

Product datasheet for SC331419

Galactosylceramidase (GALC) (NM_001201401) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Galactosylceramidase (GALC) (NM_001201401) Human Untagged Clone
Tag: Tag Free
Symbol: Galactosylceramidase
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331419 representing NM_001201401.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTGAGTGGCTACTCTCGGCTTCTGGCAACGCCGAGCGAAAAGCTATGACTGCGGCCGCGGGTTCG
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ACTCACTCCTTTGAATTTGCACAGTTTGACAACCTTCTGTGGAAGCCACACGCTAA
  
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001201401
Insert Size:	1989 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:	<u>NM_001201401.1</u>
RefSeq Size:	3828 bp
RefSeq ORF:	1989 bp
Locus ID:	2581
UniProt ID:	<u>P54803</u>
Cytogenetics:	14q31.3
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Sphingolipid metabolism
MW:	74.3 kDa
Gene Summary:	<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 (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>