

Product datasheet for **MG224432**

Lgi2 (NM_144945) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Lgi2 (NM_144945) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Lgi2 |
| Synonyms: | mKIAA1916 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG224432 representing NM_144945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCTATGGAGAGGCGGGCGCTGGGGTTGCTGCTGCTGAGCGCCGCTGCCTCATCCCGCGA
 GCGCGCAGGTGAGGCGGTTGGCGCGCTGCCCGCCACTTGCAGCTGTACCAAGGAGTCCATCATCTGCGT
 GGGCTCCTCTTGGGTGCCTAGGATCGTGCCTGGCGACATCAGCTCCCTGAGCCTAGTAAATGGAACATTT
 CTGAAATCAAGGACCGAATGTTTTCCACCTGCCCTCTCTGCAGCTGCTATTGCTGAATTTAACTCAT
 TCACGGTGATCCGGGACGATGCCTTTGTGGCCTTTTTTCATCTTGAATACCTGTTCAATGAAGGGAACAA
 AATAGAAACCATTTCAAGAAATGCCTTTTCGGGGCCTCCGTGACCTGACTCACCTAGACTTAAGGGTAAT
 AAATTTGAATGTGACTGCAAAGCCAAATGGCTGTATCTATGGCTGAAGATGACAACTCCACCGTCTCTG
 ATGTGCTGTATCGGTCCACCAGAATACCAGGAGAAGAACTCAACGAAGTGACCAGCTTTGACTATGA
 GTGTACCACCACAGGTCCCAGACTGATGAAGCCAAGCAGAGAGGATGGCAGTTGGAAGTCTCCCTGGGA
 TTTTGTGAACTAATATTTGTTTTCAACACCCACTCTCAGATTTTGTCTTCATCAGACTCTGCCGTACC
 AGTCGGTGTCACTAGACAGTTCAACTCCAAGAACGATGTGTACGTGGCCATCGCTCAGCCCAGCATGGA
 GAACTGCATGGTGTGGAGTGGGACCACATAGAAATGAATTTCCGGAGTTATGACAATATCACAGGCCAG
 TCCATCGTGGGCTGCAAGGCCATCCTCATTGACGACCAGGTCTTTGTGGTGGTGGCCAGCTCTTCGGTG
 GCTCTCACATTTACAAATACGACGAGAGCTGGACCAAGTTTGTCAAGTTCCAAGACATAGAGGTGTCTCG
 GATTTCCAAGCCCAACGACATTGAGCTGTTTCGAGATCGACGACGAGACCTTCTTCATCATCGCCGACAGC
 TCCAAAGCGGGCTGTCCACAGTTTACAAGTGGAAACAGCAAAGGGTTTTACTCTACCAGTCACTACATG
 AGTGGTTCAGGGACACAGATGCGGAGTTTGTGACATCGACGGGAAGTCTCACCTCATCTGTCTAGCCG
 CTCCCAGGTCCCACATCCTCTGCAGTGGAAATAAAGTTCCAAGAAGTTTGTCCCCATGGTGACATCCCC
 AATATGGAGGATGTGCTGGCTGTGAAGAGCTTCCGGATGCAGAACCCTCTACCTTTCCCTCACCCGTT
 TCATTGGGACTCGCGGTTCATGCGTTGGAACAGTAAGCAGTTTGTGGAGTCCAGGCTCTTCTTCCC
 GGGGGCTATGACCTTGAACCTTCTCCTTCAAAGATAACCACTACCTGGCCCTGGGGAGTGACTACAG
 TTCTCACAGATCTACCAGTGGGATAAAGAGAAACAGCAGTTTAAAAAGTTTAAAGAAATCTATGTGCAGG
 CGCCTCGTCTTACAGCCGTCTCCACCACAGGAGAGATTTCTTTTTGCATCCAGTTTCAAAGGGAA
 GACAAAGATTTTGAACATATCATTGTTGATTTAAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224432 representing NM_144945
 Red=Cloning site Green=Tags(s)

MALWRGGALGLLLLSAACLIPPSAQVRRRLARCPATCSCTKESIIICVGSWVPRIVPGDISSLVNGTF
 LEIKDRMFSHLPSLQLLLLNSNSFTVIRDDAFAGLFHLEYLFIEGNKIETISRNAFRGLRDLTHLDLRGN
 KFECDCAKWLYLWLKMTNSTVSDVLCIGPPEYQEKLNVTSTFDYECTTTGPQTDEAKQRGWQLELSLG
 FCELIFFVQHPLSDFVHQTLQPYQSVSDVTFNSKNDVYVAIAQPSMENCMLVLDHIEMNFRSYDNITGQ
 SIVGCKAILIDDQVFVVVAQLFGGSHIYKYDESWTKFVKFQDIEVSRISKPNDELFEIDDETFIIADS
 SKAGLSTVYKWNKGFYSYQSLHEWFRDTEAFVDIDGKSHLILSSRSQVPIILQWNKSSKFFVPHGDIP
 NMEDVLAVKSRMQNTLYLSLTRFIGDSRVMRWNSKQFVEVQALPSRGAMTLQPFQSKDNHYLALGSDYT
 FSQIYQWDKEKQFKKFKIYVQAPRSFTAVSTDRRDFFFASSFKGKTKIFEHIIVDLSL

TRTRPLE - GFP Tag - V

Restriction Sites:

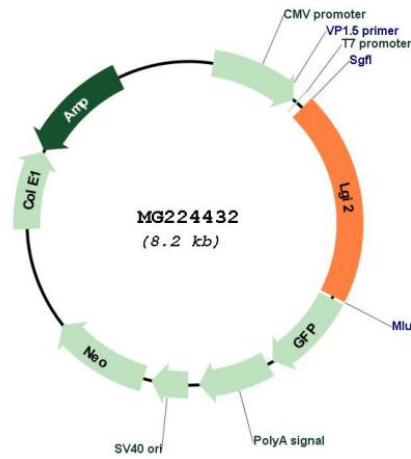
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_144945 |
| ORF Size: | 1650 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_144945.3 , NP_659194.1 |
| RefSeq Size: | 1927 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] |