

Product datasheet for **SC107203**

Ceramide synthase 2 (CERS2) (NM_022075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide synthase 2 (CERS2) (NM_022075) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ceramide synthase 2
Synonyms:	L3; LASS2; SP260; TMSG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107203 sequence for NM_022075 edited (data generated by NextGen Sequencing)

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ATGCTCCAGACCTTGTATGATTACTTCTGGTGGGAACGTCTGTGGCTGCCTGTGAACTTG
ACCTGGGCCGATCTAGAAGACCGAGATGGACGTGTCTACGCCAAAGCCTCAGATCTCTAT
ATCACGCTGCCCTGGCCTTGCTCTTCCTCATCGTTTCGATACTTCTTTGAGCTGTACGTG
GCTACACCACTGGCTGCCTCTTGAACATAAAGGAGAAAACCTCGGCTGCGGGCACCTCCC
AACGCCACCTTGGAACATTTCTACCTGACCAGTGGCAAGCAGCCCAAGCAGGTGGAAGTA
GAGCTTTTGTCCCGCAGAGCGGGCTCTCTGGCCGCCAGGTAGAGCGTTGGTTCCGTCGC
CGCCGCAACCAGGACCGGCCAGTCTCCTCAAGAAGTCCGAGAAGCCAGCTGGAGATTC
ACATTTTACCTGATTGCCTTCATTGCCGGCATGGCCGTCATTGTGGATAAACCTGGTTC
TATGACATGAAGAAAGTTTGGGAGGGATATCCCATACAGAGCACTATCCCTTCCCAGTAT
TGGTACTACATGATTGAACTTTCCTTCTACTGGTCCCTGCCTTTCAGCATTGCCTCTGAT
GTCAAGCGAAAGGATTTCAAGGAACAGATCATCCACCATGTGGCCACCATCATTCTCATC
AGCTTTTCTGGTTTGCCAATTACATCCGAGCTGGGACTTAATCATGGCTCTGCATGAC
TCTTCCGATTACCTGCTGGAGTCAGCCAAGATGTTAACTACGCGGGATGGAAGAACC
TGCAACAACATCTTCATCGTCTTCGCCATTGTTTTATCATCACCCGACTGGTCACTCTG
CCCTTCTGGATCCTGCATTGCACCCTGGTGTACCCACTGGAGCTCTATCCTGCCTCTTT
GGCTATTACTTCTCAATTCCATGATGGGAGTTCTACAGCTGCTGCATATCTTCTGGGCC
TACCTCATTTTGGCATGGCCCACAAGTTCATAACTGGAAGCTGGTGAAGATGAACGC
AGTGACCGGAAGAAACAGAGAGCTCAGAGGGGGAGGAGGCTGCAGCTGGGGGAGGAGCA
AAGAGCCGGCCCTAGCCAATGGCCACCCATCCTCAATAACAACCATCGTAAGAATGAC
TGA

