

Product datasheet for **RG217590**

NR5A2 (NM_205860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR5A2 (NM_205860) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR5A2
Synonyms:	B1F; B1F2; CPF; FTF; FTZ-F1; FTZ-F1beta; hB1F-2; LRH-1; LRH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217590 representing NM_205860
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTTCTAATTCAGATACTGGGGATTTACAAGAGTCTTTAAAGCACGGACTTACACCTATTGGTGCTG
 GGCTTCCGGACCGACACGGATCCCCATCCCCGCCGCGTGCCTTGTATGCTGCCCAAAGTGGAGAC
 GGAAGCCCTGGGACTGGCTCGATCGCATGGGAAACAGGGCCAGATGCCGAAAACATGCAAGTGTCTCAA
 TTTAAATGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTTTGTCCCGTGTGTGGAGATAAAGTGT
 CTGGGTACCATTATGGGCTTCTCACCTGTGAAAGCTGCAAGGGATTTTTTAAAGCGAACAGTCCAAAAATA
 TAAAAGGTACACATGTATAGAAAACCAGAACTGCCAAATTGACAAAACACAGAGAAAGCGTTGCTCTTAC
 TGTGTTTTTCAAAAATGTCTAAGTGTGGAATGAAGCTAGAAGCTGTAAAGGCGACCGAATGCGTGGAG
 GAAGGAATAAGTTTGGGCAATGTACAAGAGAGACAGGGCCCTGAAGCAACAGAAAAAGCCCTCATCCG
 AGCCAATGGACTTAAGCTAGAAGCCATGTCTCAGGTGATCCAAGCTATGCCCTGACCTGACCATTTCC
 TCTGCAATTCAAAACATCCACTCTGCCTCCAAAGGCCTACCTCTGAACCATGCTGCCTTGCCTCCTACAG
 ACTATGACAGAAGTCCCTTTGTAACATCCCCCATTAGCATGCAATGCCCCCTCACGGCAGCCTGCAAGG
 TTACAAAACATATGGCCACTTCTAGCCGGGCCATCAAGTCTGAGTACCCAGACCCCTATACCAGCTCA
 CCCGAGTCCATAATGGGCTATTCATATATGGATAGTTACCAGACGAGCTCTCCAGCAAGCATCCCACATC
 TGATACTGGAACTTTTGAAGTGTGAGCCAGATGAGCCTCAAGTCCAGGCTAAAATCATGGCCTATTTGCA
 GCAAGAGCAGGCTAACCGAAGCAAGCACGAAAAGCTGAGCACCTTTGGGCTTATGTGCAAAATGGCAGAT
 CAAACTCTTTCTCCATTGTGAGTGGGCCAGGAGTAGTATCTTCTTCCAGAGAAGTAAAGGTTGATGACC
 AAATGAAGCTGCTTCAGAACTGCTGGAGTGAGCTCTTAATCCTCGACCACATTTACCAGCAAGTGGTACA
 TGGAAAGGAAGGATCCATCTTCTGTTACTGGGCAACAAGTGGACTATTCATAATAGCATCACAAAGCC
 GGAGCCACCCTCAACAACCTCATGAGTCATGCACAGGAGTTAGTGCAAAAACCTTCTGTTCTCTCCAGTTTG
 ATCAACGAGAGTTCGATGTCTGAAATCTTGGTCTCTTTAGTTTAGATGTCAAAAACCTTGAAAAACCT
 CCAGCTGGTAGAAGGTGTCCAGGAACAAGTCAATGCCGCCCTGCTGGACTACACAATGTGTAACACCCG
 CAGCAGACAGAGAAATTTGGACAGCTACTTCTTCGACTACCCGAAATCCGGGCCATCAGTATGCAGGCTG
 AAGAATACCTCTACTACAAGCACCTGAATGGGGATGTGCCCTATAATAACCTTCTCATTGAAATGTTGCA
 TGCCAAAAGAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217590 representing NM_205860
 Red=Cloning site Green=Tags(s)

MSSNSDGTGLQESLKHGLTPIGAGLPDRHGSPIPARGRLVMLPKVETEALGLARSHGEQQMPENMQVSQ
 FKMVNYSYDEDLEELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKRYTCIENQNCIDKTQRKRCPY
 CRFQKCLSVGMKLEAVRADRMGRGNKFGPMYKRDRALKQKKALIRANGLKLEAMSQVIQAMPDLTIS
 SAIQNIHSASKGLPLNHAALPPTDYDRSPFVTSPI SMTMPPHGS LQGYQTYGHFPSRAIKSEYPDPYTSS
 PESIMGYSYMSYQTSPPASIPHLILELLKCEPDEPQVQAKIMAYLQQEQANRSKHEKLSFGLMCKMAD
 QTLFSIVWARSSIFFRELKVDQMKLLQNCWSELLILDHIYRQVVHGKEGSIFLVTGQQVDYSIIASQA
 GATLNNLMSHAQELVAKLRSLQFDQREFVCLKFLVFLSLDVKNLENFQLVEGVQEQVNAALLDYTMCNYP
 QQTEKFGQLLLRLEIRAISMQAEEYL YKHLNGDVPYNNLLIEMLHAKRA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_205860

ORF Size: 1623 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](#)

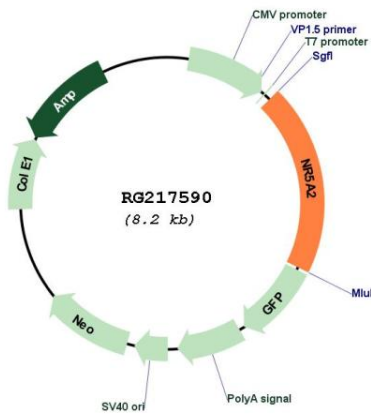
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_205860.1, NP_995582.1</u>
RefSeq Size:	5094 bp
RefSeq ORF:	1626 bp
Locus ID:	2494
UniProt ID:	<u>O00482</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
Gene Summary:	The protein encoded by this gene is a DNA-binding zinc finger transcription factor and is a member of the fushi tarazu factor-1 subfamily of orphan nuclear receptors. The encoded protein is involved in the expression of genes for hepatitis B virus and cholesterol biosynthesis, and may be an important regulator of embryonic development. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG217590