

Product datasheet for **SC123888**

Mineralocorticoid Receptor (NR3C2) (NM_000901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mineralocorticoid Receptor (NR3C2) (NM_000901) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mineralocorticoid Receptor
Synonyms:	MCR; MLR; MR; NR3C2VIT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

GAATTCGGCACCAGTTCCTCCCTCCCGCCCGCCAGCCTCCCCACCATGTCCTAGAAAAGCGATGGAGACC
 AAAGGCTACCACAGTCTCCCTGAAGGTCTAGATATGAAAAGACGGTGGGGTCAAGTTTCTCAGGCTGTG
 GAGCGTTCTTCCCTGGGACCTACAGAGAGGACCGATGAGAATAACTACATGGAGATTGTCAACGTAAGC
 TGTGTTCCCGTGCTATTCCAAACAACAGTACTCAAGGAAGCAGCAAAGAAAAACAAGAATACTCCCT
 TGCCTTCAGCAAGACAATAATCGGCCTGGGATTTAACATCTGATTTAAAAGTACTGAGCTGGAATCTAAG
 GAACTTTCAGCAACTGTAGTCCAGTCCATGGGTTTATATATGGATTCTGTAAGAGATGCTGACTATTCC
 TATGAGCAGCAGAACCAACAAGGAAGCATGAGTCCAGCTAAGATTTATCAGAATGTTGAACAGCTGGTG
 AAATTTTACAAAAGGAAATGGCCATCGTCCCTCCACTCTAAGTTGTGTAACACGCCCTTGAGATCATTT
 ATGTCTGACTCTGGGAGCTCCGTGAATGGTGGCGTCATGCGCGCCGTTGTTAAAAGCCCTATCATGTGT
 CATGAGAAAAGCCGCTGTGTTGCAGCCCTCTGAACATGACATCTTCGGTTTGCAGCCCTGCTGGAATC
 AACTCTGTGCTCCACCACAGCCAGCTTTGGCAGTTTCCAGTGCACAGCCCAATCACCAGGGAAC
 CCTCTGACATGCTCCCTAATGTTGAAAATCGAGGCTCCAGGTCGCACAGCCCTGCACATGCTAGCAAT
 GTGGGCTCTCCTCTCAAGTCCGTTAAGTAGCATGAAATCCTCAATTTCCAGCCCTCAAGTACTGC
 AGTGTAAAATCTCCAGTCTCCAGTCCCAATAATGTCACCTGAGATCCTCTGTGTCTAGCCCTGCAAT
 ATTAACAACCTCAAGGTGCTCTGTTTCCAGCCCTCGAACACTAATAACAGATCCAGCTTTCCAGTCCG
 GCAGCCAGTACTGTGGGATCTATCTGTAGCCCTGTAACAATGCCTTCAGCTACACTGCTTCTGGCACC
 TCTGTGGATCCAGTACATTGCGGGATGTGGTCCAGTCCAGACACGCAGGAGAAAAGGTGCTCAAGAG
 GTCCTTTTCTAAGACTGAGGAAGTAGAGAGTGCCATCTCAAATGGTGTGACTGGCCAGCTTAATATT
 GTCCAGTACATAAAAACGAGAACCAGATGGAGCTTTTAGCAGCTCATGTCTAGGAGGAAAATAGCAAAA
 AATTCGGATTCTTCAATCTCAGTACCAATAAAGCAAGAATCAACCAAGCATTATGTTCCAGGCACCTCT
 TTTAAAGGGAATCCAACAGTAAACCCGTTTCCATTTATGGATGGCTCGTATTTTCTTTATGGATGAT
 AAAGACTATTATCCCTATCAGGAATTTAGGACCACCTGTGCCGGCTTTGATGGTAACTGTGAAGGC
 AGCGGATCCCAGTGGGATTAACAAGAACCAGATGATGGGAGCTATTACCCAGAGGCCACCTCCCT
 TCCTCTGCTATTGTTGGGGTGAATTCAGGTGGACAGTCCCTCCACTACAGGATTGGTGTCAAGGTACA
 ATATCTTTATCAGCATCGGCTAGAGACCAATCTTCCAACACCTGAGTTCCTTCTCCTGTCAATACT
 TTAGTGGAGTCATGAAAATCACACGGCGACCTGTCGTCTAGAAGAAGTATGGGTATCCGGTCTTAGAA
 TACATTCCAGAAAATGTATCAAGCTCTACTTTACGAAGTGTCTACTGGATCTTCAAGACCTTCAAAA
 ATATGTTTGGTGTGTGGGATGAGGCTTCCAGTATGCCATTATGGGGTAGTACCTGTGGCAGCTGCAAA
 GTTTTCTTCAAAAGAGCAGTGAAGGGCAACAACTATTTATGTGCTGGAAGAAATGATTGCATCATT
 GATAAGATTGACGAAAGAATTGCTGCTTGCAGACTCAGAAATGTCTTCAAGCTGGAATGAATTTA
 GGAGCACGAAAGTCAAAGAAGTTGGGAAAGTTAAAAGGGATTACGAGGAGCAGCCACAGCAGCAGCAG
 CCCCCACCCACCCCGCAAAGCCAGAGGAAGGGACAACGTACATCGCTCCTGCAAAAAGAA
 CCCTCGGTCAACACAGCACTGGTTCCTCAGCTCTCCACAATCTCACGAGCGCTCACACCTTCCCGGTT
 ATGGTCTTGAACATTGAACCTGAAATGTATATGCAGGCTATGACAGCTCAAAACAGATACAGCC
 GAAAATCTGCTCTCCACGCTCAACCGCTTAGCAGGCAACAGATGATCCAAGTCGTGAAGTGGGCAAG
 GTACTTCCAGGATTTAAAAGTTCCTCTTGGAGACCAATACCTAATCCAGTATTCTTGATGTGT
 CTATCATCATTGCTTGGAGCTGGAGATCGTACAAACATACGAACAGCCAATTTCTCTATTTTGCACCA
 GACCTAGTCTTTAATGAAGAGAAGATGCATCAGTCTGCCATGTATGAACTATGCCAGGGGATGCACCA
 ATCAGCCTTCAGTTCGTTTCGACTGCAGCTCACCTTTGAAGAATACACCATCATGAAAGTTTTGCTGCTA
