

Product datasheet for **RG215300**

Ceramide synthase 2 (CERS2) (NM_181746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide synthase 2 (CERS2) (NM_181746) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ceramide synthase 2
Synonyms:	L3; LASS2; SP260; TMSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215300 representing NM_181746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAGACCTTGATGATTACTTCTGGTGGGAACGTCTGTGGCTGCCTGTGAACTTGACCTGGGCCG
ATCTAGAAGACCGAGATGGACGTGTCTACGCCAAAGCCTCAGATCTATATCACGCTGCCCTGGCCTT
GCTCTTCCTCATCGTTCGATACTTCTTTGAGCTGTACGTGGCTACACCACTGGCTGCCCTTTGAACATA
AAGGAGAAAACCTCGGCTGCGGGCACCTCCCAACGCCACCTTGGAACTTTCTACCTGACCACTGGCAAGC
AGCCCAAGCAGGTGGAAGTAGAGCTTTTGTCCCGCAGAGCGGGCTCTCTGGCCGCCAGGTAGAGCGTTG
GTTCCGTGCGCCGCGCAACCAGGACCGGCCAGTCTCCTCAAGAAGTTCGAGAAGCCAGCTGGAGATTC
ACATTTTACCTGATTGCCTTCATTGCCGCGATGGCCGTCATTGTGGATAAACCCCTGGTTCTATGACATGA
AGAAAGTTTGGGAGGGATATCCCATACAGAGCACTATCCCTTCCCAGTATTGGTACTACATGATTGAACT
TTCTTCTACTGGTCCCTGCTCTTCAGCATTGCCTCTGATGTCAAGCGAAAGGATTTCAAGGAACAGATC
ATCCACCATGTGGCCACCATCATTCTCATCAGCTTTTCTGGTTTGCCAATTACATCCGAGCTGGGACTC
TAATCATGGCTCTGCATGACTCTCCGATTACCTGCTGGAGTCAGCCAAGATGTTAACTACGCGGGATG
GAAGAACACCTGCAACAACATCTTCATCGTCTTCGCCATTGTTTTATCATCACCCGACTGGTCATCCTG
CCCTTCTGGATCCTGCATTGCACCTGGTGTACCACTGGAGCTATCCTGCCTCTTTGGCTATTACT
TCTTCAATTCCATGATGGGAGTTCTACAGCTGCTGCATATCTTCTGGCCCTACCTATTTTGCGCATGGC
CCACAAGTTCATAACTGGAAGCTGGTAGAAGATGAACGCACTGACCGGGAAGAAACAGAGAGCTCAGAG
GGGGAGGAGGCTGCAGCTGGGGAGGAGCAAAGAGCCGCCCTAGCCAATGGCCACCCCATCTCAATA
ACAACCATCGTAAGAATGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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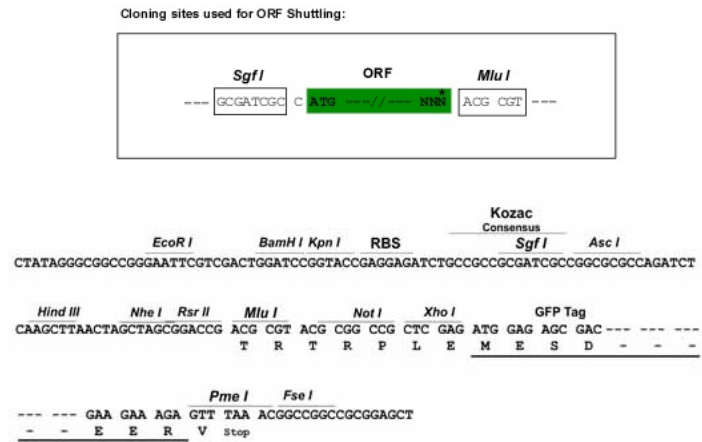
Protein Sequence: >RG215300 representing NM_181746
 Red=Cloning site Green=Tags(s)

MLQTLYDYFWWERLWLPVNLTWADLEDRDGRVYAKASDLYITLPLALLFLIVRYFFELYVATPLAALLNI
 KEKTRLRAPPNATLEHFYLTSGKQPKQVEVELLSRQSGLSGRQVERWFRRRRNQDRPSLLKKFREASWRF
 TFYLI AF IAGMAVIVDKPWFYDMKKVWEGYPIQSTIPSYWYMYIELSFYWSLLFSIASDVKRFKEQI
 IHHVATIILISFSWFANYIRAGTLIMALHDSSDYLLLESAKMFNYAGWKNTCNNIFIVFAIVFIITRLVIL
 PFWILHCTLVYPLELYPAFFGYFFNSMMGLVQLLHIFWAYLILRMAHKFITGKLVEDERSDREETESSE
 GEEAAAGGGAKSRPLANGHPILNNHRKND

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181746

ORF Size: 1140 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_181746.3](#)

RefSeq Size: 2392 bp

RefSeq ORF: 1143 bp

Locus ID: 29956

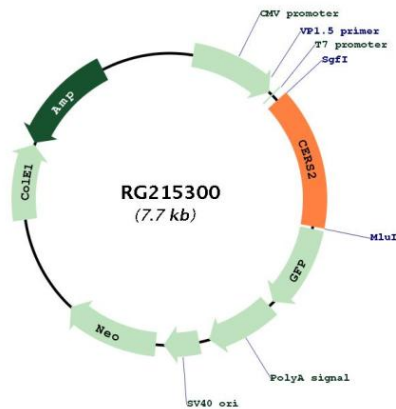
UniProt ID: [Q96G23](#)

Cytogenetics: 1q21.3

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]

Product images:



Circular map for RG215300