

Product datasheet for **RG205651**

Angiotensin like 4 (ANGPTL4) (NM_139314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensin like 4 (ANGPTL4) (NM_139314) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiotensin like 4
Synonyms:	ARP4; FIAF; HARP; HFARP; NL2; PGAR; pp1158; TGQTL; UNQ171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205651 representing NM_139314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGTGCTCCGACGGCCGGGGCAGCCCTGATGCTCTGCGCCGCCACCGCCGTGCTACTGAGCGCTC
AGGGCGGACCCGTGCAGTCCAAGTCGCCGCGCTTTGCGTCTGGGACGAGATGAATGTCCTGGCGCACGG
ACTCCTGCAGCTCGGCCAGGGGCTGCGCAACACGCGGAGCGCACCCGAGTCAGCTGAGCGCGCTGGAG
CGGCGCCTGAGCGGTGCGGGTCCGCTGTCAGGGAACCGAGGGTCCACCGACCTCCCGTTAGCCCTG
AGAGCCGGTGGACCCTGAGGTCTTACAGCCTGCAGACACAACCTCAAGGCTCAGAACAGCAGGATCCA
GCAACTCTCCACAAGGTGGCCAGCAGCAGCGGCACCTGGAGAAGCAGCACCTGCGAATTCAGCATCTG
CAAAGCCAGTTTGGCCTCCTGGACCACAAGCACCTAGACCATGAGGTGGCCAAGCCTGCCGAAGAAAGA
GGCTGCCCGAGATGGCCAGCCAGTTGACCCGGCTCACAATGTCAGCCGCTGCACCGGCTGCCAGGGA
TTGCCAGGAGCTGTTCCAGTTGGGGAGAGGCAGAGTGGACTATTTGAAATCCAGCCTCAGGGGTCTCCG
CCATTTTGGTGAAGTGAAGTGCAGCTCAGATGGAGGCTGGACAGTAATTCAGAGGCGCCACGATGGCT
CAGTGGACTTCAACCGCCCTGGGAAGCCTACAAGCGGGGTTGGGGATCCCCACGGCGAGTTCTGGCT
GGTCTGGAGAAGGTGCATAGCATCACGGGGACCGCAACAGCCGCTGGCCGTGCAGCTGCGGGACTGG
GATGGCAACGCCGAGTTGCTGCACTTCTCCGTGCACCTGGTGGCGAGGACACGGCCTATAGCCTGCAGC
TCACTGCACCCGTGGCCGCGCAGCTGGGCGCCACCACCTGCCACCCAGCGGCCTCTCCGTACCCTTCTC
CACTTGGGACCAGGATCACGACCTCCGACGGGACAAGAAGTGCAGCAAGGCCTCTCTGGAGGCTGGTGG
TTTGGCAGCTGCAGCATTCCAACCTCAACGGCCAGTACTTCCGCTCCATCCCACAGCAGCGGCAGAAGC
TTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGCCGCTACTACCCTGACAGGCCACCACCATGTTGAT
CCAGCCCATGGCAGCAGAGGCAGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205651 representing NM_139314
 Red=Cloning site Green=Tags(s)

MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAERTRSQLSALE
 RRLSACGSACQGTGEGSTDLPLAPESRVDPPEVLHSLQTQLKAQNSRIQQLFHKVAQQRHLEKQHLRIQHL
 QSQFGLLDHKHLHDHEVAKPARRKRLPEMAQPVDPAHNVSRLHRLPRDCQELFQVGERQSGLFEIQPGSP
 PFLVNCKMTSDGGWTVIQRRHDGSDVFNRPWEAYKAGFGDPHGEFVLGLEKVVHSITGDRNSRLAVQLRDW
 DGNALLQF SVHLGGEDTAYSLQLTAPVAGQLGATTVPPSGLSVPFSTWDQDHLRRDKNCAKSLSGGWW
 FGTCSHSNLNGQYFRSIPQQRQKLKKGIFWKTWRGRYPLQATTMLIQPMAEEAAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139314

ORF Size: 1218 bp

OTI Disclaimer: 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_139314.1](#), [NP_647475.1](#)

RefSeq Size: 1967 bp

RefSeq ORF: 1221 bp

Locus ID: 51129

UniProt ID: [Q9BY76](#)

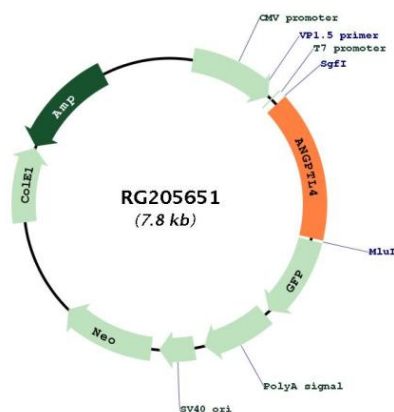
Cytogenetics: 19p13.2

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: PPAR signaling pathway

Gene Summary: This gene encodes a glycosylated, secreted protein containing a C-terminal fibrinogen domain. The encoded protein is induced by peroxisome proliferation activators and functions as a serum hormone that regulates glucose homeostasis, lipid metabolism, and insulin sensitivity. This protein can also act as an apoptosis survival factor for vascular endothelial cells and can prevent metastasis by inhibiting vascular growth and tumor cell invasion. The C-terminal domain may be proteolytically-cleaved from the full-length secreted protein. Decreased expression of this gene has been associated with type 2 diabetes. Alternative splicing results in multiple transcript variants. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RG205651