OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR206265

Lancl1 (NM_001190984) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lancl1 (NM_001190984) 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:

>MR206265 representing NM_001190984
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGAGGGCCTTTCCGAATCCTTATGCCGATTATAACAAGTCGCTGGCCGAAAACTACTTTGATT
CTACTGGGAGGCTGACTCCTGAGTTCTCACATCGCTTGACCAATAAGATCCGAGAGCTCCTTCAGCAAAT
GGAGAGAGGCCTAAAGTCTGCAGACCCTCGGGATGGCACTGGGTACACTGGCTGGGCAGGCATCGCTGTG
CTTTACCTCCACCTCCACAATGTGTTTGGGGACCCAGCCTATCTACAGATGGCGCACAGCTATGTAAAGC
AAAGCCTCAACTGTCTGAGCAGGCGTTCCATCACCTTCCTGTGTGGCGATGCGGGCCCCCTGGCTGTGGC
TGCTGTGCTGTACCACAAGATGAACAGTGAGAAGCAGGCCGAGGAGTGCATCACACGGCTCATTCACCTA
AATAAGATTGATCCCCACGTACCAAATGAAATGCTCTATGGCCGCATAGGCTACATCTTTGCTCTGCTTT
TTGTCAATAAGAACTTTGGAGAGGAGAAGATTCCTCAGAGCCATATTCAGCAGATTTGTGAAAACATCTT
AACCTCTGGGGAAAACCTATCTAGAAAGAGAAACTTGGCGGCAAAGTCTCCACTGATGTATGAGTGGTAC
CAGGAATATTACGTGGGGGCTGCTCATGGCTTGGCAGGCATTTATTACTACCTGATGCAGCCCAGCCTTC
AGGTGAACCAAGGAAAGTTGCATAGTTTGGTGAAGCCCAGTGTAGACTTTGTCTGCCGGCTGAAGTTTCC
TTCCGGCAATTACCCTCCATGTTTGGATGATACCAGAGACCTGCTTGTCCATTGGTGCCACGGTGCTCCT
GGGGTCATCTATATGCTCATCCAAGCATACAAGGTGTTCAAAGAAGAGCGTTACCTGTGTGATGCCCAGC
AGTGTGCTGACGTGATCTGGCAGTACGGGCTACTGAAGAAGGGCTACGGGCTGTGCCATGGTGCTGCAGG
GAATGCCTACGCTTTCCTGGCACTCTACAACCTCACACAGGATCTGAAGTATCTGTACAGGGCCTGCAAG
TTTGCTGAGTGGTGCTTAGACTACGGGGAGCACGGATGCAGGACAGCGGACACCCCCTTCTCCCTCTTTG
AAGGGATGGCTGGAACAATATATTTCTTGGCTGACCTGTTAGTCCCCACAAAGGCCAAGTTCCCTGCATT
TGAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

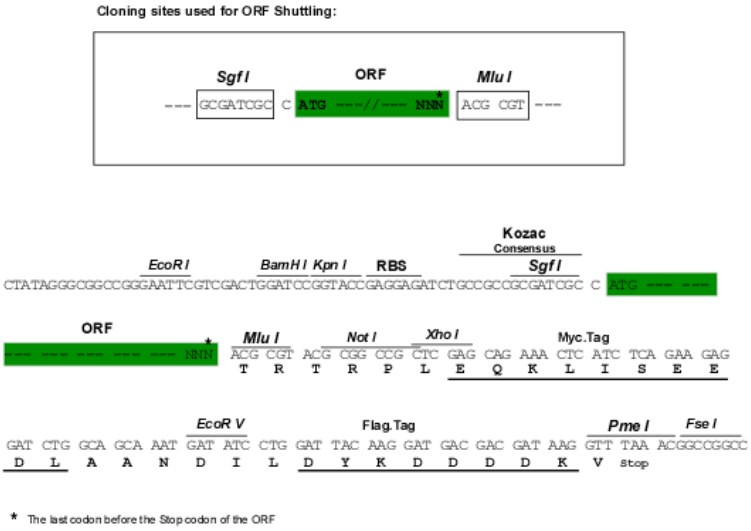
>MR206265 representing NM_001190984
Red=Cloning site Green=Tags(s)

MAQRAFPNPYADYNKSLAENYFDSTGRLTPEFSHRLTNKIRELLQQMERGLKSADPRDGTGYTGWAGIAV
LYLHLHNVFGDPAYLQMAHSYVKQSLNCLSRRSITFLCGDAGPLAVAAVLYHKMNSEKQAEECITRLIHL
NKIDPHVPNEMLYGRIGYIFALLFVNKNFGEEKIPQSHIQQICENILTSGENLSRKRNLAAKSPLMYEWY
QEYYVGAAHGLAGIYYYLMQPSLQVNQGKLHSLVKPSVDFVCRLKFPSGNYPPCLDDTRDLLVHWCHGAP
GVIYMLIQAYKVFKEERYLCDAQQCADVIWQYGLLKKGYGLCHGAAGNAYAFLALYNLTQDLKYLYRACK
FAEWCLDYGEHGCRTADTPFSLFEGMAGTIYFLADLLVPTKAKFPAFEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001190984

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_001190984.1, NP_001177913.1

RefSeq Size: 4243 bp

RefSeq ORF: 1200 bp

Locus ID: 14768

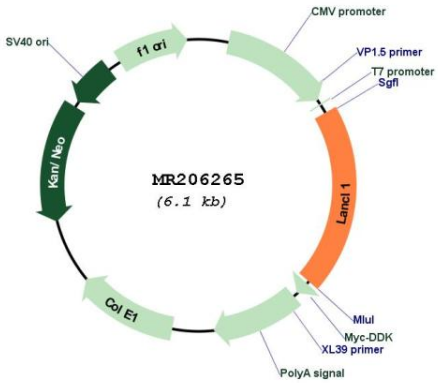
UniProt ID: O89112

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 MR206265