

## Product datasheet for **MG220706**

### Luc7l3 (NM\_026313) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Luc7l3 (NM_026313) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Luc7l3
Synonyms:	3300001P08Rik; Luc7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220706 representing NM\_026313  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTCTGCCGCGAGTTGCTGGATGAGTTAATGGCCGGGACCGAAACCTCGCCCCGGATGAGAAGC  
 GCAGCAACGTGCGCTGGGACCACGAGAGCGTTTGTAAATATTATCTCTCGGGTTTTGTCTCGCGAATT  
 GTTCACAATACCCGTTCTGATCTTGGTCCATGTAAAAAATTCATGATGAAAATCTAAGAAAACAGTAT  
 GAGAAGAGTTCTCGCTTATGAAAGTTGGCTATGAGAGAGATTTTTTGGGATACTTACAGAGTTTACTTG  
 CCGAGGTAGAGCGCAGAATTAGACGAGGTCATGCTCGTTTGGCATTATCTCAAAATCAGCAGTCTTCTGG  
 GGCTGCTGGTCCAACAGGCAAAAATGAAGAAAAAATTCAGGTTCTGACAGACAAAATTGATGTGCTTCTA  
 CAGCAGATTGAAGAGTTAGGATCTGAAGGAAAGGTAGAAGAAGCCAGGGAATGATGAAATTGGTTGAAC  
 AGTTAAAGGAAGAGAGAGAATTACTAAGATCTACAACCTCGACTATAGAAAGTTTTGCTGCCAAGAAAA  
 ACAGATGGAAGTTGTGAAGTGTGTGGAGCCTTTTTGATAGTAGGAGACGCCAGTCCCAGTAGATGAC  
 CATCTGATGGGAAAGCAACACATGGGCTATGCCAAAATTAAGCCACTGTGGAAGAATTAAGAAAAAGT  
 TAAGAAAAAGAACAGAGGAACCTGATCGGGATGAACGCTCTCAAAAAAGAGAAGCAAGAAAGAGAGGAAAG  
 AGAAAAAGAGCGGGAGAGAGAAAGAGAAGAACGGGAAAGAAAAAGACGAAGAGAGAGAAAGAAAGGAA  
 AAAGAAAGAGCTCGTGACAGAGAAAGGAGAAAGAGAAGTCGTTCCAGGAGTAGACACTCAAGCCGAACCT  
 CTGACCGGAGATGCAGCAGGTCCTCGGGACCACAAAAGATCACGGAGTAGACAGAGAAGCCGAAAGCAGAAG  
 TAGAGATCGACGAAGAAGCAGAAGCCATGACAGATCAGAAAGAAAACATAGATCTCGCAGTCGGGATCGA  
 AGACGGTCAAAAAGCCGAGATCGAAAGTCAATAAGCACAGGAGCAAAAGTCGGGACAGAGAACAAAGATA  
 GAAAGTCCAAGGAGAAAGAAAAGGAGGATCTGATGATAAAAAGAGTAGTGTGAAGTCCAGTAGTCCGAGA  
 AAAGCAGAGTGAAGACACAAACCCTGAATCGAAGGAAAGTGACACTAAGAATGAGGTCAATGGGACAGT  
 GAAGACATTAATCTGAAGTGCAGCGTAAGTATGCACAGATGAAGATGGAGCTAAGCCGAGTAAGAGAC  
 ATCAAAAAGCCTCTTCTGAAGGAAAAGACAGTGTAGTCCTGCAAAAACATTTTGAAGTACATTGTTTTGTC  
 TCAGCTATTTTGTAGCAGACTTCGTGCCCCATTAGTGTGCCTCTTTGAAATTACTGTCCACGTATGTA  
 ATA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220706 representing NM\_026313  
 Red=Cloning site Green=Tags(s)

MISAAQLLDELMGRDRNLAPDEKRSNVRWDHESVCKYYLCGFPAELFTNTRSDLGPCEKIHDENLRKQY  
 EKSSRFMKVGYERDFRLYLQSLLAEVERRIRRGHARLALSQNQQSSGAAGPTGKNEEKIQVLTDKIDVLL  
 QQIEELGSEKVEEAQGMMLVEQLKEERELLRSTTSTIESFAAQEKQMEVCEVCGAFLIVGDAQSRVDD  
 HLMGKQHMGYAKIKATVEELKEKLRKTEEPDRDERLKKKEKQEREEREKERERERERERERERERERER  
 KERARDRERRKRSRSRSHSSRTSDRRCRSRDRHKRSRSDRRRSRSDRRRSRSHDRSERKHSRSDR  
 RRSKSRDRKSYKHSKSRDREQDRKSKEKEKKGSDDKSSVKSSSREKQSEDNPNESKESDTKNEVNGTS  
 EDIKSEVQRKYAQMELSRVRRHTKASSEKDSVVLQNILRYIVLSQLFCSRLRAPISVPLWKLSTYV  
 I

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



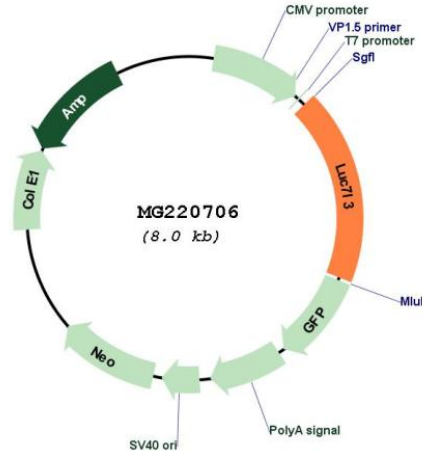
Restriction sites and amino acid sequence:

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag  
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---  
T R T R P L E M E S D - - -

PmeI FseI  
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
- - E E R V Stop

Plasmid Map:



ACCN: NM\_026313

ORF Size: 1473 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_026313.2</a>
<b>RefSeq Size:</b>	3327 bp
<b>RefSeq ORF:</b>	1476 bp
<b>Locus ID:</b>	67684
<b>UniProt ID:</b>	<a href="#">Q5SUF2</a>
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	Binds cAMP regulatory element DNA sequence. May play a role in RNA splicing (By similarity). [UniProtKB/Swiss-Prot Function]