

Product datasheet for **MG211478**

Llgl2 (NM_145438) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Llgl2 (NM_145438) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Llgl2
Synonyms:	9130006H11Rik; Llglh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211478 representing NM_145438 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCGGTTCTGAGAACTGGACATGACCCTGCCCGGAGAGGCTGAAGCGGGATCTGTTCCAGTTTA
ACAAGACAGTGGAGCATGGCTTCCACACCAGCCAGCGCCCTTGCTATAGCCCTTCGCTGCGCATCCT
GGCCATCGGAACCCGCTCTGGAGCTGTCAAGCTATATGGCGCCCCGGGGTAGAGTTCATGGCCTTCAC
AAGGAGAAACAACGCAGTGTGCAGATCCACTTCTGCCTGGTCACTGTCAGCTGGTCACTCTGCTGGATG
ACAATAGCCTGCACCTGTGGAGCCTGAAGGTCAAGGGCGGGTGTGAGAGCTGCAGGAAGAAGAGAGCTT
CACATTGCGTGGCCCCCAGGGGCTGCCCCAGTGCCACGAGGTCAGTGAATTCTACCTCACTCTTCC
GGAGAACTGCTCTACCTGGGCACCGAGAGCGGCAACGTGTTTGTGGTGCAGCTCCCGGGGTTCCGCACGC
TGCACGACAGGACCATCTGTTTCAGATGAGGTGCTGCAATGGTTGCCAGAGGAGGCTCGCCACCGCGGAGT
GTTTGAGATGGTGGAGGCTCTGCAGGAGCACCTCGAGACCCCAACAAATCCTCATTGGCTACAGCCGA
GGCCTCGTCGTCATCTGGGACCTTCAGGGCAGCCGAGCGCTCAGTCAATTCCTCAGCAGCCGCAACTGG
AGAATGCCAGTGGCAGCGGATGGCTGCCTGATTGTACCTGCCACTCCGACGGCAGCCACTGCCAGTG
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AAAGCTATAACGAAAATCTTCTGGCTCACCACCAGGCAAGGGTTGCCCTTACCATCTTCCAGGGCGGTA
TGCCACGGGCCAGCTATGGGGACCGCCACTGCATCTCAGTGGTCCACAACGGCCAGCAGACGGCCTTCGA
CTTCACCTCCCGTGTCTTACTTCACTGTTCTCTCAGAGGCTGACCCTGCGGCTGCCTTTGATGACCCC
TACGCCCTGGTGGTGTAGCCGAGGAGAACTGGTAGTCATTGACCTGCAGACACCCGGCTGGCCACCAG
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CGCAAGGTGGGCTCCTTTGATCCCTACAGCGATGATCCGCGGCTAGGCATCCAGAAGATTTCTCTGCA
 AATACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTCTGGAGTTGAACGATGAGGC
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 GTGATGGAGCACGCGCTGCTCAATGACGCTGGGTCTAAAGGAAATCCAGAGCACGCTGGAGGGGGACC
 GGAGGAGCTATGGCAATTGGCATCTCACCGCGTGGCTGTGGTTGCAGGCTCAGCAATGGAGAAGCAGA
 A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211478 representing NM_145438
 Red=Cloning site Green=Tags(s)

MRRFLRTGHPARERLRDLFQFNKTVEHGFPHQPSALGYSPSLRILAIIGTRSGAVKLYGAPGVEFMGLH
 KENNAVLQIHFLPGQCQLVTLDDNSLHLWSLKVKGVSSELQEEESFTLRGPPGAAPSATQVTEILPHSS
 GELLYLGTESGNVFFVQLPGFRTLHDRTICSDVLQWLPEEARHRRVFEMVEALQEHPDRPNQILIGYSR
 GLVVIWDLQGSRALSHFLSSQLENASWQRDGLIVTCHSDGSHCQWPVSSDTQNPPELRSSIPYGFPC
 KAITKIFWL TTRQGLPFTIFQGGMPRASYGDRHCISVVHNGQQTAFDFTSRVIDFTVLSEADPAAAFDDP
 YALVVLAEELVVIDLQTPGWPPVQLPYLASHCSAITCSHHVSNIPKLRWERIIAAGSRQNSHFSTMW
 PIDGGTSLAPPPQRDLTLGHEDGTVRFWDASGVCLRLLYKLSTVRVFLTDTPSENLI AQGEDEWPLL
 RKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTAGQVLVLELNDEAAEHAVEQVEADLLQDQEGYRWKG
 HERLAARPGPVCFEAGFPFVLVQCQPPAVVTSALHSEWRLVAFGTSHGFGLFDHQRRQVFKCTLHP
 SDQLALEGPLSRVKSLLKSLRQSFRRMRSRVSSHKRRPGGPTGEAQAQAVNIKAERTGLQNMELAPVQR
 KIEARSAEDSFTGFVRTLYFADTYLRDSSRHCPSLWAGTNGGTVYAFSLRVPPAERRTDEPVRAEQAKEI
 QLMHRAPVVGILVLDGHNVPLEPELEVAHDLKSPDMQGSQQLLVVSEEQFKVFTLPKVS AKLKLKLTAL
 EGSRRRVGVVAHFGSCRAEDYGEHHLAVLTNLGDIQVVSMPLLKPQVRYSCIRREDVSGIASCVF TKYGO
 GFYLI SPSEFERFSLSTKWLVEPRCLVDSTKAKKHNRPSNGNGTGLKMTSSGHVRNSKSQSDGDEKKPGP
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TRTRPLE - GFP Tag - V

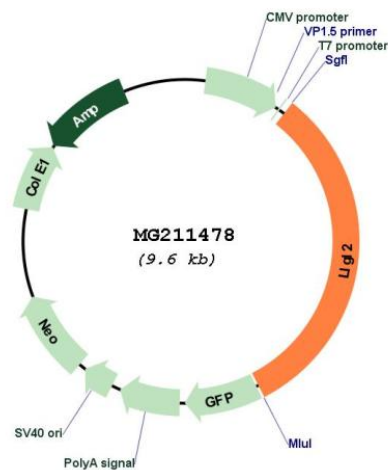
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145438

ORF Size: 3081 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_145438.2 , NP_663413.2
RefSeq Size:	3557 bp
RefSeq ORF:	3084 bp
Locus ID:	217325
UniProt ID:	Q3TJ91
Cytogenetics:	11 E2
Gene Summary:	Part of a complex with GPSM2/LGN, PRKCI/aPKC and PARD6B/Par-6, which may ensure the correct organization and orientation of bipolar spindles for normal cell division. This complex plays roles in the initial phase of the establishment of epithelial cell polarity (By similarity). [UniProtKB/Swiss-Prot Function]