

## Product datasheet for **SC316876**

### LPHN2 (ADGRL2) (NM\_012302) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LPHN2 (ADGRL2) (NM_012302) Human Untagged Clone
Tag:	Tag Free
Symbol:	LPHN2
Synonyms:	CIRL2; CL2; LEC1; LPHH1; LPHN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_012302 edited  
 ATGGTGTCTTCTGGTTGCAGAATGCGAAGTCTGTGGTTTATCATTGTAATCAGCTTCTTA  
 CCAAATACAGAAGTTTTCAGCAGAGCAGCTTTACCATTTGGGCTGGTGAAGCGAGAATTA  
 TCCTGTGAAGTTATTCTATAGATCTGCGATGCCCGGGCAGTGATGTCATCATGATTGAG  
 AGCGCTAACTATGGTCGGACGGATGACAAGATTTGTGATGCTGACCCATTTAGATGGAG  
 AATACAGACTGCTACCTCCCGATGCCTTCAAATTTATGACTCAAAGGTGCAACAATCGA  
 ACACAGTGTATAGTAGTTACTGGTTCAGATGTGTTTCTGATCCATGTCCTGGAACATAC  
 AAATACCTTGAAGTCCAATATGAATGTGCCCTTACATTTTTGTGTGCTGGGACCTTG  
 AAAGCAATTGTGGACTCACCATGTATATATGAAGCTGAACAAAAGCGGGTGCTTGGTGC  
 AAGGACCCTCTCAGGCTGCAGATAAAATTTATTTTCATGCCCTGGACTCCCTATCGTACC  
 GATACTTTAATAGAATATGCTTCTTTAGAAGATTTCCAAAATAGTCGCCAAACAACAACA  
 TATAAACTTCCAATCGAGTAGATGGTACTGGATTTGTGGTGTATGATGGTGTCTTCTTC  
 TTTAAACAAGAAAAGAACGAGGAATATTGTGAAATTTGACTTGAGGACTAGAATTAAGAGT  
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 AAGACTGATATCGACCTAGCAGTTGATGAAAATGGTTTATGGGTCAATTCGCCACTGAA  
 CAGAACAATGGAATGATAGTTATTAGCCAGCTGAATCCATACACTCTTCGATTTGAAGCA  
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 CAGTATCAGTATATTGCTGCAGTGGATTACAATCCAAGAGATAACCAACTTTACGTGTGG  
 AACAACTTCAATTTACGATATTCTCTGGAGTTTGGTCCACCTGATCCTGCCCAAGTG  
 CCTACCACAGCTGTGACAATAACTTCTTCTCAGCTGAGCTGTTCAAACCATAATATCAACC  
 ACAAGCACTACTTACAGAAAGGCCCATGAGCACAACCTGTAGCTGGATCACAGGAAGGA  
 AGCAAAGGGACAAAACCCTCCAGCAGTTTCTACAACCAAAAATCCACCTATAACAAAT  
 ATTTTTCCCTGCCAGAGAGATTCTGTGAAGCATTAGACTCCAAGGGGATAAAGTGGCCT  
 CAGACACAAAAGGGGAATGATGGTTGAACGACCATGCCCTAAGGGAACAAGAGGAAGTCC  
 TCATATCTCTGCATGATTTCCACTGGAACATGGAACCCTAAGGGCCCGATCTTAGCAAC



