

## Product datasheet for **SC302906**

### Galactosylceramidase (GALC) (NM\_001037525) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galactosylceramidase (GALC) (NM_001037525) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALC
Synonyms:	galactocerebrosidase; galactocerebroside beta-galactosidase; galactosylceramidase; galactosylceramide beta-galactosidase; galactosylceraminidase; GALCERase; OTTHUMP00000027906
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

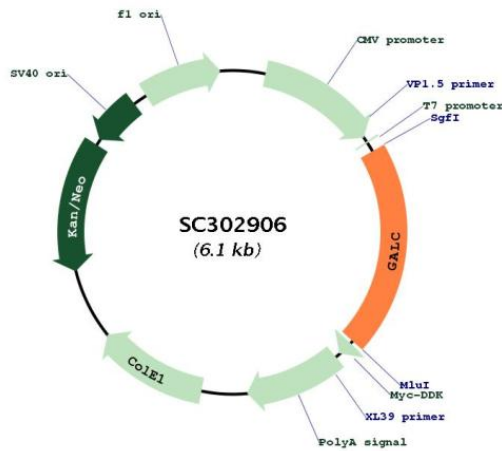
**Fully Sequenced ORF:** >SC302906 representing NM\_001037525.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGAGTGGCTACTCTCGGCTTCTGGCAACGCCGAGCGAAAGCTATGACTGCGGCCGCGGGTTCCG
GCGGGCCGCGCCGCGGTGCCCTTGCTGCTGTGTGCGCTGCTGGCGCCCGCGCGGTACGTGCTCGAC
GACTCCGACGGGCTGGGCCGGGAGTTCGACGGCATCGGCCGGTCAAGCGCGCGGGGCAACCTCCCGA
CTTCTAGTAAATTACCCAGAGCCATCGTTTCTCAGATATTGGATTATCTCTTTAAGCCGAATTTTGGT
GCCTCTTTCATATTTTAAAAGTGGAAATAGGTGGTGTGGGCAGACAACAGACGGCACTGAGCCCTCC
CACATGCATTATGACTAGATGAGAATTTCCGAGGATACGAGTGGTGGTTGATGAAAGAAGCTAAG
AAGAGGAATCCCAATATTACACTCATTGGGTTGCCATGGTCATCCCTGGATGGTGGGAAAAGTTTC
GACTGGCCTTATGTCAATCTTCAGCTGACTGCCTATTATGTCGTGACCTGGATTGTGGGCCCAAGCGT
TACCATGATTTGGACATTGATTATTTGGAATTTGGAATGAGAGGTCATATAATGCCAATTATATTAAG
ATATTAAGAAAAATGCTGAATTATCAAGGTCTCCAGCGAGTGAAAATCATAGCAAGTGATAATCTCTGG
GAGTCCATCTCTGCATCCATGCTCCTTGATGCCAACTCTCAAGGTGGTTGATGTTATAGGGGCTCAT
TATCCTGGAACCCATTCAGCAAAAAGATGCAAAAGTTGACTGGGAAGAAGCTTTGGTCTTCTGAAGACTTT
AGCACTTTAAATAGTGACATGGGTGCAGGCTGCTGGGGTCGCATTTTAAATCAGAATTATATCAATGGC
TATATGACTTCCACAATCGCATGGAATTTAGTGGCTAGTTACTATGAACAGTTGCCTTATGGGAGATGC
GGGTTGATGACGGCCAGGAGCCATGGAGTGGGCACTACGTGGTAGAATCTCTGTCTGGGTATCAGCT
CATACCACTCAGTTTACTCAACCTGGCTGGTATTACCTGAAGACAGTTGGCCATTTAGAGAAAGGAGGA
AGCTACGTAGCTCTGACTGATGGCTTAGGGAACCTCACCATCATCATTGAAACCATGGTAAACTTTTGT
TGTTGCTATTGGATTAACACTCACTCTTTACTATTGGAAAAATAAAATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**



**ACCN:** NM\_001037525

**Insert Size:** 1224 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001037525.2</a></u>
<b>RefSeq Size:</b>	1380 bp
<b>RefSeq ORF:</b>	1224 bp
<b>Locus ID:</b>	2581
<b>Cytogenetics:</b>	14q31.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Metabolic pathways, Sphingolipid metabolism
<b>MW:</b>	45.7 kDa
<b>Gene Summary:</b>	<p>This gene encodes a lysosomal protein which hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Mutations in this gene have been associated with Krabbe disease, also known as globoid cell leukodystrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (b) has a distinct C-terminus and is shorter than isoform a.</p>