

Product datasheet for MR222404

Lancl1 (NM_001190985) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lancl1 (NM_001190985) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lancl1
Synonyms: AW124738; Gpr69; Gpr69a; p40
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222404 representing NM_001190985
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCAGAGGGCCTTTCCGAATCCTTATGCCGATTATAACAAGTCGCTGGCCGAAAACACTTTGATT
 CTA**CTGGGAGGCTGACTCCTGAGTTCTCACATCGCTTGACCAATAAGATCCGAGAGCTCCTTCAGCAAAT**
 GGAGAGAGGCCTAAAGTCTGCAGACCCTCGGGATGGCACTGGGTACACTGGCTGGCAGGCATCGCTGTG
 CTTTACCTCCACCTCCACAATGTGTTTGGGACCCAGCCTATCTACAGATGGCGCACAGCTATGTAAGC
 AAAGCCTCAACTGTCTGAGCAGGCGTTCATCACCTTCTGTGTGGCGATGCGGGCCCCCTGGCTGTGGC
 TGCTGTGCTGTACCACAAGATGAACAGTGAGAAGCAGGCCGAGGAGTGCATCACACGGCTATTCACCTA
 AATAAGATTGATCCCCACGTACCAAATGAAATGCTCTATGGCCGCATAGGCTACATCTTTGCTCTGCTTT
 TTGTCAATAAGAACTTTGGAGAGGAGAAGATTCTCAGAGCCATATTCAGCAGATTTGTGAAAACATCTT
 AACCTCTGGGGAAAACCTATCTAGAAAGAGAACTTGGCGGCAAAGTCTCCACTGATGTATGAGTGGTAC
 CAGGAATATTACGTGGGGGCTGCTCATGGCTTGGCAGGCATTTATTACTACCTGATGCAGCCAGCCTTC
 AGGTGAACCAAGGAAAGTTGCATAGTTTGGTGAAGCCAGTGTAGACTTTGTCTGCCGGCTGAAGTTTCC
 TTCCGGCAATTACCCTCCATGTTTGGATGATACCAGAGACCTGCTTGCCATTGGTGCCACGGTGCTCCT
 GGGTCACTATATGCTCATCCAAGCATACAAGTGTTCAAAGAAGAGCGTTACCTGTGTGATGCCCAGC
 AGTGTGCTGACGTGATCTGGCAGTACGGGCTACTGAAGAAGGGCTACGGGCTGTGCCATGGTGTGCAGG
 GAATGCCTACGCTTTCCTGGCACTCTAACCTCACACAGGATCTGAAGTATCTGTACAGGGCCTGCAAG
 TTTGCTGAGTGGTCTTAGACTACGGGAGCACGGATGCAGGACAGCGGACACCCCTTCTCCCTTTTG
 AAGGGATGGCTGGAACAATATATTTCTGGCTGACCTGTTAGTCCCCACAAGGCCAAGTTCCTGCATT
 TGA**ACT**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222404 representing NM_001190985
Red=Cloning site Green=Tags(s)

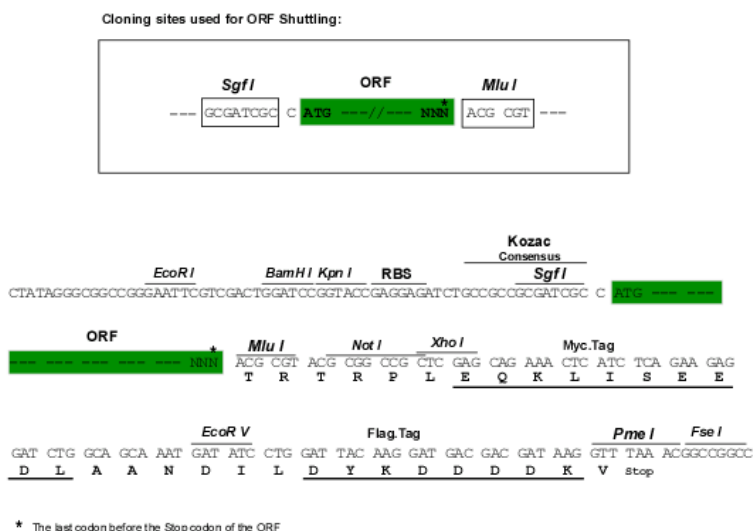
MAQRAFNPYADYNKSLAENYFDSTGRL TPEFSHRL TNKIRELLQQMERGLKSADPRDGTGYTGWAGIAV
 LYLHLHNVFGDPAYLQMAHSYVKQSLNCLSRRSITFLCGDAGPLAVA AVL YHKMNSEKQAEECITRLIHL
 NKIDPHVPNEMLYGRIGYIFALLFVNKNFGEEKIPQSHIQQICENILTSGENLSRKRNLAAKSPLMYEWY
 QEYYVGA AHGLAGIYYL M Q P S L Q V N Q G K L H S L V K P S V D F V C R L K F P S G N Y P P C L D D T R D L L V H W C H G A P
 G V I Y M L I Q A Y K V F K E E R Y L C D A Q Q C A D V I W Q Y G L L K K G Y G L C H G A A G N A Y A F L A L Y N L T Q D L K Y L Y R A C K
 F A E W C L D Y G E H G C R T A D T P F S L F E G M A G T I Y F L A D L L V P T K A K F P A F E L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9057_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001190985

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_001190985.1](#), [NP_001177914.1](#)

RefSeq Size: 4461 bp

RefSeq ORF: 1200 bp

Locus ID: 14768

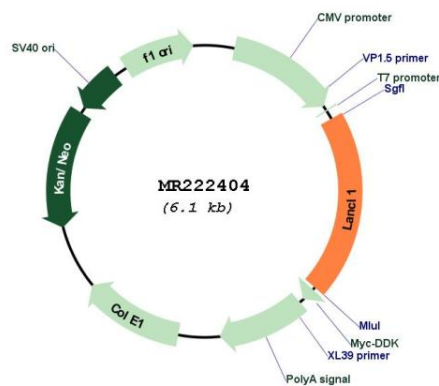
UniProt ID: [O89112](#)

Cytogenetics: 1 C3

MW: 45.3 kDa

Gene Summary: Functions as glutathione transferase (PubMed:25158856). Catalyzes conjugation of the glutathione (GSH) to artificial substrates 1-chloro-2,4-dinitrobenzene (CDNB) and p-nitrophenyl acetate (PubMed:25158856). Mitigates neuronal oxidative stress during normal postnatal development and in response to oxidative stresses probably through GSH antioxidant defense mechanism (PubMed:25158856). May play a role in EPS8 signaling. Binds glutathione (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222404