

Product datasheet for **RG212604**

LLGL2 (NM_004524) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LLGL2 (NM_004524) 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: >RG212604 representing NM_004524
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAGGCGGTTCTGAGGCCAGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTA
 ACAAGACGGTGGAGCATGGCTTCCCGCACCAGCCAGCGCCCTCGGCTACAGCCCGTCCCTGCGCATCCT
 GGCCATCGGCACCGTCTGGAGCCATCAAGCTCTACGGAGCCCCAGGCGTGGAGTTCATGGGGCTGCAC
 CAGGAGAAACAACGCTGTGACGCAGATCCACCTCCTGCCCGCCAGTGCCAGCTGGTACCCTGCTGGATG
 ACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGGGGCATCGGAGCTGCAGGAGGATGAGAGCTT
 CACACTGCGTGGACCCCAAGGGCTGCCCCAGTGCCACACAGATCACCGTGGTCCCTGCCACATTCCTCC
 TGCGAGCTGCTCTACCTGGCACCGAGAGTGGCAACGTGTTTGTGGTGCAGCTGCCAGCTTTTCGTGCGC
 TGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGCCCGCCACCGCGGTG
 GTTCGAGATGGTGGAGGCACTGCAGGAGCACCTCGAGACCCCAACCAGATCCTGATCGGCTACAGCCGA
 GGCCTCGTTGTCATCTGGGACCTACAGGGCAGCCGCTGCTCTACCACTTCCTCAGCAGCCGCAACTGG
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 GCCCGTGTCCAGCGAAGCCAGCAACCAGAGCCCTCCGACGCTCGTGCCTTACGGTCCCTTTCCCTTGC
 AAAGCGATTACCAGAATCCTCTGGTGACCACTAGGCAGGGGTTGCCCTCACCATCTTCCAGGGTGGCA
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 CTTACACTCCCGTGCATCGGCTTCACTGTCTCACAGAGGCAGACCCTGCAGCCACCTTTGACGACCCC
 TATGCCCTGGT
 TCCAGCTGCCCTACCTGGCTTCTCTGCACTGTTCCGCCATCACCTGCTCTACCACGTCTCCAACATCCC
 GCTGAAGCTGTGGGAGCGGATCATTGCCCGGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGG
 CCAATTGATGGTGGCACCAGCCTGACCCAGCCCCACCCAGAGGGACCTGCTGCTCACAGGGCAGGAGG
 ACGGCACGGTGCCTTCTGGGATGCCTCGGGTGTCTGCCTGCGGCTGCTTACAAACTCAGCACTGTGCG
 CGTGTTCCTACCGACACGGACCCCAACGAGAACTTCAGTGCCAGGGCGAGGACGAGTGGCCCCACTC



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CGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCCGGCTGGGCATCCAGAAGATCTTCTCTGCA
 AGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGAAGTGAATGACGAGGC
 AGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACTGCTGCAGGACCAAGAGGGCTACCGCTGGAAGGGG
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 AGTGTACGCCCCGGCTGTGGTACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC
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 GGAGGGGAGTGCCAAGGCTGAGCGGCCAGGCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATC
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 AGGACAGCTCCCGGCACTGCCCCCGTGTGGGCTGGCACCATGGGGGCACCATCTATGCCTTCTCCCT
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 TGGTGGATTACAGAGAAACCAAGAACCACCGCCCTGGTAAACGGTGCAGGGCCCCAAGAAGGCCCGAGCCG
 AGCCAGGAACCTCAGGGACTCAGAGTGTGGCGAGGAGAAGCAGCCCGCCTGGTGTGAGCGCGCTCTG
 CTCAGTGTGAGAGAGCGCAACTGGCGTTACATCGAGCCCGTGGGTGCAGCCTCAGCAATGGCGG
 AGCAGAGTGAGTGGCTGAGCGTCCAGGCTGCGCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212604 representing NM_004524
 Red=Cloning site Green=Tags(s)

MRRFLRPHGDPVRRERLRDLFQFNKTVEHGFPHQPSALGYSPSLRILAIIGTRSGAIKLYGAPGVEFMGLH
 QENNAVQTIIHLPLPGQCQLVTLDDNSLHLSLKVKGASELQEDESFTLRGPPGAAPSATQITVVLPHSS
 CELLYLGTESGNVVFVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPDRPNQILIGYSR
 GLVVIWDLQGSRLVYHFLSSQLENIWWQRDGRLLVSCHSDGSYCQWPVSSEAQQPEPLRSLVPYGPFPFC
 KAITRILWLTTRQGLPFTIFQGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDP
 YALVVLAEELVVIDLQTAGWPPVQLPYLASLHCSAITCSHHVSNIPKLWERIIAAGSRQNAHFSTMEW
 PIDGGTSLTPAPPQRDLTLGHEDGTVRFWDASGVCLRLLYKLVTRVFLTDTDPNENFSAQGEDEWPLL
 RKVGSFDPYSDDPRLGIQKIFLCKYSGLAVAGTAGQVLVLELNDEAAEQAVEQVEADLLQDQEGYRWKG
 HERLAARSGPVRFEFQPFVQVQPPAVVTSALHSEWRLVAFGTSHGFGLFDHQRRQVFKCTLHP
 SDQLALEGPLSRVKSLLKSLRQSFRRMRRSRVSSRKRHPAGPPGEAQEGSAKAERPGLQNMELAPVQRKI
 EARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVPPAERRMDEPVRAEQAKEIQL
 MHRAPVVGILVLDGHSVPLPEPLEVAHDLKSPDMQGSQQLLVVSEEQFKVFTLTKVSAKLLKLTALLEG
 SRVRRVSAHFGSRRAEYGEHHLAVLNLGDIQVVSPLLPKQVRYSCIRREDVSGIASCVFTKYGGQF
 YLISPSEFERFSLSTKWLVEPRCLVDSAETKNHRPENGAGPKKAPSRARNSGTQSDGEEKQPLVMERAL
 LSDERAATGVHIEPPWGAASAMAEQSEWLSVQAAR

TRTRPLE - GFP Tag - V

Restriction Sites:

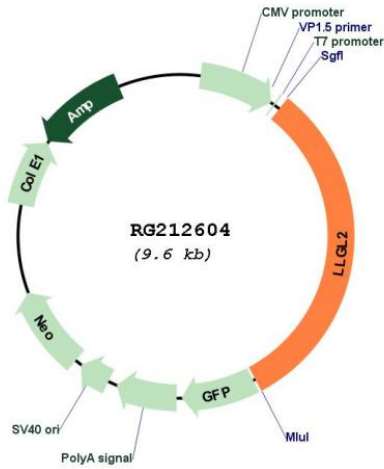
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_004524
 ORF Size: 3045 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004524.3](#)

RefSeq Size: 3547 bp

RefSeq ORF: 3048 bp

Locus ID: 3993

UniProt ID: [Q6P1M3](#)

Cytogenetics: 17q25.1

Domains: WD40

Protein Families: Druggable Genome

Protein Pathways: Tight junction

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]