

## Product datasheet for **SC118901**

### Endothelin A Receptor (EDNRA) (NM\_001957) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin A Receptor (EDNRA) (NM_001957) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endothelin A Receptor
Synonyms:	ET-A; ETA; ETA-R; ETAR; ETRA; hET-AR; MFDA
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:**

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>OriGene sequence for NM_001957 edited
GAATTCGGCACGAGGGTCTGACGATTGTGGAGAGGCGGTGGAGAGGCTTCATCCATCCCA
CCCCGTCGTCGCCGGGATTGGGGTCCCAGCGAGACCTCCCCGGGAGAAGCAGTGCCAG
GAGGTTTTCTGAAGCCGGGAAGCTGTGCAGCCGAAGCCGCCGCCGCGCCGGAGCCCGG
ACACCGGCCACCTCCGCGCCACCCACCCTCGCCGGCTCCGGCTTCTCTGGCCAGGCG
CCGCGCGGACCCGGCAGCTGTCTGCGCACGCCGAGCTCCACGGTAAAAAAGTGAAGG
TGTAAGCAGCACAAGTGAATAAGAGATATTTCTCAATTTGCCTCAAGATGGAAC
CCTTTGCCTCAGGCATCCTTTTGGCTGGCACTGGTTGGATGTGAATCAGTGATAATCC
TGAGAGATACAGCACAATCTAAGCAATCATGTGGATGATTTACCACATTTTCGTGGCAC
AGAGCTCAGTTCCTGGTTACCACTCATCAACCCACTAATTTGGTCTACCCAGCAATGG
CTCAATGCACAATATTGCCACAGCAGACTAAAATTACTTCAGCTTTCAAATACATTAA
CACTGTGATATCTGTACTATTTTCATCGTGGGAATGGTGGGAATGCAACTCTGCTCAG
GATCATTTACCAGAACAAATGTATGAGGAATGGCCCAACGCGCTGATAGCCAGTCTTGC
CCTTGGAGACCTTATCTATGTGGTCATTGATCTCCCTATCAATGTATTTAAGCTGCTGGC
TGGGCGTGGCCTTTTGATCACAATGACTTTGGCGTATTTCTTTGCAAGCTGTTCCCTT
TTTGCAGAAGTCCTCGGTGGGGATCACCGTCTCAACCTCTGCGCTTCTAGTGTGACAG
GTACAGAGCAGTTGCCTCCTGGAGTCGTGTTCCAGGAATTGGGATTCTTTGGTAACTGC
CATTGAAATTGTCTCCATCTGGATCCTGTCTTTATCCTGGCCATTCTGAAGCGATTGG
CTTCGTCATGGTACCCTTTGAATATAGGGTGAACAGCATAAAACCTGTATGCTCAATGC
CACATCAAAATTCATGGAGTTCTACCAAGATGTAAGGACTGGTGGCTCTTCGGTTCTA
TTTCTGTATGCCCTTGGTGTGCACTGCGATCTTCTACACCCTCATGACTGTGAGATGTT
GAACAGAAGGAATGGCAGCTTGAGAATTGCCCTCAGTGAACATCTTAAGCAGCGTCGAGA
AGTGGCAAAAACAGTTTTCTGCTTGGTTGTAATTTTGTCTTTTGTGCTTCCCTCTTCA
TTTAAGCCGTATATTGAAGAAAAGTGTGATAACGAGATGGACAAGAACCAGATGTAATT
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GGACAGCATGAACTGACCACCCTTAGAAGCACTCCTCGGTACTCCATAATCCTCTCGGA
GAAAAAATCACAAAGCAACTGTGAGTCCGGGAATCTCTTCTCTGATCCTTCTCCTTAA
TTCACTCCACACCCAAGAAGAAATGCTTTCCAAAACCGCAAGGGTAGACTGGTTTATCC
ACCCACAACATCTACGAATCGTACTTCTTTAATTGATCTAATTTACATATTCTGCGTGTT
GTATTCAGCACTAAAAATGGTGGGAGCTGGGGGAGAATGAAGACTGTTAAATGAAACCA
GAAGGATATTTACTACTTTTGCATGAAAATAGAGCTTTCAAGTACATGGCTAGCTTTTAT
GGCAGTTCTGGTGAATGTTCAATGGGAAGTGGTACCATGAACTTTAGAGATTAACGAC
AAGATTTTCTACTTTTTTAAAGTATTTTTTGTCTTCCAGCCAAACACAATATGGGCTC
AAGTCACTTTTATTTGAAATGTCATTTGGTGCCAGTATTTTTTAACTGCATAATAGCCT
AACATGATATTTGAACTATTTACACXXXXXXXXXXXXXXXXXXXXXCTCGAC
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001957 unedited  
 GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCTGACGATTGTGGAGA  
 GGCGGTGGAGAGGCTTCATCCATCCCACCCGGTCGTCGCCGGGATTGGGGTCCCAGCGA  
 GACCTCCCGGGGAGAAGCAGTGCCACAGGAGTTTTCTGAAGCCGGGAAGCTGTGCAGCC  
 GAAGCCCGCCGCGCCGGAGCCCGGACACCGCCACCCTCCGCGCCACCCACCCTCGC  
 CGGCTCCGGCTTCTCTGGCCAGGCGCCGCGGACCCGGCAGCTGTCTGCGCACGCCG  
