

Product datasheet for **SC112174**

Adiponectin Receptor 2 (ADIPOR2) (NM_024551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin Receptor 2 (ADIPOR2) (NM_024551) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adiponectin Receptor 2
Synonyms:	ACDCR2; PAQR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_024551 edited

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CGACGGGCTCCGGGATCAACTACTATCCTGAAGGTCCATTCTCCCAAGAAGAGGGGACA
GAAAGACAGATCTATTTGTAAGAAAGGCTTGGGTATCCCATGAACGAGCCAACAGAAAAC
CGATTGGGGTGCAGCAGGACTCCAGAGCCAGATATAAGGCTCAGAAAAGGGCACCAACTG
GATGGTACACGAAGAGGTGATAATGACAGCCACCAAGGAGATTTGGAGCCATTTTAGAG
GCATCTGTTCTATCTTCCCATCATAAAAAAGCTCTGAGGAACATGAATACAGTGATGAA
GCTCCTCAGGAAGATGAGGGCTTTATGGGCATGTCCCCTCTTTACAAGCCCATCATGCT
ATGGAAAAAATGGAAGAATTTGTTTGTAAAGGTATGGGAAGGTCGGTGGCGAGTGATCCCT
CATGATGTACTACCAGACTGGCTCAAGGATAATGACTTCTCTTGCATGGACACCGGCT
CCTATGCCTTCTTCCGGGCTGTTTTAAGAGCATTTTCAGAATACACACAGAAACAGGC
AACATTTGGACACATCTCTTAGGTTGTGTATTCTTCTGTGCCTGGGGATCTTTTATATG
TTTCGCCCAAATATCTCCTTTGTGGCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATTT
TTCTTAGGAGCCATTCTCGCTTTCTTTTTCATGGCTTCCACACAGTCTACTGCCAC
TCAGAGGGGGTCTCTCGGCTTCTCTAAACTGGATTACTCTGGTATTGCTCTTCTGATT
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AACCTCCAGGAGTTTCGTTTCATGATCGGCGGGGGCTGCAGTGAAGAGGATGCACTGTGA
TACCTACCAGTCTCCAGGACTATGACCCTAAACCAGGGCCTGCGGCACCTGCGGGCCTC
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TCATAAAAAAGCTCTGAGGAACATGAATACAGTATGAAGCTCCTCAGGAAGATGAGGG
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GCACTATGTCATCTCGGAGGGTTCCTTAAGGCCGCCACCATAGGCAGATAGGCTGGTT
GATGCTGATGGCCAGCCTCTACATCACAGGAGTGCCTGTATGCTGCCCGGATCCCCGA
ACGCTTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCTCATCAGTGTTCATATCTT
TGTGGTTGCTGGAGCTTTTGTTCACCTCCATGGTGTCTCAAACCTCCAGGAGTTTCGTTT
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CTATGACCCTAAACCAGGGCCTGCGGCACCTGCGGGCCTCCCTGCTGGCTACTGATGCCA
GTACCAGAGGAGCCCAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_024551 unedited CACGAGCCCCCTCCTCCCCCTCCCCTCAGCGTGGCTCCCAAAAAGTCCGAGACACGGG GTGAGGCGGCGACGGGCTCCGGGATCAACTCACTATCCTGAAGGTCCATTCTCCCAAGAA GAGGGGACAGAAAGACAGATCTATTTGTAAGAAAGGCTTGGGTATCCCATGAACGAGCCA ACAGAAAACCGATTGGGGTGCAGCAGGACTCCAGAGCCAGATATAAGGCTCAGAAAAGGG CACCAACTGGATGGTACACGAAGAGGTGATAATGACAGCCACCAAGGAGATTTGGAGCCC ATTTTAGAGGCATCTGTTCTATCTTCCCATCATAAAAAAAGCTCTGAGGAACATGAATAC AGTGATGAAGCTCCTCAGGAAGATGAGGGCTTTATGGGCATGTCCCTCTTACAAAGCC CATCATGCTATGAAAAAATGGAAGAATTTGTTTGAAGGTATGGGAAGGTGCGTGGCGA GTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGATAATGACTTCCTCTTGATGGA CACCGGCTCCTATGCCTTCTTCCGGGCTGTTTAAAGAGCATTTTCAGAATACACACA GAAACAGGCAACATTTGGACACATCTCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_024551 unedited AGCTTGACGCGCCGCATCTATGATCGTTTTTTTTTTTTTTTTTTTTTAAATATTTTCATT AGTTTCTTTTTATTAGAACTGAGATACAGCAAGTAGNGAAATCCACATCAATGGAAC CATCACACAGATGCCTTCTGGAACCCCAACCTTCTATGATCCCCAAAAATGTGCTTTGT GGCTTTAGCATAATTTATAAAGGGGAAGAGGGAAAATACTGAAAAAGGCCACTATTTAAT GGTGAAGAATGAAGCTGTAGAGGTCCCAACCAGCCTAGGGCCAAAAAAGAAAATTAATA ATCTGCACAGAGCAAGCAAGCCTCTGACTGCTGAGAGTAAGGCATTGAGGCGCAACCTG GTGAGAGTTCTCAGCGAGCACTGTGAGGTCAAGTGCACATGAGGCTGTTGGTAGTGAGCT GCACGTATACACACATAGAAATGGGCACATGCCACATACACACCCGAAAAAGGGAGA TTTTACTGGATTACACATCAGTATGTTAATTTCATTTTTCTAAGGGTTTGAGCTATGT TGAACCAATCCTTCCAGCTTTGGGGTGTGGGTGACTGCACCCAGAGGCTGCTACTTCTG TTGGTGTGAGACAGGGCTGCACCTATACGCTGTATCCCAAAGTGCATGACCGAAGAGCA AGTCTGGCTTCTGATACGTGCTGTTGCTCCCAAGAACTAAGTGGGCTTCTGTCCAAATG GACACTGTCTGTGGACTATAGCTTCTCAAAGGGATTAATACTGTTCTTTATTCTGTAA AGCACTGCACCATTTTATCCACTGAGTCTTTGCTCGGGCCACCTTACCACCTAGGACAG TGACCCATCCAGAACCAAAACGTTAAAGTTCTTCTCACTTCTACACTGGATTTCTTTT TTTCTAAATCCCACCCTTNGCTTGAAGATTGCAAGGGCCAGGGAAGGAATATAACTGAGA AACTCCTCTGGAATAACTAGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_024551
Insert Size:	5300 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_024551.2.
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:	<ol style="list-style-type: none">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_024551.2 , NP_078827.2
RefSeq Size:	3982 bp
RefSeq ORF:	1161 bp
Locus ID:	79602
UniProt ID:	Q86V24
Cytogenetics:	12p13.33
Domains:	UPF0073
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway
Gene Summary:	The adiponectin receptors, ADIPOR1 (MIM 607945) and ADIPOR2, serve as receptors for globular and full-length adiponectin (MIM 605441) and mediate increased AMPK (see MIM 602739) and PPAR-alpha (PPARA; MIM 170998) ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin (Yamauchi et al., 2003 [PubMed 12802337]).[supplied by OMIM, Mar 2008]