

## Product datasheet for **MG215337**

### Cers3 (NM\_001164201) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cers3
Synonyms:	4930550L1IRik; Gm488; Lass3; T3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG215337 representing NM\_001164201  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGTGTGTGCTCTTGAGAACAAGCTGCCTGGAACGGGAAGCCTCTCCAGTTGCTCCCACAGGCC  
AGGAGTATCCTGTGCAGACTGGCGCTTTGGGAAGAAGAATGTTTCAGACGTTTAGAAAATGGTTCTGGTC  
GGAGAGATACTGGCTTCTCCAACAATAAAGTGGTCAGACCTGGAAGATCATGATGGGCTTGCTTCGTG  
AAAGCTCCCACTTATACATCACAATCCATATGCCTTTCTTTAATGGTCGTGACTACTTCTTTGAAA  
AGTTTGTGTGTACACCTTAGCAAAATGCACCTTGGCATTAAAAAGACACAGCACAAAATTAACCAAATGC  
CATCTTAGAGAATTTTTCAAGCATTCCACAAGCAAACCATCACATACTGATATTTATGGACTGGCAAAG  
AAGTGAACCTTGACAGAGCGCCAGGTTGAAAGATGGCTTAGGATTCGGCAGAAGCAAACAAGCCTTGCA  
GGCTGCAGAAATCCAGGAGTCTTGTGGCGATTACATTTACTTGTGATAACCATGGCTGGAGCTGT  
ATTTCTGTATGACAAACCATGGGCATATGACCTCTGGGAGGTTTGGAAATGACTATCCAGACAGCCTTTG  
CTGCCCTCCAGTACTGGTACTACATTTTGGAGATGAGTTTTATTGGTCACTGGTGTTTAGCCTGAGCA  
CTGATATCAAGAGGAAGGACTTCTCGCTCATGTCATCCACCACCTGGCTGCTATTAGTCTGATGAGCTT  
CTCCTGGTGTGCTAATTACATTCGAGTGGGACCCTCGTGATGTTTATTCATGATATATCTGACATTTGG  
CTAGAGTCTGCTAAGATGTTTTCTATGCTGGATGGAAGCAGACGTGAACACCCTGTTCTTCATCTTCA  
CCGTCGCTTCTTTCATTAGCCGATTCAATTTTTCCATTCTGGATTCTGTACTGCACTCTGATCCTGCC  
TTTGCCTACTCTCGAGCCCTTCTTCTCCTACATCTTCTCAACCTCCAACCTCATGATCCTTCAGGGCCTC  
CACGTTTACTGGGTTACTTTATCCTGAAGATGCTCAACAGATGCATATTCACGCAGAACGTCAGGATG  
TGAGGAGTGACAACGAAGAGGAAGAGGAAGAGGAGGAGGAAGGAAGCAGAGAGCACCAAGGGCAAGA  
GACAGAGTATTTGAAGAATGGCCTTGGGACCAACAGGCATCTCATTGCCAATGGTCAGCATGGCCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG215337 representing NM\_001164201  
 Red=Cloning site Green=Tags(s)

MRCVALENKAAWNGKPLQLLPTGEEYPVQTGALGRRMFQTRKWFWSERYWLPPTIKWSDLEDHDGLV  
 KASHLYITIPYAFLLMVVRYFFEKVFATPLANALGIKKTQHKIKPNAILENFFKHSTSKPSHTDIYGLAK  
 KCNLTERQVERWLRIRQKQNKPCRLQKFQESCWRFTFYLLITMAGAVFLYDKPWAYDLWEVWNDYPRQPL  
 LPSQYWWWIEMSFYWSLVFSLSTDIKRDFLAHVIHHLAAISLMSFSWCANYIRSGTLVMFIHDISDIW  
 LESAKMFSYAGWKQTCNTLFFIFTVVFFISRFIIFPFWILYCTLILPLHYLEPFFSYIFLNLQLMILQGL  
 HYYWGYFILKMLNRCIFTQNVQDVRSDNEEEEEEEEEEEAESTKKGKETEYLNKGLGTRHLLIANGQHGR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164201

**ORF Size:** 1257 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001164201.1](#), [NP\\_001157673.1](#)

**RefSeq Size:** 3251 bp

**RefSeq ORF:** 1260 bp

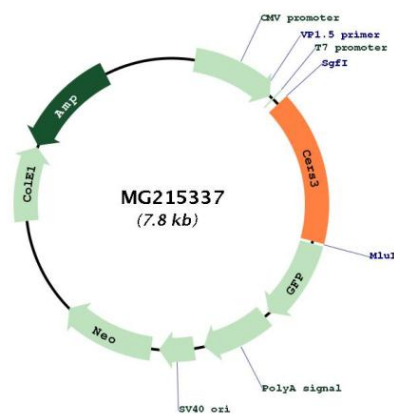
**Locus ID:** 545975

**UniProt ID:** [Q1A3B0](#)

**Cytogenetics:** 7 C

**Gene Summary:** Has (dihydro)ceramide synthesis activity with relatively broad substrate specificity, but a preference for C18:0 and other middle- to long-chain fatty acyl-CoAs. It is crucial for the synthesis of very long-chain ceramides in the epidermis, to maintain epidermal lipid homeostasis and terminal differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG215337