

Product datasheet for **RG220558**

Mineralocorticoid Receptor (NR3C2) (NM_000901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mineralocorticoid Receptor (NR3C2) (NM_000901) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR3C2
Synonyms:	MCR; MLR; MR; NR3C2VIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220558 representing NM_000901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGACCAAAGGCTACCACAGTCTCCCTGAAGTCTAGATATGGAAAGACGGTGGGGTCAAGTTTCTC
 AGGCTGTGGAGCGTTCTCCCTGGGACCTACAGAGAGGACCGATGAGAATAACTACATGGAGATTGTCAA
 CGTAAGCTGTGTTTCCGGTGCTATTCCAAACAACAGTACTCAAGGAAGCAGCAAAGAAAAACAAGAACTA
 CTCCTTGCCTTCAGCAAGACAATAATCGGCCTGGGATTTAACATCTGATATTAATAACTGAGCTGGAAT
 CTAAGGAACCTTCAGCAACTGTAGCTGAGTCCATGGGTTATATATGGATTCTGTAAGAGATGCTGACTA
 TTCCTATGAGCAGCAGAACCAACAAGGAAGCATGAGTCCAGCTAAGATTATCAGAATGTTGAACAGCTG
 GTGAAATTTTACAAGGAAATGGCCATCGTCTCCACTCTAAGTTGTGTGAACACGCCCTTGAGATCAT
 TTATGTCTGACTCTGGGAGCTCCGTGAATGGTGGCGTCATGCGCGCGTGTGTTAAAAGCCCTATCATGTG
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 AACTCTGTGTCCACCACAGCCAGCTTTGGCAGTTTTCCAGTGCACAGCCCAATCACCCAGGGAACCTC
 CTCTGACATGCTCCCCTAATGTTGAAAATCGAGGCTCCAGGTCGCACAGCCCTGCACATGCTAGCAATGT
 GGGCTCTCCTCTCAAGTCCGTTAAGTAGCATGAAATCCTCAATTTCCAGCCCTCCAAGTCACTGCAGT
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 CGCAATGCTGGTGGAGATCATCAGCGACCAGCTGCCCAAGGTGGAGTCGGGGAACCCAAGCCGCTCTAC
 TTCACCCGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220558 representing NM_000901
 Red=Cloning site Green=Tags(s)

METKGYHSLPEGLDMERRWGQVSQAVERSLGP TERTDENNYMEIVNVSCVSGAIPNNSTQGSKEKQEL
 LPCLQQDNNRPGIL TSDIKTELESKELSATVAESMGL YMDSVRDADYSYEQQNQGSMPAKIYQNVQQL
 VKFYKGNHRPSTLSCVNTPLRSFMSDSGSSVNGVMRAVVKSPIMCHEKSPSVCSPLNMTSSVCSFAGI
 NSVSSTTASFSGFPVHSPITQGTPLTCSPNVENRGRSRHSPAASNVGSPLSSPLSSMKSSISSPPSHCS
 VKSPVSSPNNVTLRSSVSSPANINNSRCSVSSPNTNRRSTLSSPAASTVGSICSPVNNAFSYTAGTSA
 GSSTLRDVVPSPTQEKGAQEVFPFKTEEVESAI SNGVTGQLNIVQYIKPEPDGAFSSSCLGGNSKINSD
 SSFSVPKIQESTKHSCSGT SFKGNPTVNPFFMDGSYFSDDDKYSLSGILGPPVPGFDGNGCEGSGFP
 VGIKQEPDDGSYPEASIPSSAIVGVNSGGQSFHYRIGAQTISLRSARDQSFQHLSSFPVNTLVESW
 KSHGDLSSRRSDGYPVLEYIPENVSSSTLRVSTGSSRPSKICLVCGDEASGCHYGVTCGCKVFFKRA
 VEGQHNYLCAGRNDCIIDKIRRNCPACRLQKCLQAGMNLGARKSKLGLKGIHEEQPQQQPPPPPPP
 PQSPEEGTTYIAPAKEPSVNTALVPQLSTISRALTPSPVMVLENIPEIIVYAGYDSSKPDTAENLLSTLN
 RLAGKQMIQVVKWAKVLPGFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKM
 HQSAMYELCQGMHQISLQFVRLQLTFEETIMKVL LLLSTIPKDGKLSQAAFEEMRTNYIKELRKMVTKC
 PNNSGQSWQRFYQLTKLLDSMHDLVSDLLEFCYTFRESHALKVEFPAMLVEIISDQLPKVESGNAKPLY
 FHRK

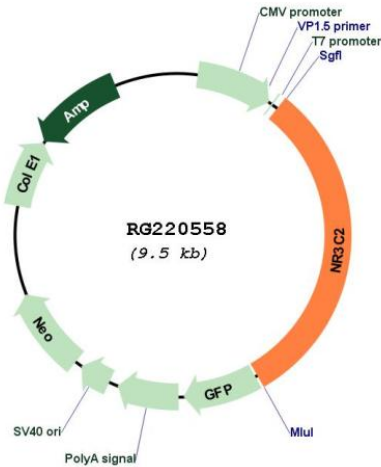
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_000901

ORF Size: 2952 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000901.5
RefSeq Size:	5749 bp
RefSeq ORF:	2955 bp
Locus ID:	4306
UniProt ID:	P08235
Cytogenetics:	4q31.23
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
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]