

Product datasheet for SC128009

LAR (PTPRF) (NM_130440) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAR (PTPRF) (NM_130440) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAR
Synonyms:	BNAH2; LAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128009 sequence for NM_130440 edited (data generated by NextGen Sequencing)

```

ATGGCCCCTGAGCCAGCCCCAGGGAGGACGATGGTGCCCTTGTGCTGCACTGGTGATG
CTTGTTTTGGTGGCAGGGCCCCATGGTGACAGCAAACCTGTCTTATTAAAGTCCCTGAG
GACCAGACTGGGCTGTGTCAGGAGGGGTAGCCTCCTTCGTGTGCCAAGCTACAGGAGAACCC
AAGCCGCGCATCACATGGATGAAGAAGGGGAAGAAAGTCAGCTCCAGCGCTTCGAGGTC
ATTGAGTTTGTGATGGGGCAGGGTCAGTGCTTCGGATCCAGCCATTGCGGGTGCAGCGA
GATGAAGCCATCTATGAGTGTACAGCTACTAACAGCCTGGGTGAGATCAACTAGTGCC
AAGCTCTCAGTGCTCGAAGAGGAACAGCTGCCCTGGGTTCCCTTCCATCGACATGGGG
CCTCAGCTGAAGGTGGTGGAGAAGGCACGCACAGCCACCATGCTATGTGCCGAGGCGGA
AATCCAGACCCTGAGATTTCTTGGTTCAAGGACTTCCTTCTGTAGACCCTGCCACGAGC
AACGGCCGCATCAAGCAGCTGCGTTCAGGTGCCTTGCAGATAGAGAGCAGTGAGGAATCC
GACCAAGGCAAGTACGAGTGTGTGGCGACCAACTCGGCAGGCACACGTTACTCAGCCCCT
GCGAACCTGTATGTGCGAGTGCGCCGCGTGGCTCCTCGTTTCTCCATCCCTCCCAGCAGC
CAGGAGGTGATGCCAGGCGGCAGCGTGAACCTGACATGCGTGGCAGTGGGTGCACCCATG
CCCTACGTGAAGTGGATGATGGGGGCCGAGGAGCTCACAAGGAGGATGAGATGCCAGTT
GGCCGCAACGTCCTGGAGCTCAGCAATGTCGTACGCTCTGCCAACTACACCTGTGTGGCC
CCTCCGATTGATCTTGTGGTGACAGAGACAAGTCCACCAGTGTACCCCTCACCTGGGAC
TCTGGGAACTCGGAGCCTGTAACCTACTATGGCATCCAGTACCGCGCAGCGGGCACGGAG
GGCCCCCTTTCAGGAGGTGGATGGTGTGGCCACCACCCGCTACAGCATTGGCGGCCTCAGC
CCTTTCTCGGAATATGCCTTCCGCGTGCTGGCGGTGAACAGCATCGGGCAGGGCCGCC
AGCGAGGAGTGCAGGACGCACGGGAGAACAGGCGCCCTCCAGCCCACCGCGCCGCGTG
CAGGCACGCATGCTGAGCGCCAGCACCATGCTGGTGCAGTGGGAGCCTCCCGAGGAGCCC
AACGGCCTGGTGCAGGGATACCGCGTCTACTATACTCCGACTCCCGCCGCCCCCGAAC
GCCTGGCACAAGCACAACACCGACGCGGGGCTCCTCACGACCGTGGGCAGCCTGTGCCT
GGCATCACCTACAGCCTGCGCGTGTGCTTACCGCCGTGGGCGATGGCCCTCCAGC

```



[View online »](#)

CCCACCATCCAGGTCAAGACGCAGCAGGGAGTGCCTGCCAGCCCGGGACTTCCAGGCC
 GAGGTGGAGTCGGACACCAGGATCCAGCTCTCGTGGTGTGCCCTCAGGAGCGGATC
 ATCATGTATGAAGTGGTGTACTGGGCGGCAGAGGACGAAGACCAACAGCACAAGTGACC
 TTCGACCAACCTCCTCTACACACTAGAGGACCTGAAGCCTGACACACTCTACCCTTC
 CAGCTGGCTGCACGCTCGGATATGGGGTGGCGTCTTACCCCCACCATTGAGGCCCCG
 ACAGCCAGTCCACCCCTCCGCCCTCCCAGAAGGTGATGTGTGTGAGCATGGGCTCC
 ACCACGGTCCGGTAAGTTGGTCCCGCCTGCCGACAGCCGAACGGCGTTATCACC
 CAGTACTCCGTGGCTACGAGGCGGTGGACGGCGAGGACCGCGGCGCATGTGGTGGAT
 GGCATCAGCCGTGAGCACTCCAGCTGGGACCTGGTGGCCTGGAGAAGTGACGGAGTAC
 CGGGTGTGGTGCGGGCACACACAGACGTGGGCCCGGCCCGAGAGCAGCCGGTGTG
 GTGCGCACCGATGAGGACGTGCCAGCGGGCTCCGCGGAAGGTGGAGGTGGAGCCACTG
 AACTCCACTGCTGTGCATGTCTACTGGAAGCTGCCTGTCCCAGCAAGCAGCATGGCCAG
 ATCCGCGCTACCAGGTACCTACGTGCGGCTGGAGAATGGCGAGCCCCGTGGACTCCCC
 ATCATCAAGACGTCATGCTAGCCGAGGCCAGGAACTACTATCAGCGCCTGACCCCG
 GAGACCACCTACTCCGTTACTGTTGCTGCCTATACCACCAAGGGGGATGGTGCCCGCAGC
 AAGCCAAAATTGCACTACAACAGGTGAGTCCAGGCCGGCCACCATTGATGATCAGC
 ACCACGGCCATGAACACTGCGCTGCTCCAGTGGCACCCACCAAGGAACTGCCTGGCGAG
 CTGCTGGGCTACCGGCTGCAGTACTGCCGGCCGACGAGGCGCGGCCAACACCATAGAT
 TTCGGCAAGGATGACCAGCACTTACAGTACCAGGCTGCACAAGGGGACCACCTACATC
 TTCCGGCTTGCTGCCAAGAACCAGGGCTGGCTTGGGTGAGGAGTTCGAGAAGGAGATCAGG
 ACCCCCGAGGACCTGCCAGCGGCTTCCCCAAAACCTGCATGTGACAGGACTGACCACG
 TCTACCACAGAAGTGGCTGGGACCCCGCAGTGTGGCGGAGAGGAACGGGCGCATCATC
 AGCTACACCGTGGTGTCCGAGACATCAACAGCCAACAGGAGCTGCAGAACATCAGCACA
 GACACCCGCTTTACCCTTACTGGCCTCAAGCCAGACACCACTTACGACATCAAGGTCCGC
 GCATGGACCAGCAAAGGCTCTGGCCACTCAGCCCAAGCATCCAGTCCCGACCATGCCG
 GTGGAGCAAGTGTGGCAAGAACTTCCGGGTGGCGGCTGCAATGAAGACGTCTGTGCTG
 CTCAGCTGGGAGGTTCCCGACTCCTATAAGTCAGCTGTGCCCTTAAAGATTCTGTACAA
 TGGGAGAGTGTGGAGGTGGACGGGCACTCGATGCGGAAGCTGATCGCAGACCTGCAGCCC
 AACACAGAGTACTCGTTTGTGCTGATGAACCGTGGCAGCAGCGCAGGGGGCTGCAGCAC
 CTGGTGTCCATCCGCACAGCCCCGACCTCCTGCCTCACAAGCCGCTGCCTGCCTCTGCC
 TACATAGAGGACGCGCTTCGATCTCTCCATGCCCATGTGCAAGACCCTCGTTGTG
 AGGTGGTTCTACATTGTTGTGGTGGCCATTGACCGTGTGGGCGGAGCATTGTCAGGCCA
 AGGTGGAGCACACCCGAGGAACTGGAGCTGGACGAGCTTCTAGAAGCCATCGAGCAAGGC
 GGAGAGGAGCAGCGGCGGCGGCGGCGGAGGAGCAGAACGCTGAAGCCATATGTGGCTGCT
 CAACTGGATGTGCTCCCGGAGACCTTACCTTGGGGGACAAGAAGAACTACCGGGGCTTC
 TACAACCGGCCCTGTCTCCGGACTTGAGCTACCAGTGTCTTGTGCTTGCCTCCTGAAG
 GAACCCATGGACCAGAAGCGCTATGCCTCCAGCCCCTACTCGGATGAGATCGTGGTCCAG
 GTGACACCAGCCCAGCAGCAGGAGGAGCCGAGATGCTGTGGGTGACGGGTCCTGTGCTG
 GCAGTCACTCATCCTCATTGTGTCATCGCCATCCTTGTGTTAAAAGGAAAAGGACC
 CACTCTCCGTCCTTAAGGATGAGCAGTCGATCGGACTGAAGGACTCCTTGTGCGCCAC
 TCTCTGACCCTGTGGAGATGCGGAGGCTCAACTACCAGACCCCAAGTATGCGAGACCAC
 CCACCCATCCCCATACCGACCTGGCGGACAACATCGAGCGCCTCAAAGCCAACGATGGC
 CTCAAGTTCTCCAGGAGTATGAGTCCATCGACCTGGACAGCAGTTCACGTGGGAGAAT
 TCAAACCTGGAGGTGAACAAGCCCAAGAACCGCTATGCGAATGTCATCGCCTACGACCAC
 TCTCGAGTCATCCTTACCTCTATCGATGGCGTCCCGGGAGTGACTACATCAATGCCAAC
 TACATCGATGGTACCGCAAGCAGAATGCCTACACCGCCACGCAGGGCCCCCTGCCCGAG
 ACCATGGGTGATTTCTGGAGGATGGTGTGGGAACAGCGCACGGCCACTGTGGTCATGATG
 ACACGGCTGGAGGAGAAGTCCCGGGTAAAATGTGATCAGTACTGCCAGCCCGTGGCACC
 GAGACCTGTGGCCTTATTCAGGTGACCCTGTTGGACACAGTGGAGCTGGCCACATACACT
 GTGCGCACCTTCGCACTCCACAAGAGTGGCTCCAGTGAGAAGCGCGAGCTGCGTCAGTTT
 CAGTTCATGGCCTGGCCAGACCATGGAGTTCCTGAGTACCCAACCTCCATCCTGGCCTTC
 CTACGACGGGTCAAGGCCTGCAACCCCTAGACGCAGGGCCATGGTGGTGCAGTGCAGC

