

Product datasheet for **RG234288**

Angiopoietin 1 (ANGPT1) (NM_001199859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 1 (ANGPT1) (NM_001199859) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiopoietin 1
Synonyms:	AGP1; AGPT; ANG1; HAE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234288 representing NM_001199859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAGTTTTCTTTCTTTGCTTTCTCGTGCATTCTGACTCACATAGGGTGCAGCAATCAGCGCC
 GAAGTCCAGAAAACAGTGGGAGAAGATATAACCGATTCAACATGGGCAATGTGCCTACACTTTCTTCT
 TCCAGAACACGATGGCAACTGTCGTGAGAGTACGACAGACCAGTACAACACAAACGCTCTGCAGAGAGAT
 GCTCCACACGTGGAACCGGATTTCTCTCCAGAACTTCAACATCTGGAACATGTGATGGAAAATTATA
 CTCAGTGGCTGCAAAAACCTTGAATACATTGTGAAAAACATGAAGTCGGAGATGGCCAGATACAGCA
 GAATGCAGTTCAGAACCACCGCTACCATGCTGGAGATAGGAACCAGCCTCCTCTCAGACTGCAGAG
 CAGACCAGAAAGTGCAGATGTTGAGACCCAGGTAATAAATAAATAAATAAATAAATAAATAAATAA
 TGGAGAATTCATTATCCACCTACAAGCTAGAGAAGCAACTTCTTCAACAGACAAATGAAATCTTGAAGAT
 CCATGAAAAAACAGTTTATTAGAACATAAAATCTTAGAAATGGAAGGAAAAACACAAGGAAGAGTTGGAC
 ACCTTAAAGGAAGAGAAAAGAGAACCTTCAAGGCTTGGTTACTCGTCAAACATATAAATCCAGGAGCTGG
 AAAAGCAATTAACAGAGCTACCAACAACAGTGTCTTCAAGCAGCAACTGGAGCTGATGGACAC
 AGTCCACAACCTTGTCAATCTTTGCACTAAAGAAGTTTACTAAAGGGAGGAAAAAGAGAGGAAGAGAAA
 CCATTTAGAGACTGTGCAGATGTATCAAGCTGGTTTTAATAAAAGTGGAACTACACTATTTATATTA
 ATAATATGCCAGAACCCAAAAGGTGTTTTGCAATATGGATGTCAATGGGGAGGTTGGACTGTAATACA
 ACATCGTGAAGATGGAAGTCTAGATTTCCAAAGAGGCTGGAAGGAATATAAAATGGGTTTTGAAATCCC
 TCCGGTGAATATTGGCTGGGAATGAGTTATTTTTGCCATTACCAGTACAGAGGCAGTACATGCTAAGAA
 TTGAGTTAATGGACTGGGAAGGGAACCGAGCCTATTCACAGATGACAGATTCACATAGGAAATGAAA
 GCAAAACTATAGGTTGTATTTAAAAGTCACTGGGACAGCAGGAAAAACAGAGCAGCCTGATCTTACAC
 GGTGCTGATTTACGACTAAAGATGCTGATAATGACAACGTATGTGCAATGTGCCCTCATGTTAACAG
 GAGGATGGTGGTTGATGCTTGTGGCCCTCCAATCTAAATGGAATGTTCTATACTGCGGACAAAACCA
 TGGAAAACGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTACTCCTTACGTTCCACAACATATG
 ATGATTGACCTTTAGATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234288 representing NM_001199859
 Red=Cloning site Green=Tags(s)

MTVFLSFAFLAAILTHIGCSNQRRSPENSRRYNIQHGQCAITFILPEHDGNCRESTTDQYNTNALQRD
 APHVEPDFSSQKLQHLHVMEYNTQWLQKLENYIVENMKSEMAQIQONAVQNHATMLEIGTSLLSQTAE
 QTRKLTQVETQVLNQTSLRLEIQLENSLSTYKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELD
 TLKEEKENLQGLVTRQTYIIQELEKQLNRATTNNSVLQKQLELMDTVHNLVNLCTKEVLLKGGKREEEK
 PFRDCADVYQAGFNKSGIYTIYINNMPKPVFCNMDVNGGWTVIQHREDGSLDFQRGWKEYKMGFGNP
 SGEYWLGNFIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLYLKGTGTAGKQSSLILH
 GADFSTKDADNDNCMKCALMLTGGWVFDACGPSNLNGMFYTAGQNHGKLNIGIKWHYFKGPSYSLRSTTM
 MIRPLDF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001199859

ORF Size: 1491 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_001199859.3](#)

RefSeq Size: 4335 bp

RefSeq ORF: 1494 bp

Locus ID: 284

UniProt ID: [Q15389](#)

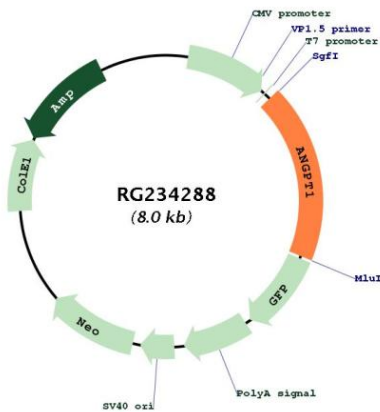
Cytogenetics: 8q23.1

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Gene Summary:

This gene encodes a secreted glycoprotein that belongs to the angiotensin family. Members of this family play important roles in vascular development and angiogenesis. All angiotensins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Mutations in this gene are associated with hereditary angioedema. [provided by RefSeq, Aug 2020]

Product images:

Circular map for RG234288