

## Product datasheet for **RG207088**

### LMAN1 (NM\_005570) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LMAN1 (NM_005570) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LMAN1
Synonyms:	ERGIC-53; ERGIC53; F5F8D; FMFD1; gp58; MCFD1; MR60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207088 representing NM\_005570  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGGATCCAGGCAAAGGGTCTCCGGGCCAGAGTTCGGCCGCTGTTCTGCGCCTTGCTGCTGTAC  
 TCGGTCGCTTCGTCGGGGCGACGGCGTGGGAGGAGACCCCGCGTTCGCGTTGCCACATCGCCGTTTCGA  
 GTACAAATACAGCTTCAAGGGGCCGACCTGGTGCAGAGCGACGGACCGTCCCTTCTGGGCCACGCG  
 GGAATGCTATTCCAAGTTCAGATCAAATTCGAGTAGCACCATCTTTAAAAAGCCAAAGAGGCTCAGTGT  
 GGACAAAGACAAAAGCGGCCTTTGAGAAGTGGGAGTTGAGGTGACATTCGAGTGACTGGAAGAGGTGCG  
 AATTGGAGCTGATGGCTAGCAATTTGGTATGCAGAAAATCAAGGCTGGAGGGCCCTGTGTTGGATCA  
 GCTGATCTGTGGAATGGTGTGGAATATTTTTGATTCTTTGACAATGATGAAAGAAAAATAATCCTG  
 CTATAGTAATTATAGGCAACAATGGACAAATCCATTATGACCATCAAAATGACGGGGCTAGTCAAGCTTT  
 GGCAAGTTGCCAGAGGGACTTCCGCAACAAACCCTATCCTGTCCGAGCAAAGATTACCTATTACCAGAAC  
 AACTGACAGTAATGATCAATAATGGCTTTACACCAGATAAAAAATGATTATGAATTTGTGCCAAAGTGG  
 AAAATATGATTATCCCTGCACAAGGGCATTGGAATATCTGCTGCAACTGGAGGCTTGCAGATGACCA  
 TGATGTCTTTCTTTCTGACTTTCCAGTTGACTGAACCTGAAAAGAGCCGCCACACCAGATAAAGAA  
 ATTTCCGAAAAGGAAAAGAAAAGTATCAGGAGGAATTTGAGCACTTTCAACAAGAAATGGATAAAAAA  
 AAGAGGAATCCAGAAGGGCCACCCGACCTCCAAGGGCAGCCTGCGGAGGAAATATTTGAGAGTGTAGG  
 AGATCGAGAGCTAAGACAAGTCTTTGAGGACAGAATCGTATTCATCTTGAATCAAGCAGCTGAACCGG  
 CAGTTAGATATGATTCTTGATGAACAGAGAAGATATGTCTTCTTAAACAGAGGAAATCTCTAAAAGAG  
 GAGCAGGAATGCCTGGGCAGCATGGCAGATTACTCAACAAGAAGTGGATACTGTTGAAAAGTCAAGAG  
 TGAGATTCTGAGACAAGTAAATGAAATGAAAAATTCCTTGAGTGAACCGTCAGACTGGTCAAGTGAATG  
 CAGCACCTGGCTCTGCTGGAGGCTCTATGAGACAACACAGCACTTCATTGACATCAAAGACACCTGC  
 ACATAGTAAAGAGGGACATAGATAAATTAGTGCAGCGAAATATGCCATCAATGAAAAGCCGAAATGCC  
 AGAACTACCACATTTCCATCATGTTTGTCTACGGTCCACTTCATTATATTTGTTGTTGGTCAAACCTGTA  
 TTATTCATTGGTTATATCATGTATAGGTCTCAGCAAGAAGCAGCTGCCAAAAATTTCTTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207088 representing NM\_005570  
 Red=Cloning site Green=Tags(s)

MAGSRQRLRARVRPLFCALLLSLGRFVRGDVGGDPAVALPHRRFEYKYSFKGPHLVQSDGTVPFVAHA  
 GNAIPSSDQIRVAPSLKSQRGSVWTKTKAAFENWEVEVTFRVTRGRIGADGLAIWYAENQGLEGPVFGS  
 ADLWNGVGIFFDSFDNDGKKNPAIVIIIGNNGQIHYDHQNDGASQALASCQRDFRNKPYVRAKITYYQN  
 TLTVMINNGFTDPKNDYEFCAKVENMIIPAQGHFGISAATGGLADDHDLVSLTFQLTEPGKEPPTPDKE  
 ISEKEKEKYQEEFEHFQQLDKKKEEFQKGHPDLQGPAAEIEFESVGDRELQVFEQNRHLEIKQLNR  
 QLDMILDEQRRYVSSLTEEISKRGAGMPGQHGQITQQELDTVVKTQHEILRQVNMKNLSLSETVRLVSGM  
 QHPGSAGGVYETTQHFIDIKEHLHIVKRDIDNLVQRNMPSPNEKPKPELPPFSLSTVHFIIFFVVVQTV  
 LFIGYIMYRSQQEAAAKKFF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005570

**ORF Size:** 1530 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\\_005570.2](#), [NP\\_005561.1](#)

**RefSeq Size:** 2764 bp

**RefSeq ORF:** 1533 bp

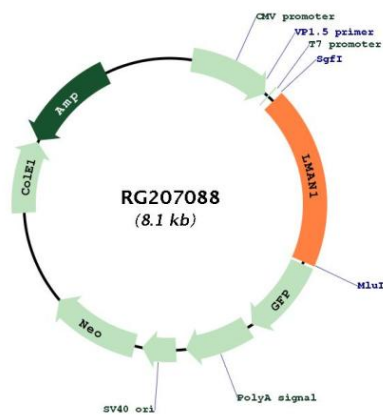
**Locus ID:** 3998

**UniProt ID:** [P49257](#)

**Cytogenetics:** 18q21.32

Domains:	Lectin_leg-like
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is a membrane mannose-specific lectin that cycles between the endoplasmic reticulum, endoplasmic reticulum-Golgi intermediate compartment, and cis-Golgi, functioning as a cargo receptor for glycoprotein transport. The protein has an N-terminal signal sequence, a calcium-dependent and pH-sensitive carbohydrate recognition domain, a stalk region that functions in oligomerization, a transmembrane domain, and a short cytoplasmic domain required for organelle targeting. Allelic variants of this gene are associated with the autosomal recessive disorder combined factor V-factor VIII deficiency. [provided by RefSeq, Jul 2015]

## Product images:



Circular map for RG207088