

## Product datasheet for **MG216634**

### Llgl1 (NM\_008502) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Llgl1 (NM_008502) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Llgl1
Synonyms:	A1325176; Lgl1; Llglh; Mgl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216634 representing NM_008502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGAAGTTTCGGTCCGGCGGCAGGGCGCCGACCCGAGCGCGAGAAGCTTAAGCAGGAGCTCTTCG  
CCTTCCACAAGACTGTGGAGCATGGCTTCCCAATCAGCCAGCGCCTTGGCCTTCGATCCTGAGCTCCG  
CATCATGGCCATCGCCACCAGATCTGGGCGGTCAAGATCTATGGTGCACCCGGAGTGGAATTTACAGGC  
CTACATCGGGACGACCCACCGTACCCAGATGCATTTCTCCCTGGTGCAGGGCCGCTCCTGACCCTGC  
TAGATGACAGCAGCTTGCATCTCTGGGAGATCATCCATCATAATGGCTGCGCCACCTGGAGGAAGGCCCT  
CAGCTTCCACCCACCCAGCAGACCCAGTTTTGACAATGCCAGTTTCCCTGCCAGTCTAACAGGTGTCACT  
GTGGTCTGCTCGTAGCTGGCAATACAGCAGCCCTGGAACTGAGAGTGGTAGCATATTCTTCTGGATG  
TAGCCACCCTGGCACTGTGGAGGGCAGACTCTCAGCCAGATGTGGTTCTGCGCAGTGTGCCAGATGA  
TTACCGGTGTGGAAAGGCCTTGGGCCCTGTGGAGTCACTCCAGGGACATCTGCAAGACCCAGCAAGATC  
CTCATAGGCTACAGTCCGGGTTTACTGGTATCTGGAGCCAGGCCACACAGTCTGTGGACAACGTTTTCC  
TAGGTAACCAGCAGCTGGAGAGCCTGTGTTGGGGCCGTGATGGCAGCAGCATTATCAGCTCACACAGTGA  
TGGCAGCTATGCCATCTGGTCCACAGACTGGCAGCCCCCAACGCTGCAGCCCACTGTAGTGACCACA  
CCCTACGGCCCCCTCCCTGCAAGGCCATCAACAAGATTCTGTGGCGGAGCTGTGAGTCAGGAGACCCT  
TTATCATCTTCAGTGGTGGCATGCCTCGAGCCAGCTATGGTGACCGCCACTGTGTGAGTGTACTGCGAGC  
AGAGACTGTTGACCCTGGACTTCACCTCTCGTGCATTGACTTCTTACGGTGCACAGCACACAGCCA  
GAGGATGAGTGTGACAACCCCGAGCCTTAGCCGTGCTTCTGGAGGAGGAGCTGGTGGTGTGGACCTGC  
AGACACCAGGCTGGCCAGCTGTGCCCGCCCTTACCTGGCCCACTGCATTGTCAGCTATCACCTGCTC  
TGCCCATGTTGCCAATGTCCCAGCAAGCTGTGGGCCGATTGTAAGTGTGGTGGAGCAGCAGAGCCCA  
CAGCTGCCTCCAGTGCCTTGGTTGGCCATTACCGGGGCCGAACTTGGCCAGGAACCCTCGCAGC  
GTGGGCTGCTGCTCACTGGCCATGAGGATGGCACTGTGCGTTCTGGGACGCTCTGGTGTGGCGCTAAG  
GCCACTACAACTGAGCACAGCTGGCCTCTCCAGACGGACTGTGAACATGCTGACAGCTGGCCAG