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Clone variation with respect to NM_022075.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022075 unedited</p> <pre> NGGGCCTGTCAGGATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACCAGGCAG CGGCCCGGGCCCCGCCACGCTGCCGCGGGATGCTCCAGACCTTGTATGATTACTTCTGG TGGGAACGTCTGTGGCTGCCTGTGAACCTGACCTGGGCGGATCTAGAAGACCGAGATGGA CGTGTCTACGCCAAAGCCTCAGATCTCTATACACGCTGCCCTGGCCTTGTCTTCCCTC ATCGTTTCGATACTTCTTTGAGCTGTACGTGGCTACACCACTGGCTGCCCTTGAACATA AAGGAGAAAACCTCGGCTGCGGGCACCTCCAACGCCACCTTGAACATTTCTACCTGACC AGTGGCAAGCAGCCCAAGCAGGTGGAAGTAGAGCTTTTGTCCCGCAGAGCGGGCTCTCT GGCCGCCAGGTAGAGCGTTGGTTCGCTGCCCGCCGCAACCAGGACCGGCCAGTCTCCTC AAGAAGTTCGAGAAGCCAGCTGGAGATTCACATTTTACCTGATTGCCTTCATTGCCGGC ATGGCCGTATTGTGGATAAACCCCTGGTCTATGACATGAAGAAAGTTTGGGAGGGATAT CCCATACAGAGCACTATCCCTTCCAGTATTGGTACTACATGATTGAACTTTCCTTCTAC TGGTCCCTGCTCTCAGCATTGCCTCTGATGTCAAGCGAAAGGATTTCAAGGAACAGATC ATCCACCATGTGGCCACCATCATTCTCATCAGCTNTTCTGGTTTGCCAATTACATCCGA GCTGGGACTCTAATCATGGCTCTGCATGACTCTCCGATTACCTGCTGGAGTCAGCCAAG ATGTTTAACTACGCGGGATGGAAGAACCTGNCACACATCTTCATCGTCTTCC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022075 unedited</p> <pre> NGTACCGGTATGTTACACTTACTCTGAGCAGNANAGCACTGGGGNAGGGTCACAGGGAT GCCACCCGGGATCTGTTCCAGAAACAGCTGTGACCGCGGCCGAATCTAAAGTCGAGTTT TTGCGTTTTCTTTTTCTTTTTTATTTAATATTTTTTATTTAATCTTTTAAATTTAAAAA AAAACCCATTAACAGTACATTTTGTCTAAAATGGGCCCTCTGCTGAAATGCTAGGCGGC TCGGCCGGAATTCTGGGTTTAAACCCCCAGCCTCTATCTTTNAGGGATAAGAATTAGAAT TAGTTGCGATTCTGCTCGACGCCGTCTCGCTCAGCCTGGCAGCAGCCGGAAGGGACCCC ACCATCCACTCCCATCGCAGGAGCGTCCTAATAGACTGGAATCCGGGGCAGACAGCCCC GTGCGACGCGCCGCTCCGCGCGCAACGAGGCCTCCACGCCCGCGGTGACAATCCCGTCC GCAACCTCCGCCCGTGACCCGCCCTCCGCCACTGCGACCCCGCTTAATACTGCAGTCGCC AGCCAACGCCGCCGAGCGACGACGAGCGGTCCGGACGAGACTGTCCCGCAGCGGGCTA AGCAATGTCTCAGCAAAACCACGCACAGGTGCTACTCCGCCGCTACAGCAGGGAGGCGC CTACAGTCGCCCCAAACCTCTCGCCCCACCATGCGCCGTATGGCCACTCGCACTCGCTC CGCCGCTCGCCAGCGCCTACTCATACCACCGCCGACGCGGACAGATCCGGCCCCGAGG CCCAAGCCACTGACCCAGCGGACAGCAGAACCAGCGGAGCGATCGATCACCCAGCCGCG GTCTTCCGCCACACTCACCGCATCGCGTCCGGCACGCCATTCTTCGCTCGTCTCTGATTT ACGCGTCCGCTCCATTGATGCCTGCGGGTGTCCGGTCTGCCCGCTCCTGCTCGGCGCC CGCCACGCTCCAACGCTGGCTTACGGTGTCTATCCAACTGCGAGGGCGTGACTACGC GCGTGGTG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022075
Insert Size:	2100 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_022075.1, NP_071358.1</u>
RefSeq Size:	2250 bp
RefSeq ORF:	1143 bp
Locus ID:	29956
UniProt ID:	<u>Q96G23</u>
Cytogenetics:	1q21.3
Protein Families:	Transcription Factors, Transmembrane
Gene Summary:	<p>This gene encodes a protein that has sequence similarity to yeast longevity assurance gene 1. Mutation or overexpression of the related gene in yeast has been shown to alter yeast lifespan. The human protein may play a role in the regulation of cell growth. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>