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TGTACCTCACACTGGGTGAATCAGCTGGCTCAGAAGATCAGAAGCGGAGAAAATGCTGCT  
AGTCTTGCCAATGAACTGGCTAAACATACCAAAGGGCCAGTGTGGCTGGGGATGTAAGT  
TCTTCAGTGAGATTGATGGAGCAGTTGGTGGACATCCTTGATGCACAGCTGCAGGAACTG  
AAACCTAGTGA AAAAGATT CAGCTGGACGGAGTTATAACAAGGCAATTGTTGACACAGTG  
GACAACCTTCTGAGACCTGAAGCTTTGGAATCATGGAAACATATGAATTCCTCTGAACAA  
GCACATACTGCAACAATGTTACTCGATACTTGGAAAGAAGGAGCTTTTGTCTAGCTGAC  
AATCTTTTAGAACCAACAAGGGTCTCAATGCCCCACAGAAAATATTGTCCTGGAAGTTGCC  
GTACTCAGTACAGAAGGACAGATCCAAGACTTTAAATTTCTCTGGGCATCAAAGGAGCA  
GGCAGCTCAATCCA ACTGTCCGCAAAATACCGTCAAACAGAACAGCAGGAATGGGCTTGCA  
AAGTTGGTGTTCATCATTACCGGAGCCTGGGACAGTTCCCTTAGTACAGAAAATGCAACC  
ATTAAACTGGGTGCTGATTTTATTGGTCGTAATAGCACCATTGCAGTGA ACTCTCACGTC  
ATTT CAGTTTCAATCAATAAAGAGTCCAGCCGAGTATACCTGACTGATCCTGTGCTTTTT  
ACCCTGCCACACATTGATCCTGACAATTATTTCAATGCAA ACTGCTCCTCTGGA ACTAC  
TCAGAGAGAACTATGATGGGATATTGGTCTACCCAGGGCTGCAAGCTGGTTGACACTAAT  
AAA ACTCGAACACGTGTGCATGCAGCCACCTAACCAATTTTGCAATTCTCATGGCCAC  
AGGGAAAATTGCATATAAAGATGGCGTTCATGAATTA CTCTTACAGTCATCACCTGGGTG  
GGAATTGTCATTTCCCTTGTTTGCCTGGCTATCTGCATCTTACCTTCTGCTTTTTCCGT  
GGCCTACAGAGTGACCGAAATACTATTCACAAGAACCTTTGTATCAACCTTTTCATTGCT  
GAATTTATTTTCC TAATAGGCATTGATAAGACAAAATATGCGATTGCATGCCCAATATTT  
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TATGTTGCTGGTACTTGTTCCTGCCACAGTGGTTGGAGTTT CAGCTGCTATTGACTAT  
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GCTTTCCAGGGAGTGTTCAATTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  
GAATATGGCAAGTGCTT CAGACTCATACTGCTGTGGAGGCCTCCCACTGAGAGTCCC  
CACAGTTCAGTGAAGGCATCAACCACCAGAACCAGTGTCTGCTATTCTCTGGCACACAG  
AGTCGTATAAGAAGAATGTGGAATGATACTGTGAGAAAACAATCAGAATCTTCTTTTATC  
TCAGGTGACATCAATAGCACTTCAACACTTAATCAAGGACATTCACTGAACAATGCCAGG  
GATACAAGTGCCATGGATACTCTACCGTAAATGGTAATTTTAAACAACAGCTACTCGCTG  
CACAAGGGTGACTATAATGACAGCGTGAAGTTGTGGACTGTGGACTAAGTCTGAATGAT  
ACTGCTTTTGAGAAAATGATCATTTT CAGAATTAGTGCACAACA ACTTACGGGGCAGCAGC  
AAGACTCACAACCTCGAGCTCACGCTACCAGTCAAACCTGTGATTGGAGGTAGCAGCAGT  
GAAGATGATGCTATTGTGGCAGATGCTTCATCTTTAATGCACAGCGACAACCCAGGGCTG  
GAGCTCCATCACAAGA ACTCGAGGCACCACTTATTCCTCAGCGGACTCACTCCCTCTG  
TACCAACCCCGAAGAAGTGAAGTCCGAGGGA ACTGACAGCTATGTCTCCCACTGACA  
GCAGAGGCTGAAGATCACCTACAGTCCCCAACAGAGACTCTTTTATACAAGCATGCC  
AATCTTAGAGACTCTCCCTATCCGGAGAGCAGCCCTGACATGGAAGAAGCCTCTCTCCC  
TCCAGGAGGAGTGAGAATGAGGACATTTACTATAAAAAGCATGCCAAATCTTGGAGCTGGC  
CATCAGCTTCAGATGTGCTACCAGATCAGCAGGGGCAATAGTGATGGTTATATAATCCCC  
ATTAACAAAGAAGGGTGTATTCCAGAAGGAGATGTTAGAGAAGGACAAATGCAGCTGGTT  
ACAAGTCTTTAA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' genomic read for NM_012302 unedited GAAGTCACAGGCTGTCTTCAATATAATCCTCGCATGAGGACCTTGAATTCTAAGATGC CGATTCAAGACTTGTAACCCCTGCACCTTGTCTTCTCTAACATCGCCTTCTGGAATACAC CCTTCTTTGTTAATGGGGATTATATAACCATCACTATTGCCCTGCTGATCTGGTACCAC ATCTGAAGCTGATGGCCAGCTCCAATATTTGGCATGCTTTTATAGTAAATGCCTCATT TCACTCCTCCTGGAGGGAGAGAGGTCTTCTTCCATGTCATGGCTGCTCTCCGATAGGGA GAGTCTCTAAAAATTGGGCATGCTTGATATAAAGAGAGTCTATGTTGGGGACTGTAGGTGA TCTTCAGCCTCTGCTGCACTTGGGAGACATATACTGTCAGTTCCTCGCACTTCACTTT CTCTGGGGTTGGTACAGAAGGGAGTGAGTCCGCTGAGGAATAGGTGGTGCCTGGAGTTC TTTGTGATGGAGCTCCAGCCCTGTGTTGTCGCTGACTATTAAGATGAATCATCTGCCAC AATGCCATCATCTTTCTGCCTGTACCTCCACTCGCAGGCTTGACTGACAGCGTGAGCTC GAGGTTGAGAGTCTTGCTGCTGCCCTAAGTTGCTGTGCACTACTGCTGACATGATCCAT TTTCTCTAACCAATATCACTCAGACTTAGTGCCACAGTCAACAATTGCACGCTGTCATT ATGAGTCGCCCCTTGTGCATGAGAAGACTGTGCTAAAATGACCATTTAAACGTCCAGTAG TCATGGCATGTCTAGTCCCTCGTATTTGTTCACTGAACGTCCTCATTTAGTGTAGTAT GCTAATAGACGTACGCCGAGATAAGGAAACATTCTACTTGTCTTGTATCCCTATCATT TCCCGATGCCTCATGTTGCGAACTTCTCGTTGCAGTAGCATC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_012302
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA
<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>	<a href="#">NM_012302.2</a> , <a href="#">NP_036434.1</a>
<b>RefSeq Size:</b>	5723 bp
<b>RefSeq ORF:</b>	4212 bp
<b>Locus ID:</b>	23266
<b>UniProt ID:</b>	<a href="#">O95490</a>
<b>Cytogenetics:</b>	1p31.1
<b>Domains:</b>	GPS, 7tm_2, Gal_Lectin, HormR, OLF, Latrophilin

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**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]

Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 5. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 4. Variants 1 and 2 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.