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GCTGTGGAGGATGACTGGCCGCCCTCCGCAAGGTGGGCTGCTTTGATCCCTACAGTGATGACCCCCGGC  
 TAGGAATCCAGAAGGTTGCGCTTTGCAAGTACACAGCCAGATGGTGGTAGCTGGCACTGCAGGCCAGGT  
 GCTGGTGTGGAGCTCAGTGAGGTCCCAGCAGAGCATGCCGTAGTGTGGCCAACGTGGATCTTCTTCAG  
 GATCGCGAGGGCTTACGTGGAAGGGTACAGAGCGGTGAACCCACACACGGGGCTGCTGCCGTGGCCTG  
 CCGGATTCAGCCCCGATGTGATACAGTGCCTCCACCCGCGCTGCACTGCTGTACACTCCATGC  
 TGAGTGGAGCCTCGTGGCCTTTGGTACCAGTATGGCTTTGGCCTTTTACTACCAGCGCAAGAGCCCT  
 TGCTGGCTAGGTGCACCTTACCCCAATGATTCTTTGGCCATGGAGGGGCCACTGTACGGGTGAAGT  
 CCCTCAAGAAGTCACTGAGACAGTCATTCGGCGAATCCGCAAGAGCCGTGTCTCAGGCAAAAACGGAC  
 TCCTGCTGCCAGTAGCAAGTTGCAGGAGGCCAATGCCAGCTGGCCGAGCAGACCTGCCACACGACCTG  
 GAGATGACACCCGTGCAGCGCCGATTGAGCCTCGGTCTGCTGACGACTCGCTCTCCGGTGTGTACGCT  
 GCCTCTACTTTGCTGACACGTTCTTCGAGATGCGACCCACCACGGGCCACCATGTGGCGGGCACCAA  
 CTCGGGCTCTGTGTTGCGCTATGCGCTGGAGGTTCCAGCAGCCACAGCAGGCGGAGAGAAGCGCCTGAG  
 CAGGCAGTGGAGCGGTGCTGGCAAGGAGGTGCAGCTAATGCACCGAGCACCTGTGGTGGCCATTGCTG  
 TGCTGGATGGTCTGGCCGGCCACTGCCTGAGCCCTATGAGGCTTCCCGGACCTGGCCAGGCGCCAGA  
 CATGCAAGGCGGCATGTGTGCTCATTGCATCTGAGGAACAATCAAGGTGTTCACTACCAAGGTG  
 AGTGCTAAGACTAAATCAAGCTTACAGCCATGAAGGCTGTCGTGTGCGGAAGGTAGCCCTGGCTACAT  
 TTGCCAGCGTGATGTCTGAGGACTATGCCGAGACCTGCCTTGCCTGCCTACCAACCTGGGTGATGTCCA  
 CGTCTTCTCGGTGCTGGCCTGAGGCCTCAGGTGCACTACTCCTGTATCCGGAAGGAGGACATCAGTGGC  
 ATCGCTTCTGTGCTTTCACACGTACAGGCCAGGGCTTTACTTGATTTCTCCATCGGAATTTGAGCGCT  
 TCTCACTGAGTGTGCGAACATCAGAACCACTATGTTCTCTGGATATAAGCTGGCCCCAAAATGCCAC  
 CCAGCCCAGGCTTCAAGAGTACCCAAGCTGAGCCAGGCTAATGGGACCAGAGACATCATTCTGGCCCCA  
 GAGAGCTGCGAAGGAAGCCCTAGCTCTGCCACAGCAAGCAGCTGATACCATGGAACACCCGAGGCCG  
 CTCTCTCGCCTGTGCCATTGATTCAGTGTCTAGTGGGATACCATGCTGGACACAACAGGGGATGTCAC  
 CGTGAATATGTGAAGGATTTCTGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216634 representing NM\_008502  
 Red=Cloning site Green=Tags(s)

MMKFRFRQGADPQREKLKQELFAFHKTVEHGFNPQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTG  
 LHRDAATVTQMHLPGQGRLTLLDDSSLHLWEIHHNGCAHLEEGLSFHPPSRPFDNASFPASLTRVT  
 VVLLVAGNTAALGTESGSIFFLDVATLALLEGQTLSPDVVLRVSPDDYRCGKALGPVESLQGHLDQPSKI  
 LIGYSRGLLVIWSQATQSVDNVFLGNQQLLESLCWGRDGSIISSHSDGSYAIWSTDTGSPPTLQPTVVTT  
 PYGPFCKAINKILWRSCESGDHFIIFSGMPPRASVYDRHCVSVLRAETLVTLDFTSRVIDFFTVHSTQP  
 EDECDNPQALAVLLEELVVLDLQTPGWPAPVAPYLAPLHSSAITCSAHVANVPSKLWARIVSAGEQQSP  
 QPASSALSWPITGGRNLAQEPSQRGLLTLGHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQ  
 AVEDDWPFRKVGCFDPYSDDPRLGIQKVALCKYTAQMVVAGTAGQVLVLELSEVPAEHAVSVANVDLLQ  
 DREGFTWKGHERLNPHTGLLPWPAGFQPRMLIQCLPPAAVTAVTLHAEWSLVAFGTSHGFLFDYQRKSP  
 VLARCTLHPNDSLAMEGPLSRVSLKSLRQSFRRIRKSRVSGKKRTPAASSKLQEAANAQLAETCPHDL  
 EMTVPVQRRIEPRSADDSLSGVVRCLYFADTFLRDATHHGPTMWAGTNSGSVFAYALEVPAATAGGEKRPE  
 QAVEAVLKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLIASEEQFKVFTLPKV  
 SAKTKFKLTAHEGCRVRKVALATFASVMSDYAETCLAELTNLGDVHVFSVPLRQVHYSCIRKEDISG  
 IASCVFTRHGQGFYLIISPSEFERFSLSARNITEPLCSLDISWPQATQPRLOQESPKLSQANGTRDII LAP  
 ESCGSPSSAHSKRADTMPEPEAALSPVSDSAASGDTMLDITGDVTVVEYVKDFLG

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<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_008502.2</a> , <a href="#">NP_032528.1</a>
<b>RefSeq Size:</b>	4419 bp
<b>RefSeq ORF:</b>	3105 bp
<b>Locus ID:</b>	16897
<b>UniProt ID:</b>	<a href="#">Q80Y17</a>
<b>Cytogenetics:</b>	11 37.81 cM
<b>Gene Summary:</b>	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]