

## Product datasheet for **MG225984**

### Lct (NM\_001081078) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lct (NM\_001081078) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Lct  
**Synonyms:** Gm100; LAC; LPH; Lphi  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225984 representing NM\_001081078  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTGCCTTGGACAGCACTCTTCTCAGTACCTTCTCCTGGGTCTTTCATGCCAGGGGAATGACT  
 GGGAACTGACAGAAATTTTATTTTCAGCTGCTGGTCTCTAACAATGACTTAGTGCACAATCTGAACCA  
 TCCGCTGGGAAAGCAGGGCTCTGATTTGGTAGCTGGTACTGACATCTATGTCTGCCAGCAGCCACTG  
 CCCTCCTTCTTGCCTCAGTACTTCAAGCAGTCTTCCGGCCAGCCAGGTTACCCATTACAAAGTACTTCTGT  
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 ACTCCTCCAGTCCCTGAAGGATGCCAGCTTCAAGCCATGGTGGTCTGTTCACCCAGATGCCACCTACC  
 AGCACCATCCAGAGAGACGGGGCTTTGCTGACCTCTTTGCTGATTATGCCACATTGGCTTTTCAGTCTCT  
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 GCATTTGAAAGCTTCTGGTCTCCAAACCCTCAGCGATGCCACAGGAAAGCCTTTGACGTTTACCACAGA  
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 AAGTATATCGACTCTACCACAGAAGCTGAGTGAATTCAGAACCTTGAGCCCAAAGTGAAGTTTTGCTC  
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GTGGAGCCCATGGCTACGCTGTTCCACTGGGACCTCCCCAGGCCCTGCAGGAGCAAGGCGGGTGGCAGA  
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 GTCACAGAGAATGGAGTGTCCCGACGAGGAGACCCAGAACTCAATGACACCGACAGGATCTACTACCTCC  
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 AGCAAGGGACAACACAGCCAGGCCACCACGGTCTGAGTCAAATTTCTTCCTTC

AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG225984 representing NM\_001081078  
 Red=Cloning site Green=Tags(s)

MELPWTALFLSTFLLGLSCQGNWESDRNFISAAGPLTNDLVHNLNHPLGKQGSDDL VAGDTDIYVCQQPL  
 PSFLPQYFSSLRASQVTHYKVL LSWAQLLPKGSSKNPDQEAVQCYRQLLQSLKDAQLQPMVVL F HQMPPT  
 STIQRDGGFADLFADYATLAFQSFGLVEIWF TFS DLEKVI MGLPHQHLKASGLQTLSDAHRKAFD VYHR  
 KYSSQGGKLSVVLKAEDLPKLLPDPSSAALVKGSVDFLSDDL SYDCQSISTLPQKLSLQNL EPKVKV FV  
 YTLKPQDCPSTGMSPASLLFRLLEAINKDQVQTVGFDVSAFLSCTSSSEESPSCSLTYSSLALQSEQQHE  
 TVVSSFPGSAYQRVWAALANQSREERDAFLQDV FPEGFLWGVSTGAFNVEGGWAEGRGPSIWDHYSNLN  
 AAESQATAKVASDSYHKPVSDVALLRGLRADVYKFSISWSRIFPFQRTSPNLQGVAYYKLLIDSL LDSQ  
 VEPMATLFHWDL PQALQEQQGWQNESVVD AFLDYAAF CFSTFGDRVKLWVTFHEPWVVISYAGYGTGQHAP  
 AISDPGVASFV AHLILKAHARTWHYNYHHRKQQRGVI VLNDSWAEP LDGKSPQDLAAAERYLHFML  
 GWF AHP I FIDGDYPAALRAIQHTNQCGRPLAQLPEFTEAEKRL LKGSADFLGLSHYTSRLISKAGQQT  
 CIPSYDNI GGF SQHVDPKWPQTASPWIRVVPWGIRRLRFASLEYTKGLPIFLAGNGMPIGEGSDLFDD  
 SMRVNLYNL YINEVLKAVKEDSDVRSYIARSLIDGYEGLGYSQRFL YHVNFNDSSRPRTPRKSAYFF  
 TSIIEKNGFPAKKVKRNPLPLKAD FSSRARA AF SFPSEVPSKAKV VWEKFSRQPKFERDLFYHGTFRDDF  
 LWGVSSAYQIEGGWDADGKGPSIWDNFTHTPGNVKNATGDIACDSYHQLDADINILRTLKVKSYRFS  
 ISWPRI FPTGRNSSINKQGV DYYNKLIDRLL ESNI FPMVTLFHWDL PQALQDIGGWNPSLIELFDSYAD  
 FCFKTFGDRVKFWMTFNEPWCSAVLGYSSGIFPPNVQDPGSLSYK VSHVI IKAHARVYHTYDEKYRQEQK  
 GVISLSLNTHWVEPKDPGVQRDVEAADRMLQFNLGWF AHP I FKNGDY PDMKWNVGNRSELQHLASSRLP  
 SFTEEEKNYIRGTADVFCINTYTSVFAQHVT PRLNPPSYDNDMELKASDMNSSALISMHQDVPWGMRRLL  
 LNWIKEEYGNIPYITENGQGLTNPTLDDTERIFYHKTYINEALKAYRLDGVDLRGYSAWALMDFEHLH  
 GYTMRFGLYHVD FDHVNRPRTARASARYYTEVITNNGMPLAKEDEFLYGEFPKGF IWSAASASYQVEGAW  
 RADGKGLSIWDTFSHTPLKIGNDDNGDVACDSYHKIAEDVVALQNLGVSHYRFSISWPRI L PDGTTKF IN  
 EAGLNYVYRFIDALLAAGITPQVTMYHWDLPQALQDVGGWENETVVQRFKDYADVLFRR LGDKVKFWITL  
 NEPFVIAAHGYGSGVSAPGISFRPGTAPYTAGHNL IKAHAEAWHLYNSTYRNSQGGVISITISSDWAEP  
 DPSNQEDVEAARYVYQFMGGWF AHP I FKNGDY PDMKTRIRDRSLAAGLNKSRLEPFESEK KKI QGTFD  
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 VTENGVSRRGPELNDTDRIYYLRSYINEALKAVRDKVDL RGYTVWSIMDNFEWATGFAERFGVHFVNRS  
 DPSSLPRIPKASAKVYASIVRCNGFPDPAQGPHPCLQQPEDAGPTASPVKSEVPFLGLMLGTAEAQALYV  
 L FALVLLGVCSVAFLLYKYCKRSKQGTTPGHGHSQISSF

SGPTRRRLE – GFP Tag – V

**Restriction Sites:**

Sgfl-RsrII



<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>	<u><a href="#">NM_001081078.2</a></u> , <u><a href="#">NP_001074547.1</a></u>
<b>RefSeq Size:</b>	6166 bp
<b>RefSeq ORF:</b>	5796 bp
<b>Locus ID:</b>	226413
<b>Cytogenetics:</b>	1 55.8 cM