GCGGGCGTGGGCCGACCGGCTGCTTCATCGTGATTGATGCCATGTTGGAGCGGATGAAG
 CACGAGAAGACGGTGGACATCTATGGCCACGTGACCTGCATGCGATCACAGAGGAACCTAC
 ATGGTGCAGACGGAGGACCAGTACGTGTTCCATCCATGAGGCGCTGCTGGAGGCTGCCACG
 TGGCGCCACACAGAGGTGCCTGCCCGCAACCTGTATGCCACATCCAGAAGCTGGGCCAA
 GTGCCCTCAGGGGAGAGTGTGACCGCCATGGAGCTCGAGTTCAAGTTGCTGGCCAGCTCC
 AAGGCCACACGTCCCGCTTTCATCAGCGCCAACCTGCCCTGCAACAAGTTCAAGAACCGG
 CTGGTGAACATCATGCCCTACGAATTGACCCGTGTGTGTCTGCAGCCCATCCGTGGTGTG
 GAGGGCTCTGACTACATCAATGCCAGCTTCTGGATGGTTATAGACAGCAGAAGGCCTAC
 ATAGCTACACAGGGCCCTCTGGCAGAGACACCGAGGACTTCTGGCGCATGCTATGGGAG
 CACAATCCACCATCATCGTCATGCTGACCAAGCTTCGGGAGATGGGCAGGGAGAATGC
 CACCAGTACTGGCCAGCAGAGCGCTCTGCTCGCTACCAGTACTTTGTTGTTGACCCGATG
 GCTGAGTACAACATGCCCCAGTATATCCTGCGTGAGTTCAAGGTCACGGATGCCCGGAT
 GGGCAGTCAAGGACAATCCGGCAGTTCAGTTCACAGACTGGCCAGAGCAGGGCGTGCC
 AAGACAGGCGAGGGATTCAATTGACTTCATCGGGCAGGTGCATAAGACCAAGGAGCAGTTT
 GGACAGGATGGGCTATCAGGTGCACTGCAGTCTGGCGTGGGCCGACCGGGGTGTT
 ATCACTCTGAGCATCGTCTGGAGCGCATGCGCTACGAGGGCGTGGTCCGATGTTTCAG
 ACCGTGAAGACCTGCGTACACAGCGTCTGCCATGGTGCAGACAGAGGACCAGTATCAG
 CTGTGCTACCGTGGCCCTGGAGTACCTCGGCAGCTTTGACCACTATGCAACGTAA

