

## Product datasheet for MR216634

### Llg1 (NM\_008502) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Llg1 (NM\_008502) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Llg1  
 Synonyms: AI325176; Lgl1; Lglh; Mgl1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >MR216634 representing NM\_008502  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGATGAAGTTTCGGTTCGGCGGCAGGGCGCCGACCCGACGCGGAGAAGCTTAAGCAGGAGCTCTTCG  
 CCTTCCACAAGACTGTGGAGCATGGCTTCCCAATCAGCCAGCGCCTTGGCCTTCGATCCTGAGCTCCG  
 CATCATGGCCATCGGCACCAGATCTGGGGCCGTCAAGATCTATGGTGCACCCGGAGTGGAATTTACAGGC  
 CTACATCGGGACGCAGCCACCGTCACCCAGATGCATTTCCCTCCCTGGTACGGGCGCCCTCCTGACCTGC  
 TAGATGACAGCAGCTTGATCTCTGGGAGATCATCCATCATAATGGCTGCGCCACCTGGAGGAAGGCCCT  
 CAGCTTCCACCCACCCAGCAGACCCAGTTTTGACAATGCCAGTTTCCCTGCCAGTCTAACACGTGTCACT  
 GTGGTCTGCTCGTAGCTGGCAATACAGCAGCCCTGGAACTGAGAGTGGTAGCATATTCTTCTGGATG  
 TAGCCACCCTGGCACTGCTGGAGGGCAGACTCTCAGCCAGATGTGGTCTGCGCAGTGTGCCAGATGA  
 TTACCGGTGTGAAAGGCCTTGGGCCCTGTGGAGTCACTCCAGGGACATCTGCAAGACCCAGCAAGATC  
 CTCATAGGCTACAGTCGGGGTTACTGGTCACTGGAGCCAGGCCACACAGTCTGTGGACAACGTTTTCC  
 TAGGTAACCAGCAGCTGGAGAGCCTGTGTGGGCGGTGATGGCAGCAGCATTATCAGTCCACACAGTGA  
 TGGCAGCTATGCCATCTGGTCCACAGACACTGGCAGCCCCAACGCTGCAGCCACTGTAGTGACCACA  
 CCTACGGCCCTTCCCTGCAAGGCCATCAACAAGATTCTGTGGCGGAGCTGTGAGTCAGGAGACCACT  
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 GAGGATGAGTGTGACAACCCCGAGCCTTAGCCGTGCTTCTGGAGGAGGAGCTGGTGGTGTGGACCTGC  
 AGACACCAGGCTGGCCAGCTGTGCCCGCCCTTACCTGGCCCACTGCATTGCTCAGCTATCACCTGCTC  
 TGCCCATGTTGCAATGTCCCAGCAAGCTGTGGGCCCGCATTGTAAGTGTGGTGGAGCAGCAGAGCCCA  
 CAGCCTGCCTCCAGTGCCTTGAGTTGGCCATTACCGGGGCGGAACTTGGCCAGGAACCTCGCAGC  
 GTGGGCTGCTGCTCACTGGCCATGAGGATGGCACTGTGCGGTTCTGGGACGCCTCTGGTGTGGCGCTAAG  
 GCCACTTACAACTGAGCACAGCTGGCCCTTCCAGACGGACTGTGAACATGCTGACAGCCTGGCCAG  
 GCTGTGGAGGATGACTGGCCGCCCTTCCGAAGGTGGGCTGCTTTGATCCCTACAGTGTGACCCCGGC



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TAGGAATCCAGAAGGTTGCGCTTTGCAAGTACACAGCCCAGATGGTGGTAGCTGGCACTGCAGGCCAGGT  
 GCTGGTGTGGAGCTCAGTGAGGTCCCAGCAGAGCATGCCGTAGTGTGGCCAACGTGGATCTTCTTCAG  
 GATCGCGAGGGCTTACGTGGAAGGGTACAGAGCGGTGAACCCACACACGGGGCTGCTGCCGTGGCCTG  
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 TGAGTGGAGCCTCGTGGCCTTTGGTACCAGTATGGCTTTGGCCTTTTACTACCAGCGCAAGAGCCCT  
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 CCCTCAAGAAGTCACTGAGACAGTCATTCCGGGAATCCGCAAGAGCCGTGTCTCAGGCAAAAAACGGAC  
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 TTGCCAGCGTGTCTGAGGACTATGCCGAGACCTGCCTTGCCTGCCTACCAACTGGGTGATGTCCA  
 CGTCTTCTCGGTGCCTGGCCTGAGGCCTCAGGTGCACTACTCCTGTATCCGGAAGGAGGACATCAGTGGC  
 ATCGCTTCTGTGCTTTCACACGTACAGGCCAGGGCTTTTACTTGATTTCTCCATCGGAATTTGAGCGCT  
 TCTCACTGAGTGTGCGAACATCACAGAACCCTATGTTCTCTGGATATAAGCTGGCCCCAAAATGCCAC  
 CCAGCCCAGGCTTCAAGAGTCAACCAAGCTGAGCCAGGCTAATGGGACCAGAGACATCATTCTGGCCCCA  
 GAGAGCTGCGAAGGAAGCCCTAGCTCTGCCACAGCAAGCAGCTGATACCATGGAACCCCGAGGCCG  
 CTCTCTCGCCTGTGTCCATTGATTCAGTGTAGTGGGATACCATGCTGGACACAACAGGGGATGTCAC  
 CGTGAATATGTGAAGGATTTTCTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216634 representing NM\_008502  
 Red=Cloning site Green=Tags(s)

MMKFRFRRQGADPQREKLKQELFAFHKTVEHGFNPQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTG  
 LHRDAATVTQMFLPGQGRLLTLLDDSSLHLWEIHHNGCAHLEEGLSFHPPSRPFDNASFPASLTRVT  
 VVLLVAGNTAALGTESGSIFFLDVATLALLEGQTLSPDVVLRVSPDDYRCGKALGPVESLQGHLDQPSKI  
 LIGYSRGLLVIWSQATQSVDNVFLGNQQLLESLCWGRDGSIISSHSDGSYAIWSTDTGSPPTLQPTVVTT  
 PYGPFPCAKINKILWRSCESGDHFIIFSGMPPRASVYDRHCVSVLRAETLVTLDFTSRVIDFFTVHSTQP  
 EDECDNPQALAVLLEELVVLDLQTPGWPAPYLAAPLHSSAITCSAHVANVPSKLWARIVSAGEQQSP  
 QPASSALSWPITGGRNLAQEPSQRGLLLTGHEGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQ  
 AVEDDWPFRKVGCFDPYSDDPRLGIQKVALCKYTAQMVVAGTAGQVLVLELSEVPAEHAVSVANVDLLQ  
 DREGFTWKGHERLNPHTGLLPWPAGFQPRMLIQCLPPAAVTAVTLHAEWSLVAFGTSHGFLFDYQRKSP  
 VLARCTLHPNDSLAMEGPLSRVKSLLKSLRQSFRRIRKSRVSGKKRTPAASSKLQEAANAQLAETCPHDL  
 EMTVPVQRRIEPRSADDSLSGVVRCLYFADTFLRDATHHGPTMWAGTNSGSVFAYALEVPAATAGGEKRPE  
 QAVEAVLKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLIASEEQFKVFTLPKV  
 SAKTKFKLTAHEGCRVRKVALATFASVMSDYAETCLAELTNLGDVHVFSVPLRQVHYSCIRKEDISG  
 IASCVFTRHGQGFYLIISPSEFERFSLSARNITEPLCSLDISWPQATQPRLOQESPKLSQANGTRDIILAP  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

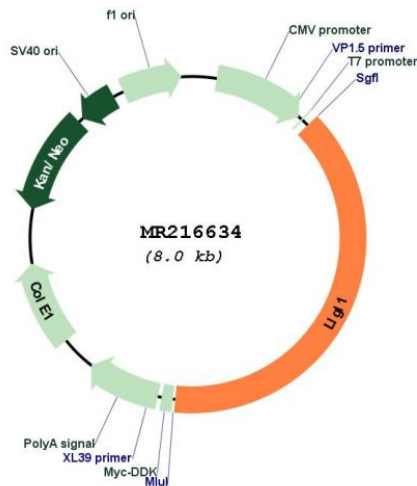
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_008502

ORF Size:

3102 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](#)

<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>	<u><a href="#">NM_008502.1</a></u> , <u><a href="#">NM_008502.2</a></u> , <u><a href="#">NP_032528.1</a></u>
<b>RefSeq Size:</b>	4419 bp
<b>RefSeq ORF:</b>	3105 bp
<b>Locus ID:</b>	16897
<b>UniProt ID:</b>	<u><a href="#">Q80Y17</a></u>
<b>Cytogenetics:</b>	11 37.81 cM
<b>MW:</b>	112.8 kDa
<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]