

## Product datasheet for **RG217078**

### LLGL1 (NM\_004140) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LLGL1 (NM\_004140) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LLGL1  
**Synonyms:** DLG4; HUGL; HUGL-1; HUGL1; Lgl1; LLGL; Mgl1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217078 representing NM\_004140  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGATGAAGTTTCGGTCCGGCGGCAGGGCGCCGACCCGAGCGCGAGAAGCTCAAGCAGGAGCTTTTCG  
 CCTTCAACAAGACTGTGGAGCATGGCTTCCCAATCAGCCAGCGCCCTGGCCTTCGACCCGGAACCTTCG  
 CATCATGGCCATCGCCACCAGGTCTGGGCTGTCAAGATCTATGGTGCACCTGGCGTGGAGTTCACAGGC  
 CTGACCCGGGATGCAGCCACTGTACACAGATGCATTCTTGACCGGCCAGGGCCGCTCCTGTCCCTGC  
 TTGATGACAGCAGTCTGCATCTCTGGGAGATTGCCACCATAATGGCTGTGCCACCTGGAAGAAGCACT  
 CAGTTTCCAGCTGCCAGCCGGCCGGCTTTGATGGTGCCAGTGTCCGCTCAGCCTTACCCGAGTCACA  
 GTGGTCTGTGGTGGCTGCCGGCGACATAGCAGCCCTGGGCACTGAGGGCAGCAGTGTCTTCTTCTCGG  
 ATGTTACCACCCTGACCTGCTCGAGGGGCGAGCAGCTTCCCCAGGGCAGGTTTCTGCGCAGCGTGCCAGA  
 CGACTACCGCTGTGGGAAGGCACTGGGCCCCGTGGAGTCACTCCAGGGACACCTGCGGGACCCCAAAAG  
 ATTCTCATTGGCTACAGCCGGGGCTGTGGTCACTGGAACAGGCCTCGCAGTGTGTGGACCACATCT  
 TCCTGGGAACCAGCAGCTGGAGAGCCTATGCTGGGGCGTGATAGCAGCACTGTGGTCACTCACACAG  
 CGATGGCAGCTATGCTGTCTGGTCTGTGGATGCCGGCAGCTTCCCAACGCTGCAGCCACGGTAGCCACC  
 ACACCTTACGGCCCTTCCCTGCAAGGCCATTAACAAGATTCTGTGGCGAAGTGTGAATCTGGGGGCC  
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 AGCCGAGACATTGGTGACGCTGGACTTCACTTCCCGCATCATCGACTTCTTACAGTGCACAGCACACGG  
 CCCGAGGATGAATTTGATGACCCCGAGCCCTGGCTGTGCTGCTGGAAGAGGAGCTGGTGGTGTGGACC  
 TGCAGACTCCTGGCTGGCCAGCTGTGCCTGCCCATACCTGGCCCGCTGCCTCCTGCAATCACTTG  
 CTCGGCCACGTGGCCAGTGTCCCGCCAAGCTGTGGGCCGATTGTGAGCGCTGGCGAGCAGCAGAGC  
 CCCAGCCTGTCTCCAGTGCCTTGAGCTGGCCATCACTGGGGCCGAAACCTGGCCAGGAGCCGTAC  
 AGCGAGGGCTGCTGCTGACGGGCCATGAGGACGGCACCCTGAGGTTCTGGGATGCCTCGGGTGTGGCGCT  
 GCGGCCGCTCTAAGCTGAGCACAGCTGGCCTTCCAGACAGACTGTGAGCACGCTGACAGCCTGCC