Clone variation with respect to NM_130440.2
 4235 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_130440 unedited
 GATCTGGTACCGTCCGGAATCCCGGGATATCGTCGACCCACGCGTCCGGCGGTGGCGG
 CGGCAGAGGCGGGCTCCAGCTTCGGTCCGGCTCGGGCTCGGGCTCCGGCTCCGGCTC
 CGGCTCCGGCTCCAGCTCGGGTGGCGGTGGCGGGAGCGGGACCAGGTGGAGGCGGGCGG
 GCAGAGGAGTGGGAGCAGCGGCCCTAGCGGCTTGGCGGGGGACATGCGGACCGACGGCCC
 CTGGATAGGCGGAAGGAGTGGAGGCCCTGGTGGCCGGCCCTTGGTGTGAGTATCCAGCA
 AGAGTGACCGGGTGAAGAAGCAAAGACTCGGTTGATTGTCTGGGCTGTGGCTGGCTGT
 GGAGCTAGAGCCCTGGATGGCCCTGAGCCAGCCAGGGAGGACGATGGTGGCCCTTGT
 GCCTGCAGTGGTGTGCTTGGTTTGGTGGCAGGCGCCCATGGTGCAGCAAACCTGTCTT
 CATTAAAGTCCCTGAGGACCAGACTGGGCTGTCAGGAGGGGTAGCCTCCTTCGTGTGCCA
 AGCTACAGGAGAACCAAGCCGCGCATCACATGGATGAAGAAGGGGAAGAAAGTCAGCTC
 CCAGCGCTTCGAGGTCATTGAGTTTGTATGATGGGGCAGGGTCAGTCTTCGGATCCAGCC
 ATTGCGGGTGCAGCGAGATGAAGCCATCTATGAGTGTACAGCTACTAACAGCCTGNGTGA
 GATCAACACTAGTGCCAAGCTCTCAGTGTCTGAAGAGAACAGCTGCCCCCTGGGTCCCT
 TCCATCGACAT

Restriction Sites:

Please inquire

ACCN:

NM_130440

Insert Size:

7700 bp

OTI Disclaimer:

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).

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_130440.1](#), [NP_569707.1](#)

RefSeq Size: 7691 bp

RefSeq ORF: 5667 bp

Locus ID: 5792

UniProt ID: [P10586](#)

Cytogenetics: 1p34.2

Domains: Y_phosphatase, ig, PTPc_motif, IGc2, IG, FN3

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Adherens junction, Cell adhesion molecules (CAMs), Insulin signaling pathway

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was shown to function in the regulation of epithelial cell-cell contacts at adherents junctions, as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than 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.