

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | mOlr1            |
| Accession:     | NP_619589        |
| Insert size:   | 1105bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

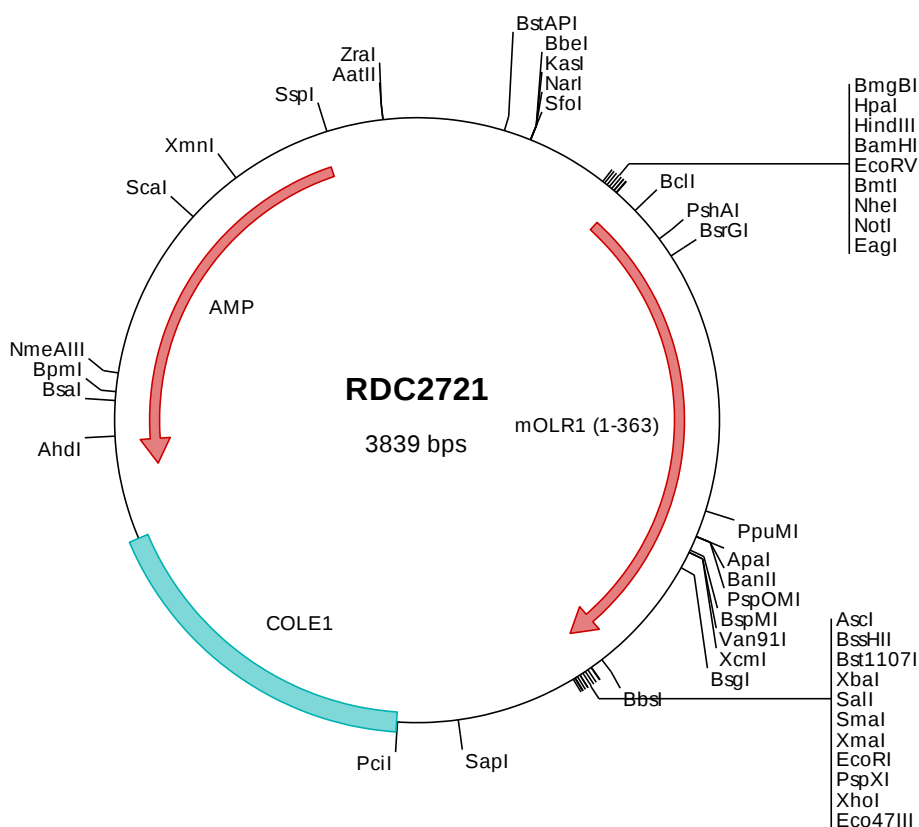
## mLOX-1/OLR1 cDNA Plasmid

**Olr1 oxidized low density lipoprotein (lectin-like) receptor 1 [ *Mus musculus* (house mouse) ]**

**Also known as:** LOX-1; SR-EI; Scare1

### Summary:

OLR1 is a low density lipoprotein receptor that belongs to the C-type lectin superfamily. It is regulated through the cyclic AMP signaling pathway. OLR1 binds, internalizes and degrades oxidized low-density lipoprotein. It may be involved in the regulation of Fas-induced apoptosis and may play a role as a scavenger receptor. Mutations of OLR1 have been associated with atherosclerosis, risk of myocardial infarction, and may modify the risk of Alzheimer's disease.



