

## Product datasheet for RR213172

### Lancl1 (NM\_053723) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lancl1 (NM_053723) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lancl1
Synonyms:	GPR69A; p40
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213172 representing NM_053723 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTCAGAGGGCCTTCCGAATCCTTATGCCGATTATAACAAGTCGCTGGCCGAAAACATTTTGGATT  
CTACTGGGAGGCTGACTCCTGAGTTTTACATCGCTTGACCAATAAGATCCGGGAGCTCCTCAGCAAAT  
GGAGAGAGGCCTAAAGTCTGCAGACCCTCAGGACGGCACTGGATACACCGGCTGGGCAGGCATTGCTGTG  
CTTTACCTTCATCTCCACAATGTGTTTGGGGACCCGGCCTATCTGCAGATGGCGCACAGCTATGTAAGC  
ACAGCCTCAACTGTTTGGCAGGCGGTCCATCACCTTCTGTGTGGGGACGCGGGCCCCCTGGCTGTGGC  
TGCTGTGCTGTACCACAAGATGAACAGCGGGAAGCAGGCAGAGGATTGCATCACACGGCTCATTACCTA  
AATAAGATTGATCCCCACGTACCAAAATGAAATGCTCTACGGCCGCATAGGCTACATCTTCGCTCTGCTTT  
TTGTCAATAAGAACTTTGGAGAGGAGAAGATTCCTCAGAGCCACATTGAGCAGATTTGTAAACCATCTT  
AACCTCTGGGGAGAAGCTGTCTAGAAAGAGAACTTCACAACGAAATCCCCACTGATGTACGAGTGGTAC  
CAGGAGTATTACGTGGGGGCTGCCACGGCTTGGCGGCATTTATTACTACCTGATGCAGCCAGCCTTC  
ATGTAAGCCAAGGAAGTTACATAGTTTGGTGAACCCAGTGTAGACTTTGTCTGCCAGCTGAAGTTCCC  
TTCTGGCAACTACCCTTCATGTTTGGATGACACCAGAGACTGCTTGTCCACTGGTGCCATGGCGCCCT  
GGGTCATCTATATGCTCATCCAAGCATACAAGGTGTTCAAAGAGGAGCATTACCTGTGTGACGCCACGC  
AGTGTGCTGACGTGATCTGGCAGTACGGGCTACTGAAGAAGGGCTATGGGCTGTGCCACGGTGTGCAGG  
GAATGCCTATGCTTTCCTGGCACTCTATAACCTCACACAAGATGCGAAATACCTGTACAGGGCCTGTAAG  
TTTGCTGAGTGGTCTTAGACTATGGAGAGCACGGGTGCAGGACACCGGACACGCCCTTCTCTCTTTG  
AAGGGATGGCTGGAACGATATATTTCTGGCTGACCTGTTAGTCCCACAAGGCCAAGTCCCTGCATT  
TGAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR213172 representing NM\_053723  
Red=Cloning site Green=Tags(s)

MAQRAFPNPYADYNKSLAENYFDSTGRL TPEFSHRL TNKIRELLQQMERGLKSADPQDGTGYTGWAGIAV  
 LYLHLHNVFGDPAYLQMAHSYVKHSLNCLSRRSITFLCGDAGPLAVA AVL YHKMNSGKQAEDCITRLIHL  
 NKIDPHVPNEMLYGRIGYIFALLFVNKNFGEEKIPQSHIQQICETILTSGEKL SRKRNF TTKSPLMYEWY  
 QEYVVGA AHGLAGIYYL M QPSLHVSQGLHSLVKPSVDFVCQLKFP SGNYP SCLDDTRDLLVHWCHGAP  
 GVIYMLIQAYKVFKEEHLCDAAQQCADVIWQYGLLKKGYGLCHGAAGNAY AFLALYNLTQDAKYL YRACK  
 FAEWCLDYGEHGCRTPDTPFSLFEGMAGTIYFLADLLVPTKAKFP AFEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

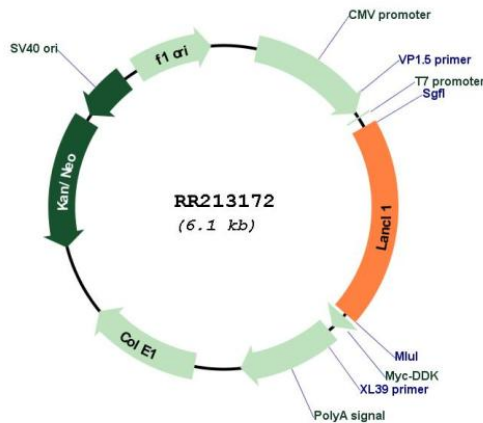
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053723

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_053723.1</a> , <a href="#">NP_446175.1</a>
<b>RefSeq Size:</b>	1470 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	114515
<b>UniProt ID:</b>	<a href="#">Q9QX69</a>
<b>Cytogenetics:</b>	9q32
<b>MW:</b>	45.2 kDa
<b>Gene Summary:</b>	peptide-modifying enzyme; may be involved in modification and transport of antimicrobial peptides [RGD, Feb 2006]