 AGCTCCACGGTGAAAAAAGTGAAGGTGTAAGCAGCACAAGTGAATGAAGAGATATT  
 TCCTCAAATTTGCCTCAAGATGGAAACCCTTTGCCTCAGGGCATCCTTTTGGCTGGCACT  
 GGTGGATGTGTAATCAGTGATAATCCTGAGAGATACAGCACAAATCTAAGCAATCATGT  
 GGATGATTTACCACTTTTCGTGGCACAGAGCTCAGCTTCTGGTTACCACTCATCAACC  
 CACTAATTTGGTCTACCAGCAATGGCTCAATGCACAATATTGCCACAGCAGACTAA  
 AATTACTTCAGCTTTCAAATACATTAACACTGTGATATCTGTACTATCCTCATCGTGGG  
 AATGGTGGTGAATGCAACTCTGCTCAGGATCATTTACCAGAACACATGTATGAGGAATGG  
 CCCAACGCGCTGGATACAGTCTTGCCCTTGGAGACCTTATCTATGCGGCCATTGATCT  
 CCCTATCAATGTATCTAAGCTGTGGGCTGGCCGCTGGGCCTTTTGATCACAATGACTTT  
 TGCCGTATTTCTAGCAGGCTGGTTCGCCCTTTTGACACAAGTCCCTGTGGGGGATCACC  
 GGTCCACCTCTGCGCTCTTAGTGTNGACAGGACAANACCAATTGCCTCCTGCAGTC  
 GCGGTTAGGGAATTGGGATTCTTNTGTAAGTGCCTCGAATCGCCTCCATTGCACCTGTT  
 TTTTCTGGCCTTCTGAGCANGGCTNTGAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001957 unedited  
 NTTTAGCTCTGNACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGGTCTGGAAACTTTTATTTTACAC  
 TTATGGGCCACTGCCAACTCAGGGCCTTGGTTTTTGGCTCATTTTTACAAAGTTACTTGT  
 TGAAAAATGTAATAAAGGTAAAAATTGGAAATTTTCTGCTAGTAAACCACAGTACTT  
 ACCAGTCCATAAAATAAATGCCCCGTTGACCCCTTCAAAAATCTATGACTTTTTGAATTTA  
 TAAAAGGCATTTTTTTCATATGAAAAAACAAGCCTTTTGAAAAAACAATTTGCTA  
 AACAAAAGGGGGGAACCTATGGCTTATATTATAGGCATATATCACTGCATATGATGCC  
 CAGGGGAATAATAAATTTGACTGCTAACACACAAAAGGCAGTACTTTTTAACCTTGCAA  
 TTCAAGCAACTGGAACCTGATGTTATTTTACCTGGCCTAAAATATGGCCCAACAATTA  
 CTTACCTAATTTATTATACCAATCTGTCTGGCGAAGTCTGAAAAAATATCAAACAACC  
 TGGCAATTTTCATCCCACTTGAATTGGGGATAAAAAAATTTAATTTCTCAAAGGTAA  
 TGACTTTTGTCCACCCAGGAAACAATTTGACCCAAATACTGCTTTTTTAAACCAACC  
 AACCAACAACAACCTATATTGTTAGTCCACAGCTCATCTGTTTTTACCCTGCCTTTTAA  
 TCCATTGTGAATGGGACCCTGATACCAGATTTTGAATGCCAAAGGTTGCTACACTTTAA  
 AATGGCCCTGAGCCGTTGTCTTGATGAACATCCCCTTAAATTTACTCAAACCTTTGCCCT  
 GTGGCACAACTGCGGNGCCCAATTTTNAATATAAATAAACCCCTCTCCTCCCTNCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001957

**Insert Size:**

4290 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).

<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>	<u><a href="#">NM_001957.1</a></u> , <u><a href="#">NP_001948.1</a></u>
<b>RefSeq Size:</b>	4105 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	1909
<b>UniProt ID:</b>	<u><a href="#">P25101</a></u>
<b>Cytogenetics:</b>	4q31.22-q31.23
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
<b>Gene Summary:</b>	<p>This gene encodes the receptor for endothelin-1, a peptide that plays a role in potent and long-lasting vasoconstriction. This receptor associates with guanine-nucleotide-binding (G) proteins, and this coupling activates a phosphatidylinositol-calcium second messenger system. Polymorphisms in this gene have been linked to migraine headache resistance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1, also known as ET-AR) represents the longest transcript and encodes the longer isoform (a). 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.</p>