

Product datasheet for **MG211565**

Llgl1 (BC055399) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Llgl1 (BC055399) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Llgl1
Synonyms:	Mgl1, Llglh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211565 representing BC055399 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAAGTTTCGGTCCGGCGGCAGGGCGCCGACCCGAGCGCGAGAAGCTTAAGCAGGAGCTCTTCG
CCTTCCACAAGACTGTGGAGCATGGCTTCCCAATCAGCCAGCGCCTTGGCCTTCGATCCTGAGCTCCG
CATCATGGCCATCGGCACCAGATCTGGGCGCTCAAGATCTATGGTGCACCCGGAGTGGAATTTACAGGC
CTACATCGGGACGACGCCACCGTACCCAGATGCATTTCTCCCTGGTGCAGGGCCGCTCCTGACCTGC
TAGATGACAGCAGCTTGCATCTCTGGGAGATCATCCATCATAATGGCTGCGCCACCTGGAGGAAGGCC
CAGCTTCCACCCACCCAGCAGACCCAGTTTTGACAATGCCAGTTTCCCTGCCAGTCTAACAGGTGCTACT
GTGGTCTGCTCGTAGCTGGCAATACAGCAGCCCTGGAACTGAGAGTGGTAGCATATTCTTCTGGATG
TAGCCACCCTGGCACTGTGGAGGGCAGACTCTCAGCCAGATGTGGTTCTGCGCAGTGTGCCAGATGA
TTACCGGTGTGGAAAGGCCTTGGGCCCTGTGGAGTCACTCCAGGGACATCTGCAAGACCCAGCAAGATC
CTCATAGGCTACAGTCCGGGTTTACTGGTCACTGGAGCCAGGCCACACAGTCTGTGGACAACGTTTTCC
TAGGTAACCAGCAGCTGGAGAGCCTGTGTTGGGGCCGTGATGGCAGCAGCATTATCAGCTCACACAGTGA
TGGCAGCTATGCCATCTGGTCCACAGACTGGCAGCCCCCAACGCTGCAGCCCACTGTAGTGACCACA
CCCTACGGCCCCCTCCCTGCAAGGCCATCAACAAGATTCTGTGGCGGAGCTGTGAGTCAGGAGACCCT
TTATCATCTTCAGTGGTGGCATGCCTCGAGCCAGCTATGGTGACCGCCACTGTGTGAGTGTACTGCGAGC
AGAGACTGTTGACCTGGACTTCACCTCTCGTGTGATTGACTTCTTACGGTGCACAGCACACAGCCA
GAGGATGAGTGTGACAACCCCGAGCCTTAGCCGTGCTTCTGGAGGAGGAGCTGGTGGTGTGGACCTGC
AGACACCAGGCTGGCCAGCTGTGCCCGCCCTTACCTGGCCCACTGCATTGTCAGCTATCACCTGCTC
TGCCCATGTTGCCAATGTCCCAGCAAGCTGTGGGCCGATTGTAAGTGTGGTGGAGCAGCAGAGCCCA
CAGCTGCCTCCAGTGCCTTGGTTGGCCATTACCGGGGCGGAACTTGGCCAGGAACCCTCGCAGC
GTGGGCTGCTGCTCACTGGCCATGAGGATGGCACTGTGCGGTTCTGGGACGCTCTGGTGTGGCGCTAAG
GCCACTTACAACTGAGCACAGCTGGCCTCTCCAGACGGACTGTGAACATGCTGACAGCTGGCCAG



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GCTGTGGAGGATGACTGGCCGCCCTCCGCAAGGTGGGCTGCTTTGATCCCTACAGTGATGACCCCCGGC
TAGGAATCCAGAAGGTTGCGCTTTGCAAGTACACAGCCAGATGGTGGTAGCTGGCACTGCAGGCCAGGT
GCTGGTGTGGAGCTCAGTGAGGTCCCAGCAGAGCATGCCGTAGTGTGGCCAACGTGGATCTTCTTCAG
GATCGCGAGGGCTTACGTGGAAGGGTACAGAGCGGTGAACCCACACACGGGGCTGCTGCCGTGGCCTG
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TGAGTGGAGCCTCGTGGCCTTTGGTACCAGTATGGCTTTGGCCTTTTACTACCAGCGCAAGAGCCCT
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GCCTCTACTTTGCTGACACGTTCTTCGAGATGCGACCCACCACGGGCCACCATGTGGCGGGCACCAA
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CAGGCAGTGGAGCGGTGCTGGCAAGGAGGTGCAGCTAATGCACCGAGCACCTGTGGTGGCCATTGCTG
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CGTCTTCTCGGTGCTGGCTGAGGCTCAGGTGCACTACTCCTGTATCCGGAAGGAGGACATCAGTGGC
ATCGCTTCTGTGCTTTCACACGTACAGGCCAGGGCTTTACTTGATTTCTCCATCGGAATTTGAGCGCT
TCTCACTGAGTGTGCGAACATCAGAACCTATGTTCTCTGGATATAAGCTGGCCCCAAAATGCCAC
CCAGCCCAGGCTTCAAGAGTACCCAAGCTGAGCCAGGCTAATGGGACCAGAGACATCATTCTGGCCCCA
GAGAGCTGCGAAGGAAGCCCTAGCTCTGCCACAGCAAGCAGCTGATACCATGGAACACCCGAGGCCG
CTCTCTCGCTGTGTCATTGATTCAGTGTAGTGGGATACCATGCTGGACACAACAGGGGATGTCAC
CGTGGAATATGTGAAGGATTTCTGGGCTCTCCTGAGGACTCTGAGAAGAACCTGCGGAACCTGGAGGCA
GATGATGCTTGTGGCCCTACACCTTCTGATTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211565 representing BC055399

