

Product datasheet for **SC106153**

GALNS (BC018027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNS (BC018027) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNS
Synonyms:	GalN6S; GALNAC6S; GAS; MPS4A
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC018027, the custom clone sequence may differ by one or more nucleotides

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GTCGAGGCCCGCCCGCAGCCAGCCGGAAGGGCCGGCGGACGCTCGCTAGGTCGGCTCGCTGGCCGGG
GCTCCGCGGCTCCCGTGGTTGCCATGGCGGCGGTTGTCGCGGCGACGAGGTGGTGGCAGCTGTTGCTGGT
GCTCAGCGCCGCGGGGATGGGGCCTCGGGCGCCAGCAGCCCCAACATCCTGCTCCTGCTCATGGAC
GACGAATCACTCCCGCCACCTCGGGCCCGGGTCCCCCGCTGGGCTCGAGTCTTACCTGACGGGTGTC
TCTGCTCTGGAGAATGCTGAGCGAAGTACTGCTTTCCAGAGCACGCTCTCCAGCGCCAGGGGTCCG
TGTCTGACAGCAGTAGCCGGGCTTTCTCTGCACTGAGTGGCATCTCCCTCCTAAAGATACTTTGCTTC
AGAATTTTCATCTTTCACTTTTGAAGTTCCTCTGGGCCAGTGTAGATACTTTGTTTCAGAATTTCTTCT
TTCATTGTGTAACCTCTTCTGGGCCAGCATAGCTTCGCTGGATGAGCTGGGCTCTGCAGGTGAAGCCTCC
CTGTTAAGTTTCTGCTTTTCTGACTTTCTCAGAGGACAGAGGGGTGAGGCGGGGAGCTCATGAATAAT
TTTTTATGTTGAAGACTTGTCGAAATAATTTTGGTTATGTTGGGTTAAATAAAATATAAAGTTAGTCT
GTAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC018027 unedited GGGGGGNGGGNNNNNNNNNNNNCCNNNCCGGTTCAGAAATTTGTATACGACTCACTA TAGGCGGCGCGNATTCGGCACCAGGCTAGGTCGGCTCGCTGGCCGGGGCTCCGCGGCTC CCGTGGTTGCCATGGCGGCGGTTGTGCGGCGACGAGGTGGTGGCAGCTGTTGCTGGTGC TCAGCGCCGCGGGGATGGGGGCTCGGGCGCCCGCAGCCCCAACATCCTGCTCCTGC TCATGGACGACATGAAGGATTTGGGGCAGAGCACTTGGCAGGTCATGAAGGGGTCCAAC TTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGATTCCAACCTCGAGAAAAAG GGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGCCAGGATTGAGAA ATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACTTTTTTGGATCTTGCCTGAAACTT TTGTCCTGGCTGTCAATATTTGGACAGGTTCTTGGCTCTTATGAAGGTGAAACCTAAAC ATTTGCTTGCATTGGAGTCTGTTCTTTTTGCTGGCTGCTAGAATAGTTGAAGAAGACT GCAATATTCATCCACTCATGATGTGATCCGGATTAGTCAGTGAAATGTACTGCTTCTG ACATAAACGGATGGAAAAATAATTTTCAGAAAAATTGCACTATGAATTGGAAGCTACTA CTGCCTTNAACTNTNTGCACTTATACCATACTATTATACTNTGCATACTTCAGAAAGGA AGAAATACTGAGCCTTTGATAACTAGAAGCTCAGCTNGAAGCTTTGCACTGCCGACTCAT CTTTTCAAAGCAAACCATCTGTATTAGCCTTGTGCCTCTCATTTTTGAAGTGAAACTTT GAAATCTGTGNAATACTGGNAANTCTCTTGTAGTTAA
Restriction Sites:	NotI-NotI
ACCN:	BC018027
Insert Size:	2650 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:	<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:	BC018027.1
RefSeq Size:	737 bp
RefSeq ORF:	737 bp
Locus ID:	2588
Cytogenetics:	16q24.3
Protein Families:	Druggable Genome
Protein Pathways:	Glycosaminoglycan degradation, Lysosome, Metabolic pathways

Gene Summary:

This gene encodes N-acetylgalactosamine-6-sulfatase which is a lysosomal exohydrolase required for the degradation of the glycosaminoglycans, keratan sulfate, and chondroitin 6-sulfate. Sequence alterations including point, missense and nonsense mutations, as well as those that affect splicing, result in a deficiency of this enzyme. Deficiencies of this enzyme lead to Morquio A syndrome, a lysosomal storage disorder. [provided by RefSeq, Jul 2008]