

Product datasheet for **RG226718**

LANCL1 (NM_001136575) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LANCL1 (NM_001136575) 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:	>RG226718 representing NM_001136575 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAAAGGGCCTTCCCGAATCCTTATGCTGATTATAACAAATCCCTGGCCGAAGGCTACTTTGATG
CTGCCGGGAGGCTGACTCCTGAGTTCTCACAACGCTTGACCAATAAGATTCGGGAGCTTCTTCAGCAAAT
GGAGAGAGGCCTGAAATCAGCAGACCCTCGGGATGGCACCAGTTACTGGCTGGCAGGTATTGCTGTG
CTTTACTTACATCTTTATGATGATTTGGGACCCTGCCTACCTACAGTTAGCACATGGCTATGTAAGC
AAAGTCTGAAGCTTAACCAAGCGCTCCATCACCTTCTTTGTGGGGATGCAGGCCCTGGCAGTGGC
CGCTGTGCTATATCAAGATGAACAATGAGAAGCAGGCAGAAGATTGCATCACACGGCTAATTCACCTA
AATAAGATTGATCCTCATGCTCCAAATGAAATGCTCTATGGGCGAATAGGCTACATCTATGCTCTCTTT
TTGTCAATAAGAACTTTGGAGTGAAAAAGATTCCTCAAAGCCATATTCAGCAGATTTGTGAAACAATTTT
AACCTCTGGAGAAAACCTAGCTAGGAAGAGAACTTCACGGCAAAGTCTCCACTGATGTATGAATGGTAC
CAGGAATATTATGTAGGGGCTGCTATGGCCTGGCTGGAATTTATTACTACCTGATGCAGCCAGCCTTC
AAGTGAGCCAAGGAAGTTACATAGTTTGGTCAAGCCCAGTGTAGACTACGCTGCCAGCTGAAATTCCT
TTCTGGCAATTACCCTCCATGTATAGGTGATAATCGAGATCTGCTTGCCATTGGTGCCATGGCAGCCCT
GGGTAATCTACATGCTCATCCAGGCCTATAAGGTATTCAGAGAGGAAAAGTATCTCTGTGATGCCTATC
AGTGTGCTGATGTGATCTGGCAATATGGTTGCTGAAGAAGGGATATGGGCTGTGCCACGGTTCTGCAGG
GAATGCCTATGCCTTCTGACACTCTAACCTCACACAGGACATGAAGTACCTGTATAGGGCCTGTAAG
TTTGCTGAATGGTCTTAGAGTATGGAGAACATGGATGCAGAACCAGACACCCCTTTCTCTCTTTG
AAGGAATGGCTGGAACAATATATTTCTGGCTGACCTGCTAGTCCCACAAAAGCCAGGTTCCCTGCATT
TGAAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226718 representing NM_001136575
 Red=Cloning site Green=Tags(s)

MAQRAFPNPYADYNKSLAEGYFDAAGRLTPEFSQRLTNKIRELLQQMERGLKSADPRDGTGYTGWAGIAV
 LYLHL YDVF GDPAYLQLAHGYVKQSLNCLTKRSITFLCGDAGPLAVA AVL YHKMNEKQAEDCITRLIHL
 NKIDPHAPNEMLYGRIGYIYALLFVNKNFGVEKIPQSHIQQICETILTSGENLARKRNFTAKSPLMYEWY
 QEYYVGA AHGLAGIYYLLMQPSLQVSQGLHSLVKPSVDYVCQLKFP SGNYPCCIGDNRDLLVHWCHGAP
 GVIYMLIQAYKVFREEKYLCDAYQCADVIWQYGLLKKGYGLCHGSAGNAY AFLTLYNLTQDMKYLYRACK
 FAEWCLEYGEHGCRTPDTPFSLFEGMAGTIYFLADLLVPTKARFP AFEL

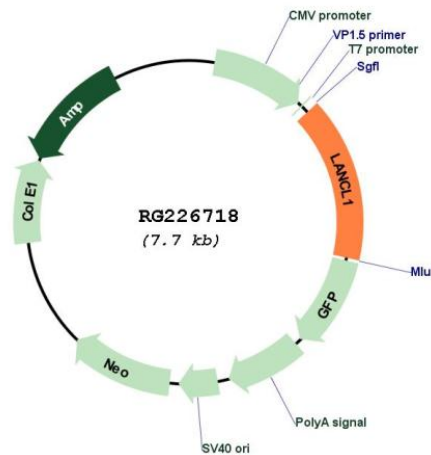
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001136575

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:	<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_001136575.1 , NP_001130047.1
RefSeq Size:	4526 bp
RefSeq ORF:	1200 bp
Locus ID:	10314
UniProt ID:	O43813
Cytogenetics:	2q34
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]