

Product datasheet for **RG200145**

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:	TurboGFP
Symbol:	CERS2
Synonyms:	L3; LASS2; SP260; TMSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200145 representing NM_022075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAGACCTTGATGATTACTTCTGGTGGGAACGTCTGTGGCTGCCTGTGAACTTGACCTGGGCCG
ATCTAGAAGACCGAGATGGACGTGTCTACGCCAAAGCCTCAGATCTATATCACGCTGCCCTGGCCTT
GCTCTTCCTCATCGTTCGATACTTCTTTGAGCTGTACGTGGCTACACCACTGGCTGCCCTTTGAACATA
AAGGAGAAAACCTCGGCTGCGGGCACCTCCCAACGCCACCTTGGAAACATTTCTACCTGACCAGTGGCAAGC
AGCCCAAGCAGGTGGAAGTAGAGCTTTTGTCCCGCAGAGCGGGCTCTCTGGCCGCCAGGTAGAGCGTTG
GTTCCGTGCGCCGCGCAACCAGGACCGGCCAGTCTCTCAAGAAGTTCGAGAAGCCAGCTGGAGATTC
ACATTTTACCTGATTGCCTTCATTGCCGGCATGGCCGTCATTGTGGATAAACCCCTGGTTCTATGACATGA
AGAAAGTTTGGGAGGGATATCCCATACAGAGCACTATCCCTTCCCAAGTATTGGTACTACATGATTGAACT
TTCTTCTACTGGTCCCTGCTCTTCAGCATTGCCTCTGATGTCAAGCGAAAGGATTTCAAGGAACAGATC
ATCCACCATGTGGCCACCATCATTCTCATCAGCTTTTCTGGTTTGCCAATTACATCCGAGCTGGGACTC
TAATCATGGCTCTGCATGACTCTCCGATTACCTGCTGGAGTCAGCCAAGATGTTAACTACGCGGGATG
GAAGAACACCTGCAACAACATCTTCATCGTCTTCGCCATTGTTTTATCATCACCCGACTGGTCATCCTG
CCCTTCTGGATCCTGCATTGCACCTGGTGTACCACTGGAGCTCTATCCTGCCTCTTTGGCTATTACT
TCTTCAATTCCATGATGGGAGTTCTACAGCTGCTGCATATCTTCTGGGCTACCTATTTTGGCATGGC
CCACAAGTTCATAACTGGAAGCTGGTAGAAGATGAACGCACTGACCGGGAAGAAACAGAGAGCTCAGAG
GGGGAGGAGGCTGCAGCTGGGGAGGAGCAAAGAGCCGGCCCTAGCCAATGGCCACCCCATCTCAATA
ACAACCATCGTAAGAATGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200145 representing NM_022075
 Red=Cloning site Green=Tags(s)

MLQTLYDYFWWERLWLPVNLTWADLEDRDGRVYAKASDLYITLPLALLFLIVRYFFELYVATPLAALLNI
 KEKTRLRAPPNATLEHFYLTSGKQPKQVEVELLSRQSLSGRQVERWFRRRRNQDRPSLLKKFREASWRF
 TFYLI AF IAGMAVIVDKPWFYDMKKVWEGYPIQSTIPSQYWYMIELSFYWSLLFSIASDVKRRDFKEQI
 IHHVATIILISFSWFANYIRAGTLIMALHDSDDYLLLES AKMFNYAGWKNTCNNIFIVFAIVFIITRLVIL
 PFWILHCTLVYPLELYPAFFGYFFNSMMGVQLLLHIFWAYLILRMAHKFITGKLVEDERSDREETESSE
 GEEAAAGGGAKSRPLANGHPILNNHRKND

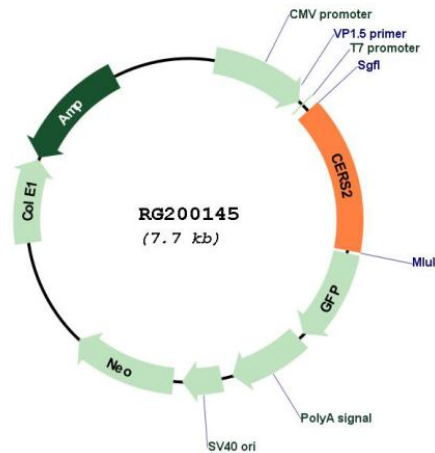
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022075

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:	<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:	NM_022075.5
RefSeq Size:	2465 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]