

## Product datasheet for **MC218898**

### **Lgi2 (NM\_144945) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lgi2 (NM_144945) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lgi2
Synonyms:	mKIAA1916
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218898 representing NM\_144945  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCTATGGAGAGGGCGGGCGCTGGGGTTGCTGCTGCTGAGCGCCGCTGCCTCATCCCGCCGA  
 GCGCGCAGGTGAGGCGGTTGGCGCGCTGCCCGCCACTTGCAGCTGTACCAAGGAGTCCATCATCTGCGT  
 GGGCTCCTCTTGGGTGCCTAGGATCGTGCTGGCGACATCAGCTCCCTGAGCCTAGTAAATGGAACATTT  
 CTGAAATCAAGGACCGAATGTTTTCCACCTGCCCTCTCTGCAGCTGCTATTGCTGAATTTCTAACTCAT  
 TCACGGTGATCCGGGACGATGCCTTTGTGGCCTTTTTTCATCTTGAATACCTGTTTATTGAAGGGAACAA  
 AATAGAAACCATTTCAAGAAATGCCTTTTCGGGGCCTCCGTGACCTGACTCACCTAGACTTAAAGGGTAAT  
 AAATTTGAATGTGACTGCAAAGCCAAATGGCTGTATCTATGGCTGAAGATGACAACTCCACCGTCTCTG  
 ATGTGCTGTATCGGTCCACCAGAATACCAGGAGAAGAACTCAACGAAGTGACCAGCTTTGACTATGA  
 GTGTACCACCACAGGTCCCAGACTGATGAAGCCAAGCAGAGAGGATGGCAGTTGAACTCTCCCTGGGA  
 TTTTGTGAACTAATATTTGTTTTCAACACCCACTCTCAGATTTTGTCTGTCATCAGACTCTGCCGTACC  
 AGTCGGTGTGAGTACAGCTTCAACTCCAAGAACGATGTGTACGTGGCCATCGCTCAGCCCAGCATGGA  
 GAACTGCATGGTGTGGAGTGGGACCACATAGAAATGAATTTCCGGAGTTATGACAATATCACAGGCCAG  
 TCCATCGTGGGCTGCAAGGCCATCCTCATTGACGACCAGGTCTTTGTGGTGGTGGCCAGCTCTTCGGTG  
 GCTCTCACATTTACAAATACGACGAGAGCTGGACCAAGTTTGTCAAGTTCCAAGACATAGAGGTGTCTCG  
 GATTTCCAAGCCCAACGACATTTGAGCTGTTTCGAGATCGACGACGAGACCTTCTTCATCATCGCCGACAGC  
 TCCAAAGCGGGGCTGTCCACAGTTTACAAGTGGAAACAGCAAAGGGTTTTACTCTACCAGTCACTACATG  
 AGTGGTTCAGGGACACAGATGCGGAGTTTGTGACATCGACGGGAAGTCTCACCTCATCTGTCTAGCCG  
 CTCCCAGGTCCCACATCATCCTGCAGTGGAAATAAAGTTCCAAGAAGTTTGTCCCCATGGTGACATCCCC  
 AATATGGAGGATGTGCTGGCTGTGAAGACTTCCGGATGCAGAACACCCTCTACCTTTCCCTCACCCGTT  
 TCATTGGGACTCGCGGTCATGCGTTGGAACAGTAAGCAGTTTGTGGAGTCCAGGCTCTTCTTCCC  
 GGGGGCTATGACCTTGAACCCTTCTCCTTCAAAGATAACCACTACCTGGCCCTGGGGAGTGACTACAG  
 TTCTCACAGATCTACCAGTGGGATAAAGAGAAACAGCAGTTTAAAAAGTTTAAAGAAATCTATGTGCAGG  
 CGCCTCGTCTTACAGCCGTCTCCACCACAGGAGAGATTTCTTTTTGCATCCAGTTTCAAAGGGAA  
 GACAAAGATTTTTGAACATATCATTGTTGATTTAAGTTT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_144945
- Insert Size:** 1653 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_144945.3](#), [NP\\_659194.1](#)

**RefSeq Size:** 6315 bp

**RefSeq ORF:** 1653 bp

**Locus ID:** 246316

**UniProt ID:** [Q8K4Z0](#)

**Cytogenetics:** 5 C1

**Gene Summary:** Required for the development of soma-targeting inhibitory GABAergic synapses made by parvalbumin-positive basket cells.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encode the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.