

Product datasheet for **RG207649**

Lass5 (CERS5) (NM_147190) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lass5 (CERS5) (NM_147190) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lass5
Synonyms:	LASS5; Trh4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207649 representing NM_147190 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACAGCAGCGCAGGGACCCCTAAGCTTGCTGTGGGGCTGGCTGTGGAGCGAGCGCTTCTGGCTAC
CCGAGAACGTGAGCTGGGCTGATCTGGAGGGCCGGCCGACGGCTACGGTTACCCCGCGGCCGGCACAT
CCTCTCGGTGTTCCCGCTGGCGGGGGCATCTTCTTCGTGAGGCTGCTCTCGAGCGATTTATTGCCAAA
CCCTGTGCACTCTGTATTGGCATCGAGGACAGTGGTCCTTATCAGGCCAACCCAATGCCATCCTTGAAA
AGGTGTTCAATCTATTACCAAGTATCCTGATAAGAAAAGGCTGGAGGGCCTGTCAAAGCAGCTGGATTG
GAATGTCCGAAAAATCCAATGCTGGTTTTCGCCATCGGAGGAATCAGGACAAGCCCCAACGTTACTAAA
TTCTGTGAAAGCATGTGGAGATTCACATTTTATTTATGTATATTCTGCTATGGAATTAGATTTCTCTGGT
CGTCACCTTGGTCTGGGACATCCGACAGTGTGGCATAACTATCCATTTAGCCTCTTTCAAGTGGGCT
TTACTACTATTATCATGGAATTGGCCTTCTATTGGTCCCTTATGTTTTCTCAGTTTACAGACATTA
AGAAAGGACTTCCGTATCATGTTTGTGCATCACTTGGTACCATTGGGCTTATCTCCTTCTCCTACATCA
ACAATATGGTTCGAGTGGGAACCTGATCATGTGTCTACATGATGTCTCAGACTTCTTGTGGAGGCAGC
CAAAGTGGCCAATTATGCCAAGTATCAGCGGCTCTGTGACACCCTTTTGTGATCTTCAGTGTGTTTTT
ATGGTTACACGACTAGGAATCTATCCATTCTGGATTCTGAACAGACCCTTTTGGAGATTGGGAGATA
TCGGGCCTTATGCTTTCATGGTGGCTCCTCAATGGCCTGCTGACCCTACAGCTTCTGCATGTCATCTG
GTCTACCTAATTGCACGGATTGCTTTGAAAGCCTTGATCAGGGGAAAGGTATCGAAGGATGATCGCAGT
GATGTGGAGAGCAGCTCAGAGGAAGAAGATGTGACCACCTGCACAAAAAGTCCCTGTGACAGTAGCTCCA
GCAATGGTGCCAATCGGGTGAATGGTCACATGGGAGGCAGCTACTGGGCTGAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207649 representing NM_147190
 Red=Cloning site Green=Tags(s)

MATAAQGPLSLLWGWLWSERFWLPENVSADLEGPADGYGPRGRHLSVFPLAAGIFFVRLLEFERFIAK
 PCALCIGIEDSGPYQAQPNAILKVFISITKYPDKRLEGLSKQLDWNVRKIQCWFRHRRNQDKPPTLTK
 FCESMWRFTFYLCIFCYGIRFLWSSPWFDIRQCWHNYPFQPLSSGLYHYIMELAFYWSLMFSQFTDIK
 RKDFLIMFVHHLVTIGLISFSYINMVRVGTLMCLHDVSDFLLEAAKLANYAKYQRLCDTLFVIFSAVF
 MVTRLGIYPFWILNNTTLFESWEIIGPYASWLLNGLLLTLQLLHVIEWSYLIARIALKALIRGKVSQKDDRS
 DVESSEEEEDVTCTKSPCDSSSNGANRVNGHMGGSYWAAE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3783_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147190

ORF Size: 1176 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_147190.5](#)

RefSeq Size: 1986 bp

RefSeq ORF: 1179 bp

Locus ID: 91012

UniProt ID: [Q8N5B7](#)

Cytogenetics: 12q13.12

Domains: homeobox, LAG1, TLC

Protein Families: Transcription Factors, Transmembrane

Gene Summary: This gene encodes a protein that belongs to the TLC (TRAM, LAG1 and CLN8 homology domains) family of proteins. The encoded protein functions in the synthesis of ceramide, a lipid molecule that is involved in a several cellular signaling pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG207649