

Product datasheet for **RG239983**

LPHN2 (ADGRL2) (NM_001297706) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LPHN2 (ADGRL2) (NM_001297706) 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:	>RG239983 representing NM_001297706. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239983
 Blue=ORF Red=Cloning site Green=Tag(s)

MVSSGCRMRLWFIIIVISFLPNTEGFSRAALPFGLVRRELSCEGYSIDLRCPSDVMIMIESANYGRD
 KICDADPFQMENTDCYLPDAFKIMTQRCNNRTQCI VVTGSDVFPDPCPGTYKYLEVQYECVPYIFVCPG
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 DGTGFVYDGVAVFNKERTRNIVKFDLRLTRIKSGEAIINYANYHDTSPYRWGGKTDIDLAVDENGLWVI
 YATEQNGMIVISQLNPYTLRFEATWETVYDKRAASNAFMICGVLVVRVYQDNESETGKNSIDYIYN
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 PVFAGDVSSSVRLMEQLVDILDAQLQELKPKSEKDSAGRSYNKAI VDTVNDLLRPEALESWKHMNSSEQA
 HTATMLLDLLEEGAFVLDNLLLEPTRVSMPTENIVLEVAVLSTEGQIQDFKFLGKAGSSIQLSANT
 VKQNSRNLAKLVFIIYRSLGQFLSTENATIKLGADFIGNSTIAVNSHVISVINKESSRYYLTDVPL
 FTLPHIDPNDYFNANCSFWNYSERTMMGYWSTQGCKLVDNKRTRTTCACSHLTFNFAILMAHREIAYKDG
 VHELLLTVITWVGIVISLVCLAICIFTFCFRGLQSDRNTIHKNLINLFAEFIFLIGIDKTKYAIAC
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSTRFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

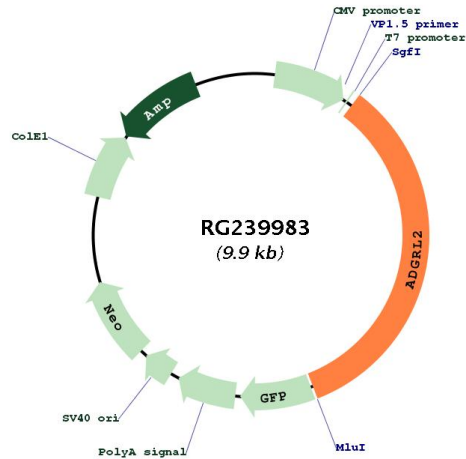


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          Kozac
          Consensus
          SgfI
EcoRI   BamHI KpnI   RBS   ATG GAG AGC GAC
CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCCGCGGATCGCCGGCGCCAGATCT

HindIII  NheI  RsrII  MluI   NotI   XhoI   GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
      T  R  T  R  P  L  E  M  E  S  D  -  -  -

          PmeI   FseI
          GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT
          -  -  E  E  R  V  stop
    
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Plasmid Map:


ACCN: NM_001297706

ORF Size: 3369 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).

RefSeq: [NM_001297706.2](#)

RefSeq Size: 5924 bp

RefSeq ORF: 3372 bp

Locus ID: 23266

UniProt ID: [O95490](#)

Cytogenetics: 1p31.1

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 126.6 kDa

Gene Summary: 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]