## > RDC2721 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaaac tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atgacttttg atgacaagat gaagcctgcg aatgacgagc ctgatcagaa
501  gtcatgtggc aagaagccta aaggtctgca tttgttttcc tccccatggt ggttccccgc tgcatagact ctggtcatcc tctgcctggt gttgtcagtg
601  acccttattg tacagtggac acaattacgc caggtatctg acctctttaa acaataccaa gogaacctta ctcagcagga tctatctctg gaagggcaga
701  tgttagccca gcagaaggca gaaaacactt cacaggaaac aaagaaggaa ctgaaaggaa agatagacac cctcaccagc aagctgaatg agaaatccaa
801  agagcaggag gagcttttac agaagaatca gaacctccaa gaagccctgc aaagagctgc aaactcttca gaggagtccc agagagaact caagggaaag
901  atagacacca tcaccoggaa gctggacgag aaatccaaag agcaggagga gcttctgcag atgattcaga acctccaaga agccctgcag agagctgcaa
1001 actcttcaa aggcggtaat agagactca agggaaagat agacacctc accttgaaag tgaacgagaa atccaaagag caggaggagc tctacagaa
1101 gaatcagaac ctccaagaag cctgcaaaag agctgcaaac ttttcaggtc cttgtccaca agactggctc tggcataaag aaaactgtta cctottccat
1201 gggcccttca gctgggaaaa aaaccggcag acctgccaat ctttgggtgg ccagttacta caaattaatg gtgcagatga tttgacatg atcttaacaa
1301 caatttccca taccacttcc ccgtttctga cgggattgca tgggaagaag cctggccaac catggctatg ggagaatgga actcctttga attttcaatt
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1501 ttcagcatat gtcagaagaa gacaaatcat ttgcaaatth aaaggcgccg cagtatactc tagagtcgac acccggggaa ttctctgagc gctcgtctct
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1701 ggggtgccta atgagtgagc taactcacat taattgcgtt cgcgtcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg
1801 ccaacgcgcg gggagaggcg gtttgcgtat ttggcgctct tccgcttctc cgcctactga ctcgctgcgc tcggtcgttc ggtcgcggcg agcggtatca
1901 gctcactcaa aggcggtaat acggttatcc acagaaatcag gggataacgc aggaaagaac atgtgagcaa aagggccagc aagggccagc aacctgaaaa
2001 aggcgcgctt gctggcgttt ttccataggg tcgcgcacct cgcagagcat cacaataatc gacgctcaag tcagaggtgg cgaataccga caggactata
2101 aagataccag cgttttcccc ctggaagctc cctcgtgcgc tctcctgttc cagccctgcc gcttaccgga tacctgtccg ccttctccc tcggggaagc
2201 ttggcgcttt ctcagtctc acgctgtagg tatctcagtt cgggttagtg cgttcgctcc cgttcgctcc gtgtgcacga accccccgtt cagcccgacc
2301 gctgcgcttt atccggtaac tatcgtcttg agtccaaccc ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta cgagagcgag
2401 ttatgtaggc ggtgctacag agttcttgaa gtggtggcct aactacggct acactagaag gacagtattt ggtatctgcg cctcgtgaa gccagttacc
2501 ttcggaaaaa gagttgtag ctcttgatcc ggcaaaacaa ccaccgctgg tagcgggtgt tttttgttt gcaagcagca gattacgcgc agaaaaaaag
2601 gatctcaaga agatcctttg atcttttcta cggggtctga cgctcagtgg aacgaaaact cacgttaagg gattttgttc atgagattat caaaaaagat
2701 cttcacctag atcctttttaa attaaaaaatg aagttttaa tcaatctaaa gtatatatga gtaaaacttg tctgacagt accaatgott aatcagtgag
2801 gcacctatct cagcgtctg tctatttctg tcatccatag ttgcctgact ccccgctcgt tagataacta cgatacggga gggcttacca tctggcccca
2901 ttgctgcaat gataccgcga gacccacgct caccggctcc agatttatca gcaataaacc agccagcccg aagggccgag cgcagaagtg gtccctgcaac
3001 tttatccgcc tccatccagt ctattaattg ttgcgggaaa gctagagtaa gtatgtccg agttaatagt ttgcgcaacg ttgttgccat tgctacagcg
3101 atcgtggtgt cacgctcgtc gtttggatg gcttcattca gctccggttc ccaacgatca agggcagtta catgatcccc catgttgtgc aaaaaagcgg
3201 ttagctcctt cggctcctcc atcgttgtca gaagtaagtt ggccgcagtg ttatcactca tgggttatgg agcactgcat aattctctta ctgtcatgcc
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3401 gataataacc cgccacatag cagaacttta aaagtgtcga tcattggaaa acgttctctg gggcgaaaaa tctcaaggat cttaccgctg ttgagatcca
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3601 aaagggaaata agggcgacac gaaaatgttg aataactata ctcttctctt tccaatatta ttgaagcatt tatcagggtt atgtctcat gagcggatac
3701 atatttgaat gtatttagaa aaataaacia ataggggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat
3801 taacctataa aaataggcgt atcacgagcg cctttcgtc

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## > RDC2721 Translated Insert Sequence

```

1   mtfddkmkpa ndepdqkscg kpkpklhlls spwwfpaamt lvilclvlsv tliqvwtqlr qvsdllkqyq anltqqdril egqmlaqkka entsqeskke
101  lkgkidtlitg klnekskege ellqknqnlq ealqraanss eesqrelkkg idtitrklde kskeqeellq miqnlqcalq raansseesq relkgkidtl
201  tlklnekske qeellqknqn lqcalqraan fsgpcpqdwl whkencylfh gpfsweknrq tcqslggqll qingaddltf ilqaishtts pfwiglhrkk
301  pgqpwlweng tplnfqffkt rgvslqlyss gncaylqdg vfaencilia fsicqkktnh lqi

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