

Product datasheet for **SC334722**

Ceramide synthase 1 (CERS1) (NM_001290265) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide synthase 1 (CERS1) (NM_001290265) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ceramide synthase 1
Synonyms:	EPM8; GDF-1; GDF1; LAG1; LASS1; UOG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001290265, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGAGAGCGCTTGAAGTTTCTTCTACCTGGGCAGCTGGAGCTACAGTGCCACCTGCTGTTTG
GCACCGACTACCCCTTCTCCATGACCCACCATCTGTCTTCTACGACTGGACGCCGGCATGGCAGTGCC
ACGGGACATTGCAGCCGCTACCTGCTCCAGGGAAGCTTCTATGGCCACTCCATCTACGCTACGTATAC
ATGGACACCTGGCGCAAGGACTCGGTGGTCATGCTGCTCCACCACGTGGTCACTCTCATCCTCATCGTCT
CCTCCTACGCCTCCGGTACCACAATGTGGGCATCCTTGTGCTTCTCCTGCAGATATCAGTGACGTGCA
GCTTGAGTTCACCAAGCTCAACATTTACTTCAAGTCCCAGCGGCTCCTACCATCGGCTGCATGCCTTG
GCAGCAGACTTGGGCTGCCTCAGCTTCCGGTTCAGCTGGTCTGGTTCGGCTCTACTGGTCCCCTCA
AGGTCTGTATGCCACCAGTCACTGCAGTCTGCGCACGGTGCCTGACATCCCCTTCTACTTCTTCAA
TGGCCTCCTGCTGCTCACCCTTATGAACCTCTACTGGTTCCTGTACATCGTGGCGTTTGACGCCAAG
GTGTTGACAGGCCAGGTGCACGAGCTGAAGGACCTGCGGGAGTATGACACAGCCGAGGCCAGAGCTGA
AGCCCAGCAAAGCCGAGTGA
  
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001290265
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).



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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_001290265.1</u> , <u>NP_001277194.1</u>
RefSeq Size:	1983 bp
RefSeq ORF:	720 bp
Locus ID:	10715
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a ceramide synthase enzyme, which catalyzes the synthesis of ceramide, the hydrophobic moiety of sphingolipids. The encoded enzyme synthesizes 18-carbon (C18) ceramide in brain neurons. Elevated expression of this gene may be associated with increased longevity, while decreased expression of this gene may be associated with myoclonus epilepsy with dementia in human patients. This protein is transcribed from a monocistronic mRNA as well as a bicistronic mRNA, which also encodes growth differentiation factor 1. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (3) is a monocistronic CERS1 transcript. Variant 3 represents the use of an alternate promoter and has multiple differences compared to variant 1, one of which results in a frameshift. Variant 3 encodes isoform 3 which has a shorter N-terminus and a distinct C-terminus compared to isoform 1. 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>