

Product datasheet for **SC103872**

B3GAT2 (AK055248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT2 (AK055248) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GAT2
Synonyms:	GLCATS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC103872 sequence for AK055248 edited (data generated by NextGen Sequencing) ATGCGAACCACCCGCAAGGTCTCCGTCTGGCCTGTGGCCTGGTTGGTGGCGGCGCTAC GAACGTCCTGGTGGAAAACGGCAAAGTTGTTGGCTGGTACACCGCTGGAGAGCAGAC AGGCCTTTTGCCATCGACATGGCAGGATTTGCTGTAAGTCTTCAAGTCATTTTGTCCAAT CCAAAAGCTGTATTTAAGCGTCGTGGATCCCAGCCAGGGATGCAAGAATCTGACTTTCTC AAACAGATAACAACAGTCGAAGAAGTGAACCGAAAGCAAATAACTGACTAAGGTTCTC GTGTGGCACACTCGGACAGAGAAGGTTAATCTAGCCAACGACCAAGTACCACCTGGAC ACAGTAAAATTGAGGTATAA Clone variation with respect to AK055248.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK055248 unedited</p> <pre>GGGTGCATATATAGNATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGGGGCGCG GGGTGAGCGGGGGCACTGGCCTGCGCGTGTCCACGTGAGCATGATGATGACAATTAGGA TCCAGGGCAGGAGGATAAAGAAGCGGGTAAAAGCGCGGACTTCATGGTGACGCTCCCT GGCCTCTCGGACACCCAGAGAGGGGCGAGCCGAGGGACCCAGTGCGCAGCTTGGACAG CGGCGGCCAGCACTTAGGGAGTGGTATGGGTGCGCTGTCGACGACAACACCTATAGT CTGGAGCTCTTCCAGGAGATGCGAACCCACCCGCAAGGTCTCCGCTGCGCCTGTGGCCTG GTTGGTGGGCGGCTACGAACGTCCGCTGGTGGAAAACGGCAAAGTTGTTGGCTGGTAC ACCGGCTGGAGAGCAGACAGGCCTTTTGCATCGACATGGCAGGATTTGCTGTAAGTCTT CAAGTCATTTTGTCCAATCCAAAAGCTGTATTTAAGCGTCGTGGATCCCAGCCAGGGATG CAAGAATCTGACTTTCTCAAACAGATAACAACAGTCAAGAAGTGAACCGAAAGCAAAT AACTGCACTAAGTTTCTCGTGTGGCACACTCGGACAGAGAAGGTTAATCTAGCCAACGAG CCAAAGTACCACCCTGGACACAGTGAAAATTTGAGTATAAATTGAAGCAGCAACTGGTGC AGTTTGTCCAGCCAGTGGATCCATATGGGAGAAGATGTTTGCAGATTAAGCCACCAAGCA TTCAAGGATTGGTTGGTTACTTTAATACAGCAGCCCTTCTTGTCCATCTGAGGACATC CTGTCTTAAAAGGAGCTTGTCCAGTAAACAAAACCTAATTGGGAGGTTGGTACACAAAGG ATAGTGTGGCTTAATTTGCTGCCAGGTTTTCTTACAAN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK055248 unedited</p> <pre>GAACCGCGGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTATTTAGGAAGTATA TAAGATTTTAATAGAGAATAATATCTATCATACAAAGTTTATAGGATAATTTTAGACTAT TTTACTTCTAAAATTTTCTTACTCCTTAGTAGTTAAAGCACAATATCCTAGTGTAGGTG AAAGTTAGTTAGAGTAGCGGACTCATAAAATCCCAAGATTGCTTTGGTATTTTTTTTTTA AGTAAGTTGTGGTTAATCTTTGGGAAACTGTATCTAGAAAGTAGATAAAGAAGGGAACA AAGTAGCTATTTGCTTTAAGAAATATTTGTATGGTACTCTGTTTTTATTCCAGTGCTTGG ACTAGTTGTCACATTAATGAAAAATGACCAACTGTGTGGCTAAAGAAACAAGAATTAAG AGTGAAGTAAGCCTCTTGAACCTTTTATATGTTTCACAGATGAATCAGCAGATGG CTGGCATGAGTATCAGTAGTGCAACCCCTACTGCAGGTTTTGGCCAGCCCTCCAGCACAA CAGCAGGATGGTCTGGAAGCTCATCAGGTCAGACTCTCAGCACAACTGTGGAATGAA AACTGCAATAACAAGTTTCATCCAGAACTACCACCTGACATTCCTTGCTGNAACGCATCA TTCCCCCTGTTTATTCATATGCATATTTTTTTTTCTTTTTTACCCTTTGTTTCATATTAAGA ATGATCTGATTGACCGTGTGGTCTGACTGATTCAATTGATGTTGGTGAACAAACAAGTTG ATAATCCTTTTATGTCAAGGCAGCTNTGCTCATATTTCCATGATNTCTGACTGCATATT TGGGAAGCTGCTCACTGGCAAATCAGTTTCTCTCATAAAATATTGCCTCATGTTTGGCT ATAGGAAAGAGTTTCATGTAGTAAACCCCTAAAGGTAACCCACCCCAATACCCGTAT CCTGTGGAGGTCCTGGTGACAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	AK055248
Insert Size:	2600 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:	AK055248.1 , BAB70889.1
RefSeq Size:	2596 bp
RefSeq ORF:	381 bp
Locus ID:	135152
Cytogenetics:	6q13
Domains:	Glyco_transf_43
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	The product of this gene is a transmembrane protein belonging to the glucuronyltransferase family, and catalyzes the transfer of a beta-1,3 linked glucuronic acid to a terminal galactose in different glycoproteins or glycolipids containing a Gal-beta-1-4GlcNAc or Gal-beta-1-3GlcNAc residue. The encoded protein is involved in the synthesis of the human natural killer-1 (HNK-1) carbohydrate epitope, a sulfated trisaccharide implicated in cellular migration and adhesion in the nervous system. [provided by RefSeq, Jul 2008]