

## Product datasheet for **RG205279**

### LANCL1 (NM\_006055) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LANCL1 (NM_006055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LANCL1
Synonyms:	GPR69A; p40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205279 representing NM_006055 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAAAGGGCCTTCCCGAATCCTTATGCTGATTATAACAAATCCCTGGCCGAAGGCTACTTTGATG  
CTGCCGGGAGGCTGACTCCTGAGTTCTCACAACGCTTGACCAATAAGATTCGGGAGCTTCTTCAGCAAAT  
GGAGAGAGGCCTGAAATCAGCAGACCCTCGGGATGGCACCAGTTACTGGCTGGCAGGTATTGCTGTG  
CTTTACTTACATCTTTATGATGATTTGGGACCCTGCCTACCTACAGTTAGCACATGGCTATGTAAGC  
AAAGTCTGAAGCTTAACCAAGCGCTCCATCACCTTCTTTGTGGGGATGCAGGCCCTGGCAGTGGC  
CGCTGTGCTATATCAAGATGAACAATGAGAAGCAGGCAGAAGATTGCATCACACGGCTAATTCACCTA  
AATAAGATTGATCCTCATGCTCCAAATGAAATGCTCTATGGGCGAATAGGCTACATCTATGCTCTCTTT  
TTGTCAATAAGAACTTTGGAGTGGAAAAGATTCCTCAAAGCCATATTCAGCAGATTTGTGAAACAATTTT  
AACCTCTGGAGAAAACCTAGCTAGGAAGAGAACTTCACGGCAAAGTCTCCACTGATGTATGAATGGTAC  
CAGGAATATTATGTAGGGGCTGCTATGGCCTGGCTGGAATTTACTACTGATGCAGCCAGCCTTC  
AAGTGAGCCAAGGAAGTTACATAGTTTGGTCAAGCCCAGTGTAGACTACGCTGCCAGCTGAAATTCCT  
TTCTGGCAATTACCCTCCATGTATAGGTGATAATCGAGATCTGCTTGCCATTGGTGCCATGGCGCCCT  
GGGTAATCTACATGCTCATCCAGGCCTATAAGGTATTCAGAGAGGAAAGTATCTCTGTGATGCCATC  
AGTGTGCTGATGTGATCTGGCAATATGGGTTGCTGAAGAAGGGATATGGGCTGTGCCACGGTTCTGCAGG  
GAATGCCTATGCCTTCTGACACTCTAACCTCACACAGGACATGAAGTACCTGTATAGGGCCTGTAAG  
TTTGCTGAATGGTCTTAGAGTATGGAGAACATGGATGCAGAACACCAGACACCCCTTTCTCTCTTTG  
AAGGAATGGCTGGAACAATATATTTCTGGCTGACCTGCTAGTCCCCACAAAAGCCAGGTTCCCTGCATT  
TGAAGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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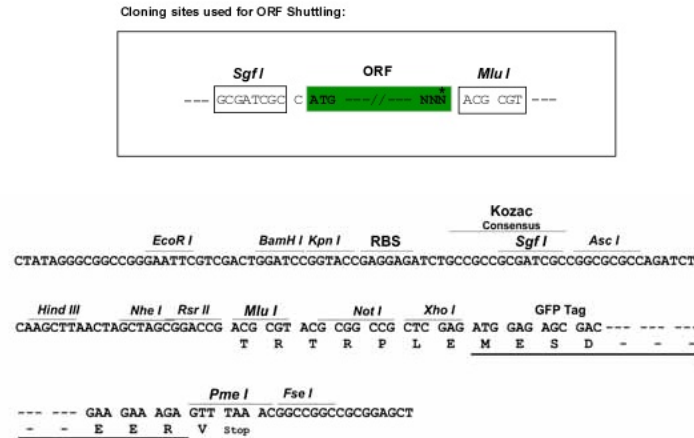
**Protein Sequence:** >RG205279 representing NM\_006055  
 Red=Cloning site Green=Tags(s)

MAQRAFPNPYADYNKSLAEGYFDAAGRLTPEFSQRLTNKIRELLQQMERGLKSADPRDGTGYTGWAGIAV  
 LYLHLVDVFGDPAYLQLAHGYVKQSLNCLTKRSITFLCGDAGPLAVAAYLYHKMNEKQAEDCITRLIHL  
 NKIDPHAPNEMLYGRIGIYIYALLFVNKNFGVEKIPQSHIQQICETILTSGENLARKRNFTAKSPLMYEWY  
 QEYYVGAHGLAGIYYLMPQLVQSQGKLHSLVKPSVDYVCQLKFPNGNYPPCIGDNRDLLVHWCHGAP  
 GVIYMLIQAYKVFREEKYLCDAYQCADVIWQYGLLKKGYGLCHGSAGNAYFLTLYNLTQDMKYLYRACK  
 FAEWCLEYGEHGCRTPDTPFSLFEGMAGTIYFLADLLVPTKARFPAPFEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006055

**ORF Size:** 1197 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\\_006055.3](#)

**RefSeq Size:** 4544 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 10314

**UniProt ID:** [O43813](#)

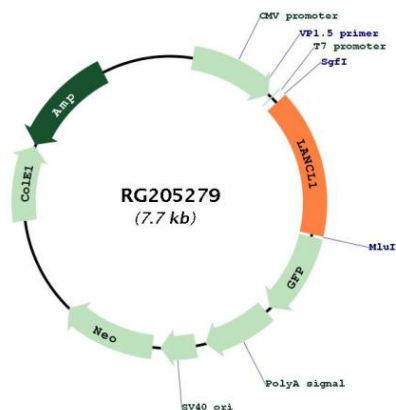
**Cytogenetics:** 2q34

**Domains:** LANC\_like

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a loosely associated peripheral membrane protein related to the LanC family of bacterial membrane-associated proteins involved in the biosynthesis of antimicrobial peptides. This protein may play a role as a peptide-modifying enzyme component in eukaryotic cells. Previously considered a member of the G-protein-coupled receptor superfamily, this protein is now in the LanC family. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008]

### Product images:



Circular map for RG205279