTGGTGAATACC
 AAGGAGAAGGCCGTAACGTCACCTGACCCACATGCCCTTCCCTGAGTCTGGCGTATCTC
 AATGCTTCCAGACTGTGTATGTGAAGTGCTTATAACAATACCTATGCCTGTGTGAGGA
 CAATGTCAGCATTGTGGAATTTGACGATTGCGAGTTTGATGACCAGGAGGTGTTTGTAG
 AAGTCTATAATCTGACTGCAGACCCAGACCAGATCACTAACATTGCTAAAACCATAGACC
 CAGAGCTTTTAGAAAAGATGAACTATCGGTTAATGATGTTACAGTCTGTCTGGGCCAA
 CCTGTCGCACTCCAGGGTTTTTGACCCGGATACAGGTTTGACCCCGTCTCATGTTCA
 GCAATCGCGGCAGTGTGAGGACTCGAAGATTTTCAAACATCTTCTGTAGCGACCTCACA
 CAGCCTCTGCAGATGGATCCCTGCACGCTCTTCTGATGAAGTGATTGTAGTAGGTGTC
 TGTAGTAGTCTTCAAGACCACCTGGAAGAGTTTCTGGGCTGGCTTAAAGTCCTGTTT
 GAAAAAGCAACCCAGTCAGCTGACTTCCCTCGTGAATGTGTTAACTGTGAACTCTGCC
 ATGTGTCAGGAGTGGCTGTCTCTGGTCTCTTCTTTAGCTGACAAGGACACTCCTGAGGT
 CTTTGTCTCACTGTATTCTTTTATCCTGGGGCCACAGTTCTTGATTATTCTCTTGTG
 GTTAAAGACTGAATTTGTAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002076

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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| 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: | <ol style="list-style-type: none">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: | <u>NM_002076.2</u> , <u>NP_002067.1</u> |
| RefSeq Size: | 5130 bp |
| RefSeq ORF: | 1659 bp |
| Locus ID: | 2799 |
| UniProt ID: | <u>P15586</u> |
| Cytogenetics: | 12q14.3 |
| Domains: | Sulfatase |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Glycosaminoglycan degradation, Lysosome, Metabolic pathways |
| Gene Summary: | The product of this gene is a lysosomal enzyme found in all cells. It is involved in the catabolism of heparin, heparan sulphate, and keratan sulphate. Deficiency of this enzyme results in the accumulation of undegraded substrate and the lysosomal storage disorder mucopolysaccharidosis type IIID (Sanfilippo D syndrome). Mucopolysaccharidosis type IIID is the least common of the four subtypes of Sanfilippo syndrome. [provided by RefSeq, Jul 2008] |