 CTAAGCACAATTCAAAAGGATGGCCTCAAAGCCAGGCTGCATTTGAAGAATGAGGACAATACATC
 AAAGAAGTGAAGGAAGTGGTAACTAAGTGTCCCAACAATCTGGGCAGAGCTGGCAGAGGTTCTACCAA
 CTGACCAAGTGTGACTCCATGCATGACCTGGTGGAGCAGCTGCTGGAATTTGCTTCTACACCTTC
 CGAGAGTCCCATGCGCTGAAGGTAGAGTTCGCCGAATGCTGGTGGAGATCATCAGCAGCAGCTGCC
 AAGGTGGAGTCGGGGAACGCCAAGCCGCTACTTCCACCGAAGTACTGCCCCTGCCAGAAGAAC
 TTTGCCTAAGTTTCCCTGTGTTGTTCCACACCCAGAAGGCCAAGAAAACCTGTTTTAACATGTGA
 TGGTTGATTC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000901 unedited ATAGGGCGGCCGGAATTCGGCACCAGTCCCCTTCCCCCGCCCCAGCCTCCCCACCATG TCCTAGAAAAGCGATGGAGACCAAAGGCTACCACAGTCTCCCTGAAGGTCTAGATATGGA AAGACGGTGGGGTCAAGTTTCTCAGGCTGTGGAGCGTTCTTCCCTGGGACCTACAGAGAG GACCGATGAGAATAACTACATGGAGATTGTCAACGTAAGCTGTGTTCCGGTGTATTCC AAACAACAGTACTCAAGGAAGCAGCAAAGAAAAACAAGAACTACTCCCTTGCCTTCAGCA AGACAATAATCGGCCTGGGATTTTAACATCTGATATTAATAACTGAGCTGGAATCTAAGGA ACTTTCAGCAACTGTAGCTGAGTCCATGGGTTTATATATGGATTCTGTAAGAGATGCTGA CTATTCCTATGAGCAGCAGAACCAAGGAAGCATGAGTCCAGCTAAGATTTATCAGAA TGTTGAACAGCTGGTGAATTTTACAAAGGAAATGGCCATCGTCTTCCACTCTAAGTTG TGTGAACACGCCCTTGAGATCATTTATGTCTGACTCTGGGAGCTCCGTGAATGGTGGCGT CATGCGCGCCGTTGTTAAAAGCCCTATCATGTGCATGAGAAAAGCCGCTCTGTTTGCAG CCCTCTGAACATGACATCTTCGGTTTGCAGCCCTGCTGGAATCAACTCTGTGCTCCAC CACAGCCAGCTTTGGCAGTTCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000901 unedited GGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTAAAGTAAAGGA TTTATTGTAATCTGCTTACAGTCTTTGCAAAGACAGACATATGTTTTTGCATAAAGATA TAAATTGCTTCATTTAACTAATTTAGTGTTTTTTTAAATTATATGAATTTTGGTGAA TTATGAACTGTACAAACCAAGATTTTTAAGAGCAATATGGTACAAAAAATAGAGCAGAC AGACAATTTGGACTGGGACAGGCATTCAACAGTGAATTTAGAATATGGCTTTGCTGTTTA ATCAAGCAAAGTTACCTGGAGACACACAAGAGCCAGTAACTTTGTTAATACAAAAGCT GATGCAGACCATCTCCATCCCAAACCTGGTTAAGTAAGTCAGAATTTCCATTTTAAAAA ACTAAGTCTGAACTAAAAGCTGCTTTTGTAAAGTAAGCCATTTGTTTGTAGCAACTCCCA GTCTGCATGCTGTGATTTATTACCTTCAAAGTGTGGCTTTCATATTACTGTGCACCGTA AGTTGACTGTATTTAAAGATCTGCCTATAAATTAATTCCTGAAATTGCAAATTATGTAA GAAAACTCCTCCCTCTGAGTGCAGCTTTCACAGGTTTCCCCTTGATAAGGCAGGTGTC TTTTGAAGACAAGGTAATG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000901
Insert Size:	3155 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_000901.1](#)

RefSeq Size: 5749 bp

RefSeq ORF: 3155 bp

Locus ID: 4306

UniProt ID: [P08235](#)

Cytogenetics: 4q31.23

Domains: HOLI, zf-C4

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

MW: 114.9 kDa

Gene Summary: This gene encodes the mineralocorticoid receptor, which mediates aldosterone actions on salt and water balance within restricted target cells. The protein functions as a ligand-dependent transcription factor that binds to mineralocorticoid response elements in order to transactivate target genes. Mutations in this gene cause autosomal dominant pseudohypoaldosteronism type I, a disorder characterized by urinary salt wasting. Defects in this gene are also associated with early onset hypertension with severe exacerbation in pregnancy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer 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.