

Product datasheet for **SC110410**

Ceramide synthase 2 (CERS2) (NM_013384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide synthase 2 (CERS2) (NM_013384) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ceramide synthase 2
Synonyms:	L3, SP260, TMSG1, MGC987, FLJ10243
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110410 sequence for NM_013384 edited (data generated by NextGen Sequencing)

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ATGGCCGTCATTGTGGATAAACCCCTGGTTCTATGACATGAAGAAAGTTTGGGAGGGATAT
CCCATACAGAGCACTATCCCTTCCCAGTATTGGTACTACATGATTGAACCTTCTCTCTAC
TGGTCCCTGCTCTTCAAGCATTGCCTCTGATGTCAAGCGAAAGGATTTCAAGGAACAGATC
ATCCACCATGTGGCCACCATCATTCTCATCAGCTTTTCTGGTTTGCCAATTACATCCGA
GCTGGGACTCTAATCATGGCTCTGCATGACTCTCCGATTACCTGCTGGAGTCAGCCAAG
ATGTTTAACTACGCGGGATGGAAGAACACCTGCAACAACATCTTCATCGTCTTCGCCATT
GTTTTTATCATCACCCGACTGGTCATCCTGCCCTTCTGGATCCTGCATTGCACCCTGGTG
TACCCACTGGAGCTCTATCCTGCCTTCTTGGCTATTACTTCTCAATTCCATGATGGGA
GTTCTACAGCTGCTGCATATCTTCTGGGCCTACCTCATTTTGCGCATGGCCACAAGTTC
ATAACTGGAAAGCTGGTAGAAGATGAACGCAGTGACCGGGAAGAAACAGAGAGCTCAGAG
GGGGAGGAGGCTGCAGCTGGGGGAGGAGCAAAGAGCCGGCCCCTAGCCAATGGCCACCCC
ATCCTCAATAACAACCATCGTAAGAATGACTGA

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Clone variation with respect to NM_013384.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013384 unedited
 CTCGGTTNGAAACGATTTATGGAGGCGGCAGACCCATTCCCACGAGGGCCAGTCTTTCT
 CAGAGTCCGAGAAGCCAGCTGGAGATTCACATTTTACCTGATTGCCTTCATTGCCGGCA
 TGGCCGTCATTGTGGATAAACCTTGGTTCTATGACATGTAACAAAGTTTGGGAGGGATAT
 CCCATACAGAGCACTATCCCTTCCCAGATGGGTACTACGTGATTGAACTTTCCTTCTACT
 GGTCCCTGCTCTTCAACATTGCCTCTGATGTCAAGCGAAAGGATTTTAAGGAACAGATCA
 TCCACCATGTGGCCACCATCATTCTCATCAGCTTTTCTGGTTTGCCAATTACATCCGAG
 CTGGGACTCTAATCATGGCTCTGCATGACTCTTCCGATTACCTGCTGGAGTCAGCCAAGA
 TGTTTAACTACGCGGGATGGAAGAACACCTGCAACAACATCTTCATCGTCTTCGCCATTG
 TTTTTATCATCACCCGACTGGTCATCCTGCCCTTCTGGATCCTGCATTGCACCCTGGTGT
 ACCCACTGGAGCTCTATCCTGCCTTCTTTGGCTATTACTTCTTCAATTCATGATGGGAG
 TTCTACAGCTGCTGCATATCTTCTGGGCCTACCTATTTTGCGCATGGCCACAAGTTCA
 TAACTGGAAGCTGGTAGAAGATGAACGCAGTGACCGGGAAGAAACAGACAGCTCATAGG
 GGGATGAAGCTGCAGCTGGCGGAGGAGCATAGAGCCGGCCCTAGCCAATGGCCACCCCA
 TCCTCAATAACACCCTCGTAGAATGACTGAACCATTATCCCGCTGCCTCCAGATATTG
 CATAAAGCCAGGAACTACCTGCTCCCTGGGCTAAGGGTCACTTTAAGCTCTGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013384 unedited
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTAAAAAAAACCTTTTCGTTTATTTAGTTGATCCCCCTTTTCAA
 TTCCTAATAGTCTGACCCTTATTGCCATGTTTTATTTAATTTTTTATTTAATCTTTTA
 ATTTTAAAAAAAACCCATTAACAGTACTTTTTGGTCTAAAAGGGCCCTTTGCTGAAAT
 GCTAGGGGCTACCCGTAATTTTGGTTTTAAAACAAAACCCCAAATTTTTAATAAATAAA
 AATTAATAATAGTTGCCATTTTACTCCAACAGTTAGCCTAACTGAAAAAAAAGGGAA
 GGGGAAAAGGCCAAAAAAGGAGGCAGTCAAATTTTAAACCTGTGCTACAGGGACAGC
 TGAAAAAGTACCCTAAAAAAGATCTTCCGAGCAGTCCCAGTACAGCCCCATTTTTT
 GGCAAAGGTAGGGTAAGGGTTATGTGCACCCTCCTCCTACCCTCAATTAATTTGGCCAT
 AAAGGGAGAAAGTTAAAAGCTCAGCTTTGGTTTCTGGCCCAAGTTAGGGAGCTTAAAA
 GGTTAGCCTTGGTCCAGCTTTTGAGAATGAGGCCACAGAGGGGACAATAAGGCCAAC
 CCTGGCTCTGGAGGTCAGGNAGTCAAAGCCAAACAGTTGGGGCCCAAATCTCAAATAT
 GGGATGTGGATTTGTACCCTTCCACAGAGAGCTGGGGGAGGCCCTTCAAACATAAAA
 AGATGATTGGTCCGGTTAGGAGGAAATACGACCGTCCCCCTTTACAGAAATAACACAGTC
 CCTTACCTGGGAAAAGCCGGTTAAAATTTGTGTTAGAGCCCCTGCGGACACCCAGGAGG
 GAGGATGAAAACTTTCTTTATTTTCTTTTCCCAAGATTTAAGGGCCCTTATCCCAGG
 AACAGGTTTTCTGCTTACT

Restriction Sites:

NotI-NotI

ACCN:

NM_013384

Insert Size:

1770 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:

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: [NM_013384.3](#), [NP_037516.3](#)

RefSeq Size: 2178 bp

RefSeq ORF: 2178 bp

Locus ID: 29956

Cytogenetics: 1q21.3

Domains: LAG1, TLC

Protein Families: Transcription Factors, Transmembrane

Gene Summary: 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]

Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter isoform (2) that has a shorter N-terminus compared to isoform 1.