Red=Cloning site Green=Tags(s)

MMKFRFRRQGADPQREKLKQELFAFHKTVEHGFNPQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTG
LHRDAATVTQMHFLPGQGRLLTLLDDSSLHLWEIIHNGCAHLEEGLSFHPPSRPSFDNASFPASLTRVT
VVLLVAGNTAALGTESGSIFFLDVATLALLEGQTLSPDVVLRVSPDDYRCGKALGPVESLQGHLDQPSKI
LIGYSRGLLVIWSQATQSVDNVFLGNQQLLESLCWGRDSSIISSHSDGSYAIWSTDTGSPPTLQPTVVTT
PYGPFCKAINKILWRSCESGDHFIIFSGMPPRASYGDRHCVSVLRAETLVTLDFTSRVIDFFTVHSTQP
EDECNDPQALAVLLEELVVLDLQTPGWPAPVAPYLAPLHSSAITCSAHVANVPSKLWARIVSAGEQQSP
QPASSALSWPITGGRNLAQEPSQRGLLLTGHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQ
AVEDDWPFRKVGCFDPYSDDPRLGIQKVALCKYTAQMVVAGTAGQVLVLELSEVPAEHAVSVANVDLLQ
DREGFTWKGHERLNPHTGLLPWPAGFQPRMLIQCLPPAAVTAVTLHAEWSLVAFGTSHGFLFDYQRKSP
VLARCTLHPNDSLAMEGPLSRVKSLLKSLRQSFRRIRKSRVSGKKRTPAASSKLQEANAQLAEQTCPHDL
EMTPVQRRIEPRSADDSLSGVVRLYFADTFLRDATHHGPTMWAGTNSGSVFAYALEVPAATAGGEKRPE
QAVEAVLGKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLIASEEQFKVFTLPKV
SAKTKFKLTAHEGCRVRKVALATFASVMSDYAETCLAELTNLGDVHVFVSVPLRPQVHYSIRKEDISG
IASCVFTRHGQGFYLI SPSEFERFSLSARNITEPLCSLDISWPQNATQPRLQESPKLSQANGTRDIILAP
ESCEGSPSSAHSKRADTMEPPEAALSPVSDSAASGDTMLDITGDVTVVEYVKDFLGPEDSEKLNRLNEA
DDACRAYTLLIK

TRTRPLE – GFP Tag – V

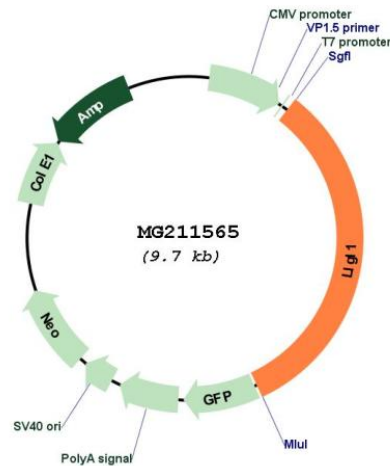
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC055399

ORF Size: 3188 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:	<u>BC055399</u> , <u>AAH55399</u>
RefSeq Size:	4320 bp
RefSeq ORF:	3188 bp
Locus ID:	16897
Cytogenetics:	11 37.81 cM
Gene Summary:	Cortical cytoskeleton protein found in a complex involved in maintaining cell polarity and epithelial integrity. Involved in the regulation of mitotic spindle orientation, proliferation, differentiation and tissue organization of neuroepithelial cells. Involved in axonogenesis through RAB10 activation thereby regulating vesicular membrane trafficking toward the axonal plasma membrane.[UniProtKB/Swiss-Prot Function]