

## Product datasheet for **SC128253**

### ARH (LDLRAP1) (NM\_015627) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARH (LDLRAP1) (NM_015627) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARH
Synonyms:	ARH; ARH1; ARH2; FHCB1; FHCB2; FHCL4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_015627 edited  
 CGGCGGGCGGGCCGAGCGGGCCATGGACGCGCTCAAGTCGGCGGGGGCGGGCGCTGATC  
 CGGAGCCCCAGCTTGGCCAAGCAGAGCTGGGGGGCGGTGGCCGGCACCGCAAGCTGCCT  
 GAGAACTGGACAGACACGCGGGAGACGCTGCTGGAGGGGATGCTGTTACGCTCAAGTAC  
 CTGGGCATGACGCTAGTGGAGCAGCCCAAGGGTGAGGAGCTGTCGGCCGCCCATCAAG  
 AGGATCGTGGCTACAGCTAAGGCCAGTGGGAAGAAGCTGCAGAAGGTGACTCTGAAGGTG  
 TCGCCACGGGAATTATCCTGACAGACAACCTCACCAACCAGCTCATTGAGAACGTGCC  
 ATATACAGGATCTCCTATTGACACAGCAGACAAGATGCACGACAAGTGTTCATACATC  
 GCCCAGAGCCAGCACAACCAGAGCCTCGAGTGCCACGCCTTCTCTGCACCAAGCGGAAG  
 ATGGCACAGGCTGTTACCTCACCGTAGCCAGGCCTTCAAAGTCGCCTTTGAGTTTTGG  
 CAGGTGTCCAAGGAAGAGAAAGAGAAGAGGGACAAGCCAGCCAAGAGGGAGGGGACGTC  
 CTGGGGGGCCCAAGACTGCACCCCCCTTGAAGAGCTTGGTCGCCACTGGGAACCTG  
 CTGGACTTAGAGGAGACGGCTAAGGCCCGCTGTCCACGGTCAGCGCCAACACCACCAAC  
 ATGGACGAGGTGCCGCGCCACAAGCCTTGAGTGGCAGCAGTGTGTCTGGGAGCTGGAT  
 GATGGCCTGGATGAAGCGTTTTTCGAGGCTTGCCAGTCTCGGACAAACCCTCAGTCTCTG  
 GACACTGGCCTGACAGCCAGGACATGCATTACGCCAGTGCCTCTCGCCTGTGACTGG  
 GACAAGCCTGACAGCAGCGGCACAGAGCAGGATGACCTCTTACGCTTCTGAGGGCCCGGG  
 GCCAGCCGGACACAAGCGGCCCTGACACGTGATGGACAAAGCCACCTGTGCGGGGGAG  
 CCGATTTGGGGCCCGCTGCCACCTCTCCAGCCCTCAGCATTGTGAGCCTGAAGATCA  
 GAGCTGCAGCCAGTCAGGCAGGGGAGAGATTTTTCTTTAAGCCCTGCTCTTTCTCTGAG  
 AACCAAAAGATGCCTTGAATATTTATTCAGTGACTTCTGGCTTATGCTCAGAAGCCAGTC  
 TGCGTCAGGCACGCTCCTGCTGCGTGACATGTGCAGTGTGTAATCGGCTCCCGCTTGC  
 TCTCTGGAGCAAGCTCTGCCCTGGCTGTGGGTATCAGGACTGTGACCAAAAGCATTCTA  
 GTCCTTCTCTTTCTAAGGACCCAAATTTCCCTGGGGGCATCCTGCTTCTGAAAAGCT  
 GTTGGATTTAGTGATTTTTCCCCACCCCCAGCACAGGAGAGCACCCACAGCCGACG  
 AAGGGGAATGTGCTCCTGCTGCTTCTCAGGGCCAGCAGGCGGGGGTTGAGCCC  
 TGGACCCAGGCTCTTAGAGACTAAGGGGCAGCTCCTGACCAAAGACGATACAGTTGGC  
 ACTTTAAAGCATTAAACAGCAGGTGTGACCTGAGGGCTCCTCCATGGTGTGCTTGGT  
 CCAGCTTTCTTCTGCCCTTCTCCAGGAGAAGGGGCCCAAGTCCCGTGGATGGTCTC  
 CACCTGTGCTTGAACCAGTGAACCTGGCTGCTCCTGCTCCAGGACTGACACGGGGA  
 TCATCTGTGACCGCCCTCCGTGGGGCCCTGCCTGCCTTCTCCCTCCACGCAAGGCT  
 GTGCTTCTCTGTTTTCTGTGTGTCGTTTGTGAGTGTCTGCGCCCGCCTCCCACTACT  
 TCTGGGATGATGTGTGAAACCTGACACCTAGATTTATTTGAAAATATTCTATGACCACT  
 TTACAGATGAGGAAACTGAGGCCTCAAGCGTGGAGGGGTAGAGTGAAGAGTAGAACCCAG  
