

Product datasheet for **RG206643**

ARH (LDLRAP1) (NM_015627) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ARH (LDLRAP1) (NM_015627) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ARH |
| Synonyms: | ARH; ARH1; ARH2; FHCB1; FHCB2; FHCL4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG206643 representing NM_015627 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCGCTCAAGTCGGCGGGCGGGCGCTGATCCGGAGCCCCAGCTTGGCCAAGCAGAGCTGGGGG
GCGGTGGCCGGCACCGCAAGCTGCCTGAGAACTGGACAGACACCGGGAGACGCTGCTGGAGGGGATGCT
GTTTCAGCCTCAAGTACCTGGGCATGACGCTAGTGGAGCAGCCCAAGGGTGAAGGAGCTGTCGGCCCGCCG
ATCAAGAGGATCGTGGCTACAGCTAAGGCCAGTGGGAAGAAGCTGCAGAAGGTGACTCTGAAGGTGTCGC
CACGGGAATTATCCTGACAGACAACCTACCAACCAGCTCATTGAGAACGTGTCCATATACAGGATCTC
CTATTGCACAGCAGACAAGATGCACGACAAGGTGTTTGCATACATCGCCCAGAGCCAGCACAACCAGAGC
CTCGAGTGCCACGCCTTCTCTGACCAAGCGGAAGATGGCACAGGCTGTTACCCCTACCGTAGCCAGG
CCTTCAAAGTCGCCTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAGAGAGGGACAAAGCCAGCCA
AGAGGGAGGGGACGCTCTGGGGCCCGCAAGACTGCACCCCCCTTGAAGAGCTTGGTCGCCACTGGG
AACCTGCTGGACTTAGAGGAGACGGCTAAGGCCCGCTGTCCACGGTCAGCGCCAACACCACCAACATGG
ACGAGGTGCCCGGCCACAAGCCTTGAGTGGCAGCAGTGTGTCTGGGAGCTGGATGATGGCCTGGATGA
AGCGTTTTCGAGGCTTGGCCAGTCTCGGACAAACCCTCAGGTCTGGACACTGGCCTGACAGCCCAGGAC
ATGCATTACGCCAGTGCCTCTCGCCTGTCGACTGGGACAAGCCTGACAGCAGCGGCACAGAGCAGGATG
ACCTCTCAGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206643 representing NM_015627
 Red=Cloning site Green=Tags(s)

MDALKSAGRALIRSPSLAKQSWGGRHRKLPENWTDRETLLLEGMLFSLKYLGMTLVEQPKGEELSAAA
 IKRIVATAKASGKQLQKVTLKVSPRGIILTDNLTNQLIENVSIYRISYCTADKMHDKVFAYIAQSQHNQS
 LECHAFLECTKRKMAQAVLTLVAQAFKVAFEFWQVSKEEKEKRDKASQEGGDVLAGARQDCTPPLKSLVATG
 NLLDLEETAKAPLSTVSANTTNMDEVPRPQALSGSSVVWELDDGLDEAFSRLAQSRTNPQVLDTGLTAQD
 MHYAQCLSPVDWDPDSSGTEQDDLFSF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015627

ORF Size: 924 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_015627.1](#), [NP_056442.1](#)

RefSeq Size: 2862 bp

RefSeq ORF: 927 bp

Locus ID: 26119

UniProt ID: [Q5SW96](#)

Cytogenetics: 1p36.11

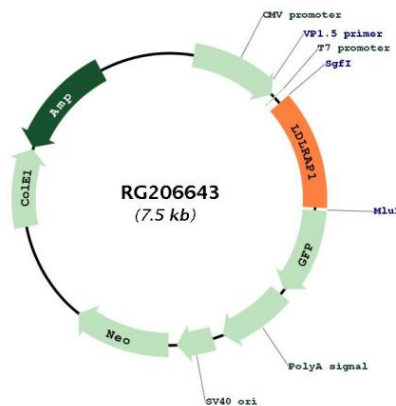
Domains: PID

Protein Families: Druggable Genome

Protein Pathways: Endocytosis

Gene Summary: The protein encoded by this gene is a cytosolic protein which contains a phosphotyrosine binding (PTD) domain. The PTD domain has been found to interact with the cytoplasmic tail of the LDL receptor. Mutations in this gene lead to LDL receptor malfunction and cause the disorder autosomal recessive hypercholesterolaemia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206643