

Product datasheet for **RG212125**

LPHN2 (ADGRL2) (NM_012302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LPHN2 (ADGRL2) (NM_012302) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADGRL2
Synonyms:	CIRL2; CL2; LEC1; LPHH1; LPHN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212125 representing NM_012302 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCTTCTGGTTGCAGAATGCGAAGTCTGTGTTTTATCATTGTAATCAGCTTCTTACCAAATACAG
AAGGTTTCAGCAGAGCAGCTTTACCATTGGGCTGGTGAGGCGAGAATTATCCTGTGAAGTTATTCTAT
AGATCTGCGATGCCGGGCAGTGATGTCATCATGATTGAGAGCGTAACATATGGTCGGACGGATGACAAG
ATTTGTGATGCTGACCCATTTAGATGGAGAATACAGACTGCTACCTCCCGATGCCTTCAAATTATGA
CTCAAAGGTGCAACAATCGAACACAGTGTATAGTAGTTACTGGGTGAGATGTGTTTCTGATCCATGTCC
TGGAACATACAAATACCTTGAAGTCCAATATGAATGTGTCCCTTACATTTTTGTGTGTCCTGGGACCTTG
AAAGCAATTGTGGACTCACCATGTATATGAAGCTGAACAAAAGCGGGTGCTTGGTGCAAGGACCTC
TTCAGGCTGCAGATAAAATTTATTTTCATGCCCTGGACTCCCTATCGTACCGATACTTTAATAGAATATGC
TTCTTTAGAAGATTTCCAAAATAGTCGCCAAACAACAATATAAACTTCCAAATCGAGTAGATGGTACT
GGATTTGTGGTGTATGATGGTGTCTTCTTTAAACAAGAAAGAACGAGGAATATTGTGAAATTTGACT
TGAGGACTAGAATTAAGAGTGGCGAGGCCATAATTAACATGCCAACTACCATGATACCTCACCATACAG
ATGGGGAGGAAAGACTGATATCGACCTAGCAGTTGATGAAAATGGTTTATGGGTCAATTCGCCACTGAA
CAGAACAATGGAATGATAGTTATTAGCCAGCTGAATCCATACACTTTCGATTTGAAGCAACGTGGGGA
CTGTATACGACAAACGTGCCGCATCAAATGCTTTTATGATATGCGGAGTCCCTCTATGTGGTTAGGTGAGT
TTATCAAGACAATGAAAGTGAAACAGGCAAGAACTCAATTGATTACATTTATAATACCCGATTAACCGA
GGAGAATATGTAGATGTTCCCTTCCCAACAGTATCAGTATATTGCTGCAGTGGATTACAATCCAAGAG
ATAACCACTTTACGTGTGGAACAATAACTTCATTTTACGATATTCTCTGGAGTTTGGTCCACCTGATCC
TGCCCAAGTGCTACCACAGCTGTGACAATAACTTCTTCAGTGAGCTGTTCAAACCATATAATCAACC
ACAAGCACTACTCACAGAAAGGCCCATGAGCACAACGTAGCTGGATCACAGGAAGGAAGCAAAGGGA
CAAAACCACCTCCAGCAGTTTCTACAACCAAAATCCACCTATAACAAATATTTTTCCCTGCCAGAGAG
ATTCTGTGAAGCATTAGACTCCAAGGGATAAAGTGGCCTCAGACACAAAGGGGAATGATGTTGAACGA



[View online >](#)