 GTCTGATGCCAAAGCTGCTTTCTTCTGCTCCTCCTCACGCAACTCACACCTCCTTTT  
 CTTCTAGCTTTGTTGCTCCAGGAACCAAAAAACCCAGCTATTTTCTGACCAAAATG  
 TGTTTTATAACAAACCATCTGGTGCCTTCCACACAGAAGTGGCAGGAGCCTCGTGTCT  
 GCTAGCTGTCTCTTGTGATTTCCGTGAAAATGCAAGTGTGTTGAAAGTGTGCTCATTCC  
 GAGGGTGAACAAAAATCCAACCCTGTGAGAATCATGCTGTTCTCTTTGCTGACACTGTGA  
 CCTGGGTGCGGGACAGACCAGCAATCTGTCTTTAGAATCGCTTTCTTCTCCTCCCTT  
 TTGCCCCCGTGGGGCTCCCGCATCCTGAAAGCCAGCAAAGCCTCCAGCATCTTTTCCAT  
 CCTGAGGTGCCTCCAGTGGCCTGGCTTGTGCGAGCAAGTTTCATCAGCCCTAGGAAAA  
 CACGGCCCTCCTGGAACCTCCTTACCTGGAGTAACCGGACACCTTAGACGGAGGTGCCT  
 GAGGGTGGGGTGGGATTTGACGGGTATTATCAGAATGAGGATAAATTCTTGGCCCT  
 GCTCTGTAGCCACCTCCTGGCACCGGCCTCTATTTGTGATAAGGCGCGTGGGCGAGGC  
 CTGACACAGGCCAGCCTTGGCACGAGGGGGCCAGGGTTCTGAGAAGCGCTGCCCTGTG  
 AGAGCCACGCTGGCCTTCTGCTCCTCTGTTGACGGGCTGTCCGTGTGCTCCTGTG  
 TGTCTGCAGACAAGTCTTGTGCTTTATTTGTGAAACTTTAATGAGGAAAAACAAT  
 AATAAATGTTCTCGTTTTGAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_015627 unedited NNNNGTCCAGTTCAAATTTTGTAAATACGACTCACTATAGGGCGGCNCGCGATTCCCGGGA TCGGCGGCGGGCCGGAGCGGGCCATGGACGCGCTCAAGTCGGCGGGCGGGCGCTGAT CCGGAGCCCCAGCTTGGCCAAGCAGAGCTGGGGGGCGGTGGCCGGCACCGAAGCTGCC TGAGAACTGGACAGACACGCGGGAGACGCTGCTGGAGGGGATGCTGTTACGCCTCAAGTA CCTGGGCATGACGCTAGTGGAGCAGCCCAAGGGTGAGGAGCTGTCGGCCCGCCCATCAA GAGGATCGTGGCTACAGCTAAGGCCAGTGGGAAGAAGCTGCAGAAGGTGACTCTGAAGGT GTCGCCACGGGAATTATCCTGACAGACAACCTACCAACCAGCTATTGAGAAGCTGTC CATATACAGGATCTCTATTGCACAGCAGACAAGATGCACGACAAGGTGTTTGCATACAT CGCCCAGAGCCAGCACAACCAGAGCCTCGAGTGCCACGCCTTCTCTGCACCAAGCGGAA GATGGCACAGGCTGTTACCCTCACCGTAGCCAGGCCCTCAAAGTCGCCTTTGAGTTTTG GCAGGTGTCCAAGGAAGAGAAAGAGAAGAGGGACAAAGCCAGCCAAGAGGGAGGGGACGT CCTGGGGGCCCGCAAGACTGCACCCCCCTTGAAGAGCTTGGTCGCCACTGGGAACCT GCTGGACTTAGAGGAGACCGCTAAGGCCCGCTGTCCACGGTCAGCGCCAACACCACCAA CATGGACGANGTCCCGCGGGCCACAGCCTTGAGTGGCAGCAGTGTGTCTGGGAGCTGGA TGATGGCCTGNATGAAGCGTTTTTCGAGGCTGCCAGTCTCGGACAACCTCAGGTCTCG AACTGCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_015627
<b>Insert Size:</b>	2900 bp
<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>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_015627.1</a> , <a href="#">NP_056442.1</a>
<b>RefSeq Size:</b>	2862 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	26119
<b>UniProt ID:</b>	<a href="#">Q5SW96</a>
<b>Cytogenetics:</b>	1p36.11
<b>Domains:</b>	PID
<b>Protein Families:</b>	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]