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CAGGCTGCCGAGGACGACTGGCCACCCTTCGCAAGGTGGGCTGCTTCGATCCCTACAGTGACGATCCCC  
 GGCTTGGCGTGCAGAAGTTGCTCTCTGCAAGTATACAGCCCAGATGGTGGTGGCTGGCACTGCAGGCCA  
 GGTGCTGGTACTGGAGCTTAGTGATGTCCGGTGGAGCAGGCGGTGAGCGTGGCCATCATAGACCTCCTC  
 CAGGACCGCGAGGGCTTACATGGAAGGGCCACGAGCGGTGAGCCCACGCACGGGGCCGCTGCCCTGGC  
 CTGCTGGCTTCCAGCCCCGTGCTCTGGTGCAGTGCCTGCCCCAGCTGCTGTAACCGCTGCACACTCCA  
 CACCGAGTGGAGCCTCGTGGCTTTTGGCACCAGTATGGCTTTGGCTCTTCGACTACCAGCGCAAGAGC  
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 AGTCTCTCAAGAAGTCACTGCGCCAGTCTTCCGGCGCATTTCGCAAGAGTCGTGTCTCTGGCAAGAAGCG  
 GGCTGCTAATGCCAGCAGCAAGTTGCAGGAAGCCAATGCACAGCTGGCTGAGCAGGCTGCCCCACGAC  
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 GTTGCCTATACTTTGCCGACACATTCTTCGAGATGGGGCCACCACGGGCCACCATGTGGGTGGCAC  
 CAACTCAGGCTCTGTGTTGCCTATGACTGGAGGTGCCGGCAGCAGCAGTGGTGGTGAAGAAGCGGCT  
 GAGCAAGCGGTGGAGGCCGTGCTGGCAAGGAGGTGCAGCTGATGACCCGGGCGCTGTGGTGGCCATTG  
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 GTGAGCGCAAGACCAAGTTCAAGCTGACGGCCATGAGGGCTGCTGTGCGCAAGGTGGCACTGGCCA  
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 CCACGTCTTCTCGGTGCCTGGCCTGCGGCCACAGGTGACTATTCTGATCCCGAAGGAGGACATCAGC  
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 GCTTCTCCCTAAGTGCCCGAACATCACAGAGCCGCTCTGCTCTCTGGACATTAAGTGGCCCCGCGATGC  
 CACCCAGGCCAGTTACAGGATCCGAGAGTACCCAAGTGAAGCCAGGCTAACGGGACCCCAAGCATCCTG  
 CTGGCCCCACAGAGCCTTGATGGAAGCCCTGATCCAGCCACAGCATGGGACCTGACACCCCGGAGCCAC  
 CCGAGGCTGCACCTCACCCATGCCATCGACTCAGCCACCAAGTGCAGTGCAGCCACGCTGGACACGACAGG  
 GGACGTCACAGTGAAGATGTGAAGGATTTCTGGGCTCCTCTGAGGAGTCAGAGAAGAAGCTGAGGAAC  
 CTGGCAGAAGACGAGGCCACGCTGTGCCATCTGATCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG217078 representing NM\_004140

Red=Cloning site Green=Tags(s)

MMKFRFRRQGADPQREKLKQELFAFNKTVHEHGFNPQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTG  
 LHRDAATVTQMHFLTGGQRLLSLLDDSSLHLWEIVHNGCAHLEEALSFQLPSRPGFDGASAPLSLTRVT  
 VVLLVAAGDIAALGTEGSSVFFLDVTTLLLEGGTLPAGEVLRVSPDDYRCGKALGPVESLQGHRLDPTK  
 ILIGYSRGLLVIWNQASQVDHIFLGNQLES LCWGRDSSVTVSSHSDGSYAVWSVDAGSFPTLQPTVAT  
 TPYGPFPCKAINKILWRNCESSGHFIIIFSGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFTVHSTR  
 PEDEFDDPQALAVLLEELVVLDLQTPGWPAPYPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQS  
 PQPVSALLSWPITGGRNLAQEPSQRGLLLTGHEGTVRFWDASGVALRPLYKLSAGLFQTDCEHADSLA  
 QAAEDDWPPFRKVGCFDPYSDDPRLGVQKVALCKYTAQMVVAGTAGQVLELSDVPVEQAVSVAIIDLL  
 QDREGFTWKGHERLSPRTGPLPWPAGFQPRVVLVQCLPPAAVTAVTLHTEWSLVAFGTSHGFGLFDYQRKS  
 PVLARCTLHPNDSLAMEGPLSRVKSLSLRQSFRRIRKSRVSGKKRAANASSKLQEAQAALAEQACPHD  
 VEMTPVQRRIEPRSADDSLGGVVRCLYFADTFLRDGAHHGPTMWAGTNSGSVFAYALEVPAAVGGEKRP  
 EQAVEAVLGKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLIASEEQFKVFTLPK  
 VSAKTKFKLTAHEGCRVRKVALATFASVACEDYAECLACLNLGDVHVFSVPGLRPQVHYSCIRKEDIS  
 GIA SCVFTRHQGFYLI SPSEFERFSL SARNITEPLCSLDINWPRDATQASYRIRES PKLSQANGTSPSIL  
 LAPQSLDGSPPAHSMPGPDTPPEPPEAALSPMSIDSATSADTTLDTTGDVTVEDVKDFLGSSESEKLNLRN  
 LAEDEAHACAIIK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004140

**ORF Size:** 3192 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\\_004140.3](#), [NP\\_004131.3](#)

**RefSeq Size:** 4225 bp

**RefSeq ORF:** 3195 bp

**Locus ID:** 3996

UniProt ID: [Q15334](#)

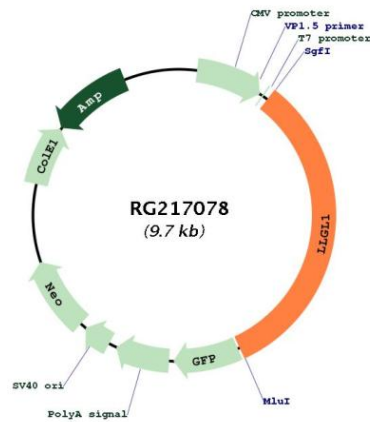
Cytogenetics: 17p11.2

Protein Families: Druggable Genome

Protein Pathways: Tight junction

Gene Summary: This gene encodes a protein that is similar to a tumor suppressor in *Drosophila*. The protein is part of a cytoskeletal network and is associated with nonmuscle myosin II heavy chain and a kinase that specifically phosphorylates this protein at serine residues. The gene is located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG217078