CCATGCCCTAAGGGAACAAGAGGAAGTGCCTCATATCTCTGCATGATTTCCACTGGAACATGGAACCCTA
 AGGGCCCCGATCTTAGCAACTGTACCTCACACTGGGTGAATCAGCTGGCTCAGAAGATCAGAAGCGGAGA
 AAATGCTGCTAGTCTTGCCAATGAACTGGCTAAACATACCAAAGGGCCAGTGTGGCTGGGGATGTAAGT
 TCTTCAGTGAGATTGATGGAGCAGTTGGTGGACATCCTTGATGCACAGCTGCAGGAACCTGAAACCTAGTG
 AAAAGATTACAGCTGGACGGAGTTATAACAAGGCAATTGTTGACACAGTGGACAACCTTCTGAGACCTGA
 AGCTTTGGAATCATGAAACATATGAATTCTTCTGAACAAGCACATACTGCAACAATGTTACTCGATACA
 TTGGAAGAAGGAGCTTTTGTCTAGCTGACAATCTTTTGAACCAACAAGGGTCTCAATGCCACACAGAAA
 ATATTGTCTGGAAGTTGCCGTACTCAGTACAGAAGGACAGATCCAAGACTTTAAATTTCCCTCTGGGCAT
 CAAAGGAGCAGGCAGCTCAATCCAAGTGTCCGCAATACCGTCAAACAGAACAGCAGGAATGGGCTTGCA
 AAGTTGGTGTTCATCATTACCGGAGCCTGGGACAGTTCCCTTAGTACAGAAAATGCAACCATTAAGCTGG
 GTGCTGATTTTATTGGTCGTAATAGCACCATTGCAGTGAACCTCACGTCAATTTCAATCAATAA
 AGAGTCCAGCCGAGTACCTGACTGATCCTGTGCTTTTACCCTGCCACACATTGATCCTGACAATTAT
 TTCAATGCAAACCTGCTCCTTCTGGAACCTACTCAGAGAGAACTATGATGGGATATTGGTCTACCCAGGGCT
 GCAAGCTGGTTGACACTAATAAACTCGAACAACGTGTGCATGCAGCCACCTAACCAATTTTGAATTCT
 CATGGCCACAGGAAATTGCATATAAAGATGGCGTTCATGAATTAATTTTACAGTCATCACCTGGGTG
 GGAATTGCATTTCCCTTGTGGCTGGCTATCTGCATCTTACCTTCTGCTTTTCCGTGGCCTACAGA
 GTGACCGAAATACTATTACAAGAACCTTTGTATCAACCTTTTCAATGCTGAATTTATTTTCCATAATAGG
 CATTGATAAGACAAAATATGCGATTGCATGCCCAATATTTGCAGGACTTCTACACTTTTTCTTTTGGCA
 GCTTTTGTGGATGTGCTAGAAAGGTGTGCAGCTCTACCTAATGTTAGTTGAAGTTTTTGAAGTGAAT
 ATCAAGGAAAAAATATACTATGTTGTGCTGTTACTTGTTCCTGCCACAGTGGTTGGAGTTTCACTGTC
 TATTGACTATAAGAGCTATGGAACAGAAAAGCTTGTGGCTTCATGTTGATAACTACTTTATATGGAGC
 TTCATTGGACCTGTTACCTTCAATTTCTGCTAAATATTATCTTCTTGGTATCATTGTCAAAATGG
 TGAAGCATTCAAACACTTTGAAACCAGATTCTAGCAGTTGGAAAACATTAAGTCTTGGTCTTGGCGC
 TTTGCTCTTCTGTGCTTCTTGGCCTCACCTGGTCTTTGGGTTGCTTTTTTATAATGAGGAGACTATT
 GTGATGGCATATCTTCACTATATTTAATGCTTTCCAGGGAGTGTTCATTTTCACTTTTCACTGTGCTC
 TCCAAAAGAAAGTACGAAAAGAATATGGCAAGTGTTCAGACACTCATACTGCTGTGGAGGCCTCCCAAC
 TGAGAGTCCCCACAGTTCAGTGAAGGCATCAACCACCAGAACCAGTGTCTCGCTATTCCTCTGGCACACAG
 AGTCGTATAAGAAGAATGTGGAATGATACTGTGAGAAAACAATCAGAATCTTCTTTTATCTCAGGTGACA
 TCAATAGCACTTCAACACTTAATCAAGGACATTCAGTGAACAATGCCAGGGATACAAGTCCATGGATAC
 TCTACCGCTAAATGGTAATTTTAAACACAGCTACTCGCTGCACAAGGGTACTATAATGACAGCGTGCAA
 GTTGTGGACTGTGGACTAAGTCTGAATGATACTGCTTTTGGAAAATGATCATTTTCAAGATTAGTGACA
 ACAACTTACGGGGCAGCAGCAAGACTCACAACTCGAGCTCACGCTACCAGTCAAACCTGTGATTGGAGG
 TAGCAGCAGTGAAGATGATGCTATTGTGGCAGATGCTTCATCTTTAATGCACAGCGACAACCCAGGGCTG
 GAGCTCCATCACAAAGAACTCGAGGCACCACTTATTCCTCAGCGGACTCACTCCCTTCTGTACCAACCCC
 AGAAGAAAGTGAAGTCCGAGGGAAGTGCAGCTATGTCTCCCACTGACAGCAGAGGCTGAAGATCACCT
 ACAGTCCCCAACAGAGACTCTCTTTATAACAAGCATGCCCAATCTTAGAGACTCTCCCTATCCGGAGAGC
 AGCCCTGCATGGAAGAAGACCTCTCTCCCTCCAGGAGGAGTGAAGATGAGGACATTTACTATAAAAGCA
 TGCCAAATCTTGGAGCTGGCCATCAGCTTACAGATGTGCTACCAGATCAGCAGGGGCAATAGTGATGGTTA
 TATAATCCCATTAAACAAGAAGGGTGTATTCCAGAAGGAGATGTTAGAGAAGGACAAATGCAGCTGGTT
 ACAAGTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212125 representing NM_012302
 Red=Cloning site Green=Tags(s)

MVSSGCRMRLWFIIIVISFLPNTEGFSRAALPFGLVRRELSCEGYSIDLRCPGSDVIMIESANYGRITDDK
 ICDADPFQMENTDCYLPDAFKIMTQRCCNRTQCI VVTGSDVFPDPCPGTYKYLEVQYECVPYIFVCPGTL
 KAIIVDSPCIYEAQKAGAWCKDPLQAADKIYFMPWTPYRTDTLIEYASLEDFQNSRQTTTYKLPNRVDGT
 GFVVYDGA VFFNKERTRNIVKFDLRTRIKSGEAIINYANYHDTSPYRWGGKTDIDLAVDENG LWIYATE
 QNNGMIVISQLNPYTLRFEATWETVYDKRAASNAFMICGVLYVVRVSVYQDNESETGKNSIDYIYNTRLNR
 GEYVDVPFPNQYQYIAAVDYNPRDNQLYVWNNFILRYSLEFGPPDPAQVPTTAVITSSAELFKTIIST
 TSTTSQKGPMTTAVAGSQEGSKGTPPPAVSTTKIPPITNIFPLPERFCEALDSKGIKWPQTQRGMMVER
 PCPKGTRGTASYLCMISTGTWNPKGPDLSNCTSHWVNQLAQKIRSGENAASLANELAKHTKGPVAFGDVS
 SSVRLMEQLVDILDAQLQELKPSEKDSAGRSYNKAI VDTVDNLLRPEALESWKHMNSSEQAHTATMLLDT
 LEEGAFVLADNLLPTRVSMPTENIVLEVAVLSTEGQIQDFKFLGIKAGSSIQLSANTVKQNSRNGLA
 KLVFIIYRSLGQFLSTENATIKLGADFIGRNSTIAVNSHVISVSINKESSRVYLTDPVFLTPHIDPDNY
 FNANCSFWNYSERTMMGYWSTQGCKLVDTNKTRTTCACSHLTNFAILMAHREIAYKDGVHELLLTVITWV
 GIVISLVCLAICIFTFCFFRGLQSDRNTIHKNL CINLFAEFIFLIGIDKTKYAIACPIFAGLLHFFFLA
 AFAWMCLEGVQLYMLVEVFESEYSRKKYVVAGYLPATVVGVSAAIDYKSYGTEKACWLHVDNYFIWS
 FIGPVTFIILLNIIFLVITLCKMVKHSNTLKPDSRLENIKSWLGAFALLCLLGLTWSFGLLFINEETI
 VMAYLFTIFNAFQGVFIFIFHCALQKKVRKEYGKCFRHSYCCGGLPTESPHSSVKASTTRTSARYSSGTQ
 SRIRRMWNDTVRKQSESSFISGDINSTLNLQGHSLNNARDTSAMDTLPLNGFNNSYSLHKGDYNDVSVQ
 VVDCGLSLNDTAFEKMIISELVHNNLRGSSKTHNLELTLPVKPVIGGSSSEDDAIVADASSLMHSDNPGL
 ELHHKLEAPLIPQRTHSLLYQPQKKVKSEGTD SYVSQLTAEADHLQSPNRDSL YTSMPNLRDSPYEPES
 SPDMEEDLSPSRSENEIDIYKSMPNL GAGHQLQMCYQISRGNSDGYIIPINKEGCIPEGDVREGQMQLV
 TSL

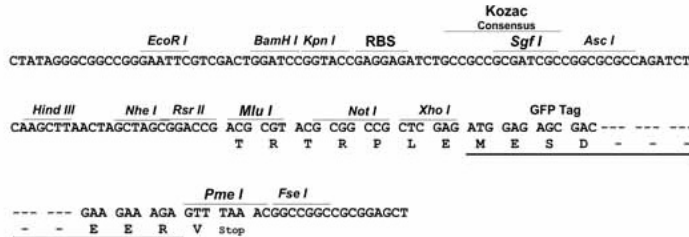
TRTRPLE - GFP Tag - V

Restriction Sites:

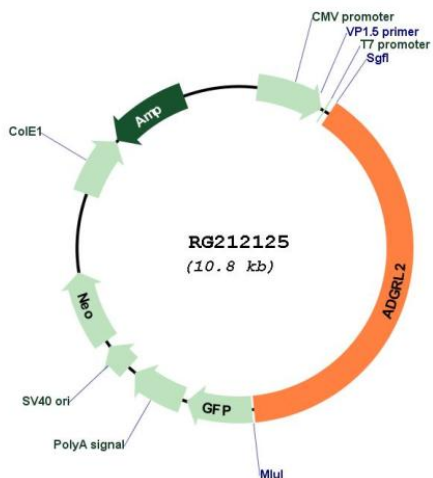
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_012302

ORF Size: 4209 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_012302.2, NP_036434.1</p>
RefSeq Size:	<p>5723 bp</p>
RefSeq ORF:	<p>4212 bp</p>
Locus ID:	<p>23266</p>
UniProt ID:	<p>O95490</p>
Cytogenetics:	<p>1p31.1</p>
Domains:	<p>GPS, 7tm_2, Gal_Lectin, HormR, OLF, Latrophilin</p>
Protein Families:	<p>Druggable Genome, GPCR, Transmembrane</p>
Gene Summary:	<p>This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors. The encoded protein participates in the regulation of exocytosis. The proprotein is thought to be further cleaved within a cysteine-rich G-protein-coupled receptor proteolysis site into two chains that are non-covalently bound at the cell membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p>