

## Product datasheet for RC200145

### Ceramide synthase 2 (CERS2) (NM\_022075) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide synthase 2 (CERS2) (NM_022075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CERS2
Synonyms:	L3; LASS2; SP260; TMSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200145 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGCTCCAGACCTTGATGATTACTTCTGGTGGGAACGTCTGTGGCTGCCTGTGAACTTGACCTGGGCCG  
ATCTAGAAGACCGAGATGGACGTGTCTACGCCAAAGCCTCAGATCTATATCACGCTGCCCTGGCCTT  
GCTCTTCCTCATCGTTCGATACTTCTTTGAGCTGTACGTGGCTACACCACTGGCTGCCCTTTGAACATA  
AAGGAGAAAACCTCGGCTCGGGCACCTCCAACGCCACCTTGAACATTTCTACCTGACCAGTGGCAAGC  
AGCCCAAGCAGGTGGAAGTAGAGCTTTTGTCCCGCAGAGCGGGCTCTCTGGCCGCCAGGTAGAGCGTTG  
GTTCCGTGCGCCGCGCAACCAGGACCGCCAGTCTCTCAAGAAGTTCGAGAAGCCAGCTGGAGATTC  
ACATTTTACCTGATTGCCTTCATTGCCGCGCATGGCCGTCATTGTGGATAAACCCCTGGTTCTATGACATGA  
AGAAAGTTGGGAGGGATATCCCATACAGAGCACTATCCCTTCCCAGTATTGGTACTACATGATTGAACT  
TTCTTCTACTGGTCCCTGCTCTTCAGCATTGCCTCTGATGTCAAGCGAAAGGATTTCAAGGAACAGATC  
ATCCACCATGTGGCCACCATCATTCTCATCAGCTTTTCTGGTTTGCCAATTACATCCGAGCTGGGACTC  
TAATCATGGCTCTGCATGACTCTCCGATTACCTGCTGGAGTCAGCCAAGATGTTAACTACGCGGGATG  
GAAGAACACCTGCAACAACATCTTCATCGTCTTCGCCATTGTTTTATCATCACCCGACTGGTCATCCTG  
CCCTTCTGGATCCTGCATTGCACCTGGTGTACCACTGGAGCTATCCTGCCTCTTTGGCTATTACT  
TCTTCAATTCCATGATGGGAGTTCTACAGCTGCTGCATATCTTCTGGCCCTACCTATTTTGGCATGGC  
CCACAAGTTCATAACTGGAAGCTGGTAGAAGATGAACGCACTGACCGGGAAGAAACAGAGAGCTCAGAG  
GGGGAGGAGGCTGCAGCTGGGGAGGAGCAAAGAGCCGGCCCTAGCCAATGGCCACCCCATCTCAATA  
ACAACCATCGTAAGAATGAC

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200145 protein sequence  
 Red=Cloning site Green=Tags(s)

MLQTLYDYFWERLWLPVNLTWADLEDRDGRVYAKASDL YITLPLALLFLIVRYFFELYVATPLAALLNI  
 KEKTRLRAPPNATLEHFYLTSGKQPKQVEVELLSRQSLSGRQVERWFRRRRNQDRPSLLKKFREASWRF  
 TFYLI AF IAGMAVIVDKPWFYDMKKVWEGYPIQSTIPSQYWYMIELSFYWSLLFSIASDVKRRKDFKEQI  
 IHHVATIILISFSWFANYIRAGTLIMALHDSSDYLLLESAKMFNYAGWKNTCNNIFIVFAIVFIITRLVIL  
 PFWILHCTLVYPLELYPAFFGYFFNSMMGLVQLLHIFWAYLILRMAHKFITGKLVEDERSDREETESSE  
 GEEAAAGGGAKSRPLANGHPILNNHRKND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6385\\_a03.zip](https://cdn.origene.com/chromatograms/mk6385_a03.zip)

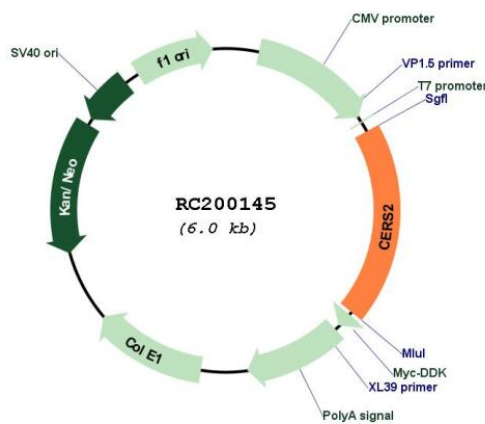
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



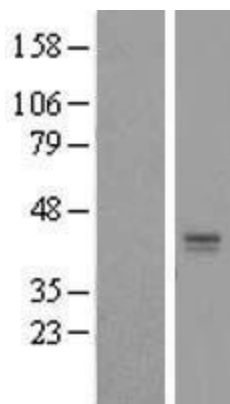
\* The last codon before the Stop codon of the ORF

**Plasmid Map:**

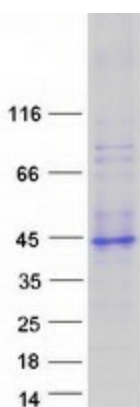


<b>ACCN:</b>	NM_022075
<b>ORF Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_022075.5</a>
<b>RefSeq Size:</b>	2504 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	29956
<b>UniProt ID:</b>	<a href="#">Q96G23</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Transcription Factors, Transmembrane
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	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]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY405622]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC215300] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CERS2 protein (Cat# [TP300145]). The protein was produced from HEK293T cells transfected with CERS2 cDNA clone (Cat# RC200145) using MegaTran 2.0 (Cat# [TT210002]).