

Product datasheet for **MG206265**

Lancl1 (NM_021295) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lancl1 (NM_021295) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lancl1
Synonyms: AW124738; Gpr69; Gpr69a; p40
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206265 representing NM_021295
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCAGAGGGCCTTTCCGAATCCTTATGCCGATTATAACAAGTCGCTGGCCGAAAACACTTTGATT
CTACTGGGAGGCTGACTCCTGAGTTCTCACATCGCTTGACCAATAAGATCCGAGAGCTCCTTCAGCAAAT
GGAGAGAGGCCTAAAGTCTGCAGACCCTCGGGATGGCACTGGGTACACTGGCTGGCAGGCATCGCTGTG
CTTTACCTCCACCTCCACAATGTGTTTGGGACCCAGCCTATCTACAGATGGCGCACAGCTATGTAAGC
AAAGCCTCAACTGTCTGAGCAGGCGTTCATCACCTTCCTGTGTGGCGATGCGGGCCCCCTGGCTGTGGC
TGCTGTGCTGTACCACAAGATGAACAGTGAGAAGCAGGCCGAGGAGTGCATCACACGGCTCATTCACCTA
AATAAGATTGATCCCCACGTACCAAATGAAATGCTCTATGGCCGCATAGGCTACATCTTTGCTCTGCTTT
TTGTCAATAAGAACTTTGGAGAGGAGAAGATTCCTCAGAGCCATATTCAGCAGATTTGTGAAAACATCTT
AACCTCTGGGAAAACCTATCTAGAAAGAGAACTTGGCGGCAAAGTCTCCACTGATGTATGAGTGGTAC
CAGGAATATTACGTGGGGCTGCTCATGGCTTGGCAGGCATTTATTACTACCTGATGCAGCCAGCCTTC
AGGTGAACCAAGGAAAGTTGCATAGTTTGGTGAAGCCAGTGTAGACTTTGTCTGCCGGCTGAAGTTTCC
TTCCGGCAATTACCCTCCATGTTTGGATGATACCAGAGACCTGCTTGTCCATTGGTGCCACGGTGCTCCT
GGGTCATCTATATGCTCATCCAAGCATACAAGTGTTCAAAGAAGAGCGTTACCTGTGTGATGCCCAGC
AGTGTGCTGACGTGATCTGGCAGTACGGGCTACTGAAGAAGGGCTACGGGCTGTGCCATGGTGTGCAAG
GAATGCCTACGCTTTCCTGGCACTCTAACCTCACACAGGATCTGAAGTATCTGTACAGGGCCTGCAAG
TTTGCTGAGTGGTCTTAGACTACGGGAGCACGGATGCAGGACAGCGGACACCCCTTCTCCCTTTTG
AAGGGATGGCTGGAACAATATATTTCTTGGCTGACCTGTTAGTCCCCACAAGGCCAAGTTCCTGCATT
TGAATC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206265 representing NM_021295
 Red=Cloning site Green=Tags(s)

MAQRAFPNPYADYNKSLAENYFDSTGRLTPEFSHRLTNKIRELLQQMERGLKSADPRDGTGYTGWAGIAV
 LYLHLHNVFGDPAYLQMAHSYVKQSLNCLSRRSITFLCGDAGPLAVAAYLYHKMNSEKQAEECITRLIHL
 NKIDPHVPNEMLYGRIGYIFALLFVNKNFGEEKIPQSHIQQICENILTSGENLSRKRNLAAKSPLMYEWY
 QEYYVGAHGLAGIYYLQPSLQVQNGKLHSLVKPSVDFVCRLLKFPVSGNYPPCLDDTRDLLVHWCHGAP
 GVIYMLIQAYKVFKEERYLCDAQQCADVIWQYGLLKKGYGLCHGAAGNAYAFLLALYNLTQDLKYLVRACK
 FAEWCLDYGEHGCRATDTPFSLFEGMAGTIYFLADLLVPTKAKFPAPFEL

TRTRPLE - GFP Tag - V

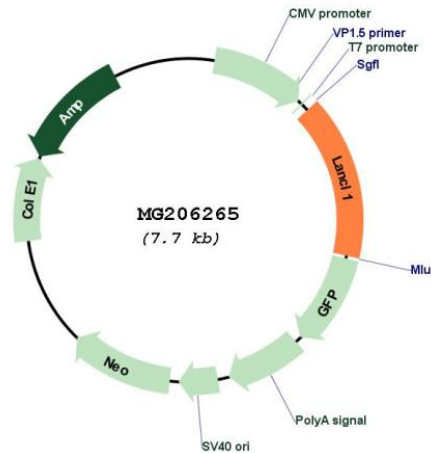
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_021295

ORF Size:	4274 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_021295.3 , NP_067270.1
RefSeq Size:	4270 bp
RefSeq ORF:	1200 bp
Locus ID:	14768
UniProt ID:	O89112
Cytogenetics:	1 C3
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]