

## Product datasheet for **RG209559**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LLGL2 (NM_001031803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LLGL2
Synonyms:	HGL; Hugl-2; LGL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209559 representing NM_001031803 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCGGTTCTGAGGCCAGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTA  
ACAAGACGGTGGAGCATGGCTTCCCGCACCAGCCAGCGCCCTCGGCTACAGCCCGTCCCTGCGCATCCT  
GGCCATCGGCACCGTTCTGGAGCCATCAAGCTCTACGGAGCCCCAGGCGTGGAGTTCATGGGGCTGCAC  
CAGGAGAAACAACGCTGTGACGCAGATCCACCTCCTGCCCGCCAGTGCCAGCTGGTACCCTGCTGGATG  
ACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGGGGCATCGGAGCTGCAGGAGGATGAGAGCTT  
CACACTGCGTGGACCCCAAGGGGCTGCCCCAGTGCCACACAGATCACCGTGGTCCCTGCCACATTCCTCC  
TGCGAGCTGCTCTACCTGGGCACCGAGAGTGGCAACGTGTTTGTGGTGCAGCTGCCAGCTTTTCGTGCGC  
TGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGCCCGCCACCGCGGTGT  
GTTTCGAGATGGTGGAGGCACTGCAGGAGCACCTCGAGACCCCAACCAGATCCTGATCGGCTACAGCCGA  
GGCCTCGTTGTCATCTGGGACCTACAGGGCAGCCGCTGCTCTACCACTTCCTCAGCAGCCGCAACTGG  
AGAACAATCTGGTGGCAGCGGGACGGCCGCTGCTCGTCACTGTCACTCTGACGGCAGCTACTGCCAGTG  
GCCCGTGTCCAGCGAAGCCAGCAACCAGAGCCCTCCGACGCTCGTGCCTTACGGTCCCTTTCCCTTGC  
AAAGCGATTACCAGAATCCTCTGGCTGACCACTAGGCAGGGGTTGCCCTCACCATCTTCCAGGGTGGCA  
TGCCACGGGCCAGCTACGGGGACCGCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCTTCGA  
CTTCACCTCCCGTGCATCGGCTTCACTGTCTCACAGAGGCAGACCCTGCAGCCACCTTTGACGACCC  
TATGCCCTGGTGGTGTGGCTGAGGAGGAGCTGGTGGTATTGACCTGCAGACAGCAGGCTGGCCACCGG  
TCCAGCTGCCCTACCTGGCTTCTCTGCACTGTTCCGCCATCACCTGCTCTACCACGTCTCCAACATCCC  
GCTGAAGCTGTGGGAGCGGATCATTGCCCGCGCAGCCGCGAGAACGCACACTTCTCCACCATGGAGTGG  
CCAATTGATGGTGGCACCAGCCTGACCCAGCCCCACCCAGAGGGACCTGCTGCTCACAGGGCAGGAGG  
ACGGCACGGTGCCTTCTGGGATGCCTCGGGTGTCTGCCTGCGGCTGCTTACAAACTCAGCACTGTGCG  
CGTGTTCCTACCGACACGGACCCCAACGAGAACCTCAGTGCCAGGGCGAGGACGAGTGGCCCCACTC



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CGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCCGGCTGGGCATCCAGAAGATCTTCTCTGCA  
 AGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGAAGTGAATGACGAGGC  
 AGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACTGCTGCAGGACCAAGAGGGCTACCGCTGGAAGGGG  
 CACGAGCGCTGGCAGCCCGCTCAGGGCCCGTGCCTTTGAGCCTGGCTTTCAGCCCTTCGTGTTGGTGC  
 AGTGTACGCCCCGGCTGTGGTACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC  
 CAGCCATGGCTTTGGCCTCTTTGACCACCAGCAGCGCGGCAGGTCTTTGTTAAGTGCACACTGCACCC  
 AGTGACCAGCTGGCCTTGGAGGGCCACTCTCCGCGTCAAGTCCCTCAAGAAGTCTTGGGTCACTCAT  
 TCCGCCGATGCGTCGGAGCCGGGTGCCAGCCGGAAGCGGCACCCAGCTGGCCCCCAGGAGAGGCACA  
 GGAGGGGAGTGCCAAGGCTGAGCGGCCAGGCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATC  
 GAGGCTCGCTCGGCAGAGGACTCCTTACAGGCTTCGTCCGGACCCTGTACTTTGCTGACACCTACCTGA  
 AGGACAGCTCCCGGCACTGCCCCCGTGTGGGCTGGCACCATGGGGGCACCATCTATGCCTTCTCCCT  
 GCGTGTGCCTCCCGCCGAGCGGAGAATGGATGAGTCTGTGCGGGCAGAGCAGGCCAAGGAGATCCAGCTG  
 ATGACCCGGGCGCGGTGGTGGCATCCTGGTCTCGACGGACACAGCGTACCCCTTCTGAGCCCTCG  
 AAGTGGCCATGATCTGTGAAGAGCCCTGACATGCAGGGAAGCCACCAGCTGCTCGTATCAGAGGA  
 GCAGTTCAAGGTGTTACGCTGCCAAGGTGAGTGCCAAGCTGAAGTTGAAGTACGCGCCCTGGAGGGC  
 TCAAGAGTGGCGGGTACGCTGGCCACTTCGGCAGTCTCGAGCCGAGGACTACGGGAGCACCACC  
 TGGCAGTCTTACCAACCTGGGCGACATCCAGGTGGTCTCGTGGCCCTGCTCAAGCCCCAGGTGCGCTA  
 CAGCTGCATCCGCCGGGAGGACGTCAAGTGGCATCGCCTCCTGCGTCTTACCAAAATATGGCCAAGGCTTC  
 TACCTGATCTCACCTCGGAGTTTGGAGCCTTCTCTCTCCACCAAGTGGCTGGTGGAGCCCCGGTGTG  
 TGGTGGATTACAGAGAAACCAAGAACCACCGCCCTGGTAAACGGTGCAGGGCCCCAAGAAGGCCCGAGCCG  
 AGCCAGGAACCTCAGGACTCAGAGTGTGGCAGGAGAAGCAGCCCGCCTGGTGTGGAGCGCGCTCTG  
 CTCAGTGTGAGAGTCTGAAGGAAATCCAGAGCACACTGGAGGGAGACCGCGGGAGCGGCAACTGGC  
 GTTCACATCGAGCGGCCGTGGGTGCAGCCTCAGCAATGGCGGAGCAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209559 representing NM\_001031803  
 Red=Cloning site Green=Tags(s)

MRRFLRPHGDPVRRERLRDLFQFNKTVEHGFPHQPSALGYSPSLRILAIIGTRSGAIKLYGAPGVEFMGLH  
 QENNAVQIHLPLPGQCQLVTLDDNSLHLWSLKVKGASELQEDESFTLRGPPGAAPSATQITVVLPHSS  
 CELLYLGTESGNVVFVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPDRPNQILIGYSR  
 GLVVIWDLQGSRLVYHFLSSQLENIWWQRDGRLLVSCHSDGSYCQWPVSSEAQQPEPLRSLVPYGPFP  
 KAITRILWLTTRQGLPFTIFQGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDP  
 YALVVLAEELVVIDLQTAGWPPVQLPYLASLHCSAITCSHHVSNIPKLRWERIIAAGSRQNAHFSTMEW  
 PIDGGTSLTPAPPQRDLTLGHEDGTVRFWDASGVCLRLLYKLVSTVRVFLTDTDPNENLSAQGEDEWPLL  
 RKVGSFDPYSDDPRLGIQKIFLCKYSGLAVAGTAGQVLELNDEAAEQAVEQVEADLLQDQEGYRWKG  
 HERLAARSGPVRFEFPGFVFLVQCQPPAVVTSALHSEWRLVAFGTSHGFGLFDHQRRQVFKCTLHP  
 SDQLALEGPLSRVKSLLKSLRQSFRRMRRSRVSSRKRHPAGPPGEAQEGSAKAERPLQNMELAPVQRKI  
 EARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVPPAERRMDESVAEQAKEIQL  
 MHRAPVVGILVLDGHSVPLPEPLEVAHDLKSPDMQGSQQLLVVSEEQFKVFTLPKVSALKLKLTALE  
 SRVRRVSAHFGSRRAEYGEHHLAVLNLGDIQVVSPLLPKQVRYSCIRREDVSGIASCVFTKYGGF  
 YLISPSEFERFSLSTKWLVEPRCLVDSAEKTNHRPENGAGPKKAPSRARNSGTQSDGEEKQPLVMERAL  
 LSDERVLKEIQSTLEGDRGSGNWRSHRAAVGCSLNSGGAE

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<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_001031803.1</a></u> , <u><a href="#">NP_001026973.1</a></u>
<b>RefSeq Size:</b>	3590 bp
<b>RefSeq ORF:</b>	3063 bp
<b>Locus ID:</b>	3993
<b>UniProt ID:</b>	<u><a href="#">Q6P1M3</a></u>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Tight junction
<b>Gene Summary:</b>	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]