

Product datasheet for MR211492

Llg1 (NM_001159404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Llg1 (NM_001159404) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Llg1
Synonyms: AI325176; Lgl1; Lglh; Mgl1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211492 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGAAGTTTCGGTCCGGCGGCAGGGCGCCGACCCGAGCGCGAGAAGCTTAAGCAGGAGCTTTCG
 CCTTCCACAAGACTGTGGAGCATGGCTTCCCAATCAGCCAGCGCCTTGGCCTTCGATCCTGAGCTCCG
 CATCATGGCCATCGGCACCAGATCTGGGCGGTCAAGATCTATGGTGCACCCGGAGTGGAATTTACAGGC
 CTACATCGGGACGCAGCCACCGTCACCCAGATGCATTTCTCCCTGGTGCAGGGCCGCTCCTGACCCTGC
 TAGATGACAGCAGCTTGCATCTCTGGGAGATCATCCATCATAATGGCTGCGCCACCTGGAGGAAGGCCCT
 CAGCTTCCACCCACCCAGCAGACCCAGTTTTGACAATGCCAGTTTCCCTGCCAGTCTAACAGGTGCACT
 GTGGTCTGCTCGTAGCTGGCAATACAGCAGCCCTGGAACTGAGAGTGGTAGCATATTCTTCTGGATG
 TAGCCACCCTGGCACTGTGGAGGGCAGACTCTCAGCCAGATGTGGTTCTGCGCAGTGTGCCAGATGA
 TTACCGGTGTGGAAAGGCCTTGGGCCCTGTGGAGTCACTCCAGGGACATCTGCAAGACCCAGCAAGATC
 CTCATAGGCTACAGTCGGGGTTTACTGGTCACTGGAGCCAGGCCACACAGTCTGTGGACAACGTTTTCC
 TAGGTAACCAGCAGCTGGAGAGCCTGTGTTGGGGCCGTGATGGCAGCAGCATTATCAGCTCACACAGTGA
 TGGCAGCTATGCCATCTGGTCCACAGACTGGCAGCCCCCAACGCTGCAGCCCACTGTAGTGACCACA
 CCCTACGGCCCCCTCCCTGCAAGGCCATCAACAAGATTCTGTGGCGGAGCTGTGAGTCAGGAGACCCT
 TTATCATCTTCAGTGGTGGCATGCCTCGAGCCAGCTATGGTGACCGCCACTGTGTGAGTGTACTGCGAGC
 AGAGACTGTTGACCTGGACTTACCTCTCGTGTGATTGACTTCTTACGGGTGCACAGCACACAGCCA
 GAGGATGAGTGTGACAACCCCGAGCCTTAGCCGTGCTTCTGGAGGAGGAGCTGGTGGTGTGGACCTGC
 AGACACCAGGCTGGCCAGCTGTGCCCGCCCTTACCTGGCCCACTGCATTGTCAGCTATCACCTGCTC
 TGCCCATGTTGCCAATGTCCCAGCAAGCTGTGGGCCGATTGTAAGTGTGGTGGAGCAGCAGAGCCCA
 CAGCTGCCTCCAGTGCCTTGGTTGGCCATTACCGGGGCCGAACTTGGCCAGGAACCTCGCAGC
 GTGGGCTGCTGCTCACTGGCCATGAGGATGGCACTGTGCGGTTCTGGGACGCTCTGGTGTGGCGCTAAG
 GCCACTTACAACTGAGCACAGCTGGCCTTCCAGACGGACTGTGAACATGCTGACAGCTGGCCAG



[View online >](#)

GCTGTGGAGGATGACTGGCCGCCCTCCGCAAGGTGGGCTGCTTTGATCCCTACAGTGATGACCCCCGGC
 TAGGAATCCAGAAGGTTGCGCTTTGCAAGTACACAGCCAGATGGTGGTAGCTGGCACTGCAGGCCAGGT
 GCTGGTGTGGAGCTCAGTGAGGTCCCAGCAGAGCATGCCGTAGTGTGGCCAACGTGGATCTTCTTCAG
 GATCGCGAGGGCTTACGTGGAAGGGTACAGAGCGGTGAACCCACACACGGGGCTGCTGCCGTGGCCTG
 CCGGATTCAGCCCCGATGTGATACAGTGCCTCCACCCGCGCTGCTACTGCTGTACACTCCATGC
 TGAGTGGAGCCTCGTGGCCTTTGGTACCAGTATGGCTTTGGCCTTTTACTACCAGCGCAAGAGCCCT
 GTGCTGGCTAGGTGCACCTTACCCCAATGATTCTTTGGCCATGGAGGGGCCACTGTCACGGGTGAAGT
 CCTCAAGAAGTCACTGAGACAGTCATTCGGCGAATCCGCAAGAGCCGTGTCTCAGGCAAAAAACGGAC
 TCCTGCTGCCAGTAGCAAGTTGCAGGAGGCCAATGCCAGCTGGCCGAGCAGACCTGCCACACGACCTG
 GAGATGACACCCGTGCAGCGCCGATTGAGCCTCGGTCTGCTGACGACTCGCTCTCCGGTGTGTACGCT
 GCCTCTACTTTGCTGACACGTTCTTCGAGATGCGACCCACCACGGGCCACCATGTGGCGGGCACCAA
 CTCGGGCTCTGTGTTGCGCTATGCGCTGGAGTTCCAGCAGCCACAGCAGGCGGAGAGAAGCGCCCTGAG
 CAGGCAGTGGAGCGGTGCTGGCAAGGAGGTGCAGCTAATGCACCGAGCACCTGTGGTGGCCATTGCTG
 TGCTGGATGGTCTGGCCGGCCACTGCCTGAGCCCTATGAGGCTTCCCGGACCTGGCCAGGCGCCAGA
 CATGCAAGGCGGCATGTGTGCTCATTGCATCTGAGGAACAATCAAGGTGTTCACTACCAAGGTG
 AGTGCTAAGACTAAATCAAGCTTACAGCCATGAAGGCTGTCGTGTGCGGAAGGTAGCCCTGGCTACAT
 TTGCCAGCGTGATGTCTGAGGACTATGCCGAGACCTGCCTTGCCTGCCTACCAACCTGGGTGATGTCCA
 CGTCTTCTCGGTGCTGGCTGAGGCCTCAGGTGCACTACTCCTGTATCCGGAAGGAGGACATCAGTGGC
 ATCGCTTCTGTGCTTTCACACGTACAGGCCAGGGCTTTACTTGATTTCTCCATCGGAATTTGAGCGCT
 TCTCACTGAGTGTGCGAACATCAGAACTATGTTCTCTGGATATAAGCTGGCCCCAAAATGCCAC
 CCAGCCCAGGCTTCAAGAGTACCCAAGCTGAGCCAGGCTAATGGGACCAGAGACATCATTCTGGCCCCA
 GAGAGCTGCGAAGGAAGCCCTAGCTCTGCCACAGCAAGCAGCTGATACCATGGAACACCCGAGGCCG
 CTCTCTCGCCTGTGCCATTGATTACAGTGTCTAGTGGGATACCATGCTGGACACAACAGGGGATGTCAC
 CGTGAATATGTGAAGGATTTTCTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211492 protein sequence
 Red=Cloning site Green=Tags(s)

MMKFRFRRQGADPQREKLKQELFAFHKTVEHGFNPQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTG
 LHRDAATVTQMHFLPGQGRLLTLLDDSSLHLWEIIHNGCAHLEEGLSFHPPSRPSFDNASFPASLTRVT
 VVLLVAGNTAALGTESGSIFFLDVATLALLEGQTLSPDVVLRVSPDDYRCGKALGPVESLQGHLDQPSKI
 LIGYSRGLLVIWSQATQSVDNVFLGNQQLESWCGRDGSIISSHSDGSYAIWSTDTGSPPTLQPTVVTT
 PYGPFCKAINKILWRSCESGDHFIIFSGMPPRASYGDRHCVSVLRAETLVTLDFTSRVIDFFTVHSTQP
 EDECDNPQALAVLLEELVVLDLQTPGWPAPVAPYLAPLHSSAITCSAHVANVPSKLWARIVSAGEQQSP
 QPASSALSWPITGGRNLAQEPSQRGLLLTGHEGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQ
 AVEDDWPFRKVGCFDPYSDDPRLGIQKVALCKYTAQMVVAGTAGQVLVLELSEVPAEHAVSVANVDLLQ
 DREGFTWKGHERLNPHTGLLPWPAFQPRMLIQCLPPAAVTAVTLHAEWSLVAFGTSHGFLFDYQRKSP
 VLARCTLHPNDSLAMEGPLSRVKSLSKSLRQSFRRIRKSRVSGKKRTPAASSKLQEANAQLAEQTCPHDL
 EMTVPVQRRIEPRSADDSLSGVVRCLYFADTFLRDATHHGPTMWAGTNSGSVFAYALEVPAATAGGEKRPE
 QAVEAVLGKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLIASEEQFKVFTLPKV
 SAKTKFKLTAHEGCRVRKVALATFASVMSDYAETCLAELTNLGDVHVFSVPLRPQVHYSIRKEDISG
 IASCVFTRHGQGFYLI SPSEFERFSLSARNITEPLCSLDISWPQNATQPRLQESPKLSQANGTRDIILAP
 ESCEGSPSSAHSKRADTMPEPEAALSPVSDSAASGDTMLDITGDVTVVEYVKDFLG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001159404

ORF Size: 3111 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:

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_001159404.2](#)

RefSeq Size: 4425 bp

RefSeq ORF: 3111 bp

Locus ID: 16897

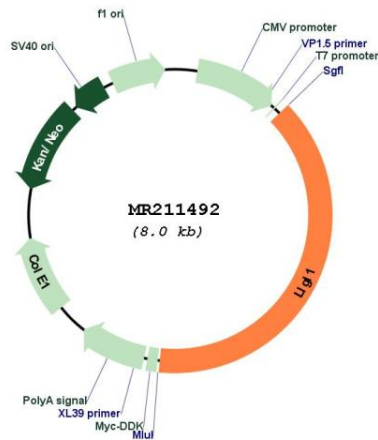
UniProt ID: [Q80Y17](#)

Cytogenetics: 11 37.81 cM

MW: 112.6 kDa

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]

Product images:



Circular map for MR211492