

Product datasheet for **RG225727**

Angiopoietin 2 (ANGPT2) (NM_001118888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 2 (ANGPT2) (NM_001118888) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANGPT2
Synonyms:	AGPT2; ANG2; LMPHM10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG225727 representing NM_001118888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGGCAGATTGTTTTCTTACTCTGAGCTGTGATCTTGTCTTGCCGAGCCTATAACAACCTTCGGA
 AGAGCATGGACAGCATAGGAAAGAAGCAATATCAGGTCCAGCATGGGTCCTGCAGCTACACTTTCCTCT
 GCCAGAGATGGACAACCTGCCGCTCTTCCCTCAGCCCTACGTGTCCAATGCTGTGAGAGGGACGCGCCG
 CTCGAATACGATGACTCGGTGCAGAGGCTGCAAGTGTGGAGAACATCATGAAAAACAACACTCAGTGGC
 TAATGAAGGTATTAATCAGACCAGAGACTTGAACCTCAGCTCTTGAACACTCCCTCTCGAAAAACA
 ATTGAAAAACAGATTTGGACCAGACCAGTGAATAAACAATTTGCAAGATAAGAACAGTTTCCTAGAA
 AAGAAGGTCTAGCTATGGAAGACAAGCACATCATCAACTACAGTCAATAAAGAAGAGAAAGATCAGC
 TACAGGTGTAGTATCCAAGCAAATTCATCATTGAAGAAGTAAAAAAGTACTGACTGCCACGGT
 GAATAATTCAGTCTTCCAGAAGCAGCAACATGATCTCATGGAGACAGTTAATAACTTACTGACTATGATG
 TCCACATCAAACCTCAGCTAAGGACCCACTGTTGCTAAAGAAGAACAAATCAGCTTCAGAGACTGTGCTG
 AAGTATTCAAATCAGGACACACCACGAATGGCATCTACACGTTAACATTCCTAATTCTACAGAAGAGAT
 CAAGGCCACTGTGACATGGAAGCTGGAGGAGCGGGTGGACAATTATTCAGCGACGTGAGGATGGCAGC
 GTTGATTTTCAGAGGACTTGAAAGAATATAAAGTGGGATTTGGTAACCTTCAGGAGAATATTGGCTGG
 GAAATGAGTTTTCGCAACTGACTAATCAGCAACGCTATGTGCTTAAAATACACCTTAAAGACTGGGA
 AGGGAATGAGGCTTACTCATTGTATGAACATTTCTATCTCAAGTGAAGAACTCAATTATAGGATTCAC
 CTTAAAGGACTTACAGGGACAGCCGCAAAATAAGCAGCATCAGCCAACCAGGAAATGATTTTAGCACAA
 AGGATGGAGACAACGACAAATGATTTGCAAAATGTTCAAAATGCTAACAGGAGGCTGGTGGTTTATGATC
 ATGTGGTCTTCCAACCTGAACGGAATGTACTATCCACAGAGGCAGAACACAAATAAGTTCAACGGCATT
 AAATGGTACTACTGGAAGGCTCAGGCTATTCGCTCAAGGCCACAACCATGATGATCCGACCAGCAGATT
 TC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225727 representing NM_001118888
 Red=Cloning site Green=Tags(s)

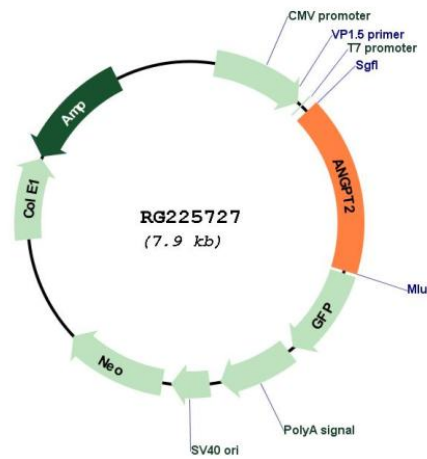
MWQIVFFTLSCDLVLAAYNNFRKSMDSIGKKQYVQVHGSCSYTFLLPEMDNCRSSSSPYVSNVQRDAP
 LEYDSSVQRLQVLENIMENNTQWLMKVLNQTRLELQLLEHSLSTNKLEKQILDQTSEINKLQDKNSFLE
 KKVLAAMEDKHIIQLQSIKEEKDQLQVLVSKQNSIIIEELEