

## Product datasheet for RC209559

### LLGL2 (NM\_001031803) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LLGL2 (NM_001031803) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LLGL2
Synonyms:	HGL; Hugl-2; LGL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209559 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCGGTTCTGAGGCCAGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTA  
ACAAGACGGTGGAGCATGGCTTCCCGCACCAGCCAGCGCCCTCGGCTACAGCCCGTCCCTGCGCATCCT  
GGCCATCGGCACCCGTTCTGGAGCCATCAAGCTCTACGGAGCCCCAGGCGTGGAGTTCATGGGGCTGCAC  
CAGGAGAAACAACGCTGTGACGCAGATCCACCTCCTGCCCGCCAGTGCCAGCTGGTACCCTGCTGGATG  
ACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGGGGCATCGGAGCTGCAGGAGGATGAGAGCTT  
CACACTGCGTGGACCCCAAGGGCTGCCCCAGTGCCACACAGATCACCGTGGTCCCTGCCACATTCCTCC  
TGCGAGCTGCTCTACCTGGCACCAGAGAGTGGCAACGTGTTTGTGGTGCAGCTGCCAGCTTTTCGTGCGC  
TGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGCCCGCCACCGCGGTGT  
GTTTCGAGATGGTGGAGGCACTGCAGGAGCACCTCGAGACCCCAACCAGATCCTGATCGGCTACAGCCGA  
GGCCTCGTTGTCATCTGGGACCTACAGGGCAGCCGCTGCTCTACCACTTCCTCAGCAGCCGCAACTGG  
AGAACAATCTGGTGGCAGCGGGACGGCCGCTGCTCGTCACTGTCACTCTGACGGCAGCTACTGCCAGTG  
GCCCGTGTCCAGCGAAGCCAGCAACCAGAGCCCTCCGACGCTCGTGCCTTACGGTCCCTTTCCCTTGC  
AAAGCGATTACCAGAATCCTCTGGCTGACCACTAGGCAGGGGTTGCCCTCACCATCTTCCAGGGTGGCA  
TGCCACGGGCCAGCTACGGGGACCGCCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCCTTCGA  
CTTCACCTCCCGTGCATCGGCTTCACTGTCTCACAGAGGCAGACCCTGCAGCCACCTTTGACGACCCC  
TATGCCCTGGTGGTGTGGCTGAGGAGGAGCTGGTGGTATTGACCTGCAGACAGCAGGCTGGCCACCGG  
TCCAGCTGCCCTACCTGGCTTCTCTGCACTGTTCCGCCATCACCTGCTCTACCACGTCTCCAACATCCC  
GCTGAAGCTGTGGGAGCGGATCATTGCCCGGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGG  
CCAATTGATGGTGGCACCAGCCTGACCCAGCCCCACCCAGAGGGACCTGCTGCTCACAGGGCAGGAGG  
ACGGCACGGTGCCTTCTGGGATGCCTCGGGTGTCTGCCTGCGGCTGCTTACAAACTCAGCACTGTGCG  
CGTGTTCCTACCGACACGGACCCCAACGAGAACCTCAGTGCCAGGGCGAGGACGAGTGGCCCCACTC



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CGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCCGGCTGGGCATCCAGAAGATCTTCTCTGCA  
 AGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGAAGTGAATGACGAGGC  
 AGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACTGCTGCAGGACCAAGAGGGCTACCGCTGGAAGGGG  
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 AGTGACCAGCTGGCCTTGGAGGGCCACTCTCCGCGTCAAGTCCCTCAAGAAGTCTTGGGTCAATCAT  
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 GGAGGGGAGTGCCAAGGCTGAGCGGCCAGGCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATC  
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 CAGCTGCATCCGCCGGGAGGACGTGAGTGGCATCGCCTCCTGCGTCTTACCAAAATATGGCCAAGGCTTC  
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 GTTCACATCGAGCGGCCGTGGGTGCAGCCTCAGCAATGGCGGAGCAGAG

ACGCGTACGCGGGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209559 protein sequence  
 Red=Cloning site Green=Tags(s)

MRRFLRPGHDPVRRERLRDLFQFNKTVEHGFPHQPSALGYSPSLRILAIIGTRSGAIKLYGAPGVEFMGLH  
 QENNAVQIHLPLPGCQLVTLDDNSLHLWSLKVKGASELQEDESFTLRGPPGAAPSATQITVVLPHSS  
 CELLYLGTESGNVVFVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPRDPNQILIGYSR  
 GLVVIWDLQGSRLYHFLSSQLENIWWQRDGRLLVSCHSDGYSYQWPVSSEAQQPEPLRSLVPYGFPC  
 KAITRILWLTTRQGLPFTIFQGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDP  
 YALVVLAEELVVIDLQTAGWPPVQLPYLASHCSAITCSHHVSNIPKLRWERIIAAGSRQNAHFSTMEW  
 PIDGGTSLTPAPPQRDLTLGHEDGTVRFWDASGVCLRLLYKLSTVRVFLTDTDPNENLSAQGEDEWPLL  
 RKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTAGQVLELNDEAAEQAVEQVEADLLQDQEGYRWKG  
 HERLAARSGPVRFEPGFQPFVLVQCQPPAVVTSALHSEWRLVAFGTSHGFGLFDHQRRQVFKCTLHP  
 SDQLALEGPLSRVKSLLKSLRQSFRRMRSRVSSRKRHPAGPPGEAQEGSAKAERPGLQNMELAPVQRKI  
 EARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVPPAERRMDESRAEQAKEIQL  
 MHRAPVVGILVLDGHSVPLPEPLEVAHDLKSPDMQGSQQLLVVSEEQFKVFTLPKVSARKLKLTALEG  
 SRVRRVSAHFGSRRAEYGEHHLAVLNLGDIQVVSLLPKQVRYSCIRREDVSGIASCVFTKYGGF  
 YLISPSEFERFSLSTKWLVEPRCLVDSAEKTNHRPENGAGPKKAPSRARNSGTQSDGEEKQPGLVMERAL  
 LSDERVLKEIQSTLEGDRGSGNWRSHRAAVGCSLSNGGAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6717\\_b10.zip](https://cdn.origene.com/chromatograms/mk6717_b10.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001031803

**ORF Size:** 3060 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\\_001031803.1](#), [NP\\_001026973.1](#)

**RefSeq Size:** 3590 bp

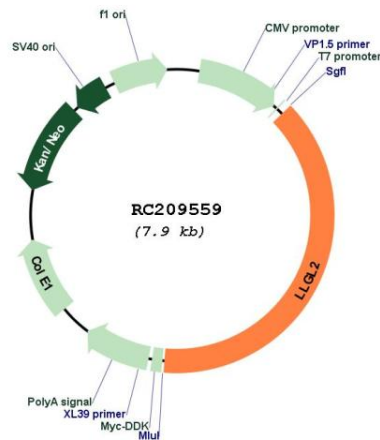
**RefSeq ORF:** 3063 bp

**Locus ID:** 3993

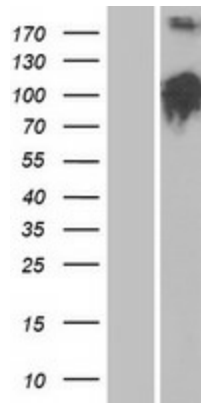
**UniProt ID:** [Q6P1M3](#)  
**Cytogenetics:** 17q25.1  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Tight junction  
**MW:** 113.4 kDa

**Gene Summary:** The lethal (2) giant larvae protein of *Drosophila* plays a role in asymmetric cell division, epithelial cell polarity, and cell migration. This human gene encodes a protein similar to lethal (2) giant larvae of *Drosophila*. In fly, the protein's ability to localize cell fate determinants is regulated by the atypical protein kinase C (aPKC). In human, this protein interacts with aPKC-containing complexes and is cortically localized in mitotic cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

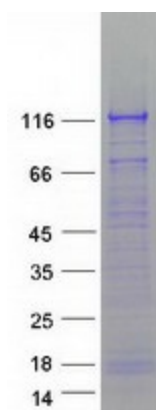
### Product images:



Circular map for RC209559



Western blot validation of overexpression lysate (Cat# [LY422194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209559 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LLGL2 protein (Cat# [TP309559]). The protein was produced from HEK293T cells transfected with LLGL2 cDNA clone (Cat# RC209559) using MegaTran 2.0 (Cat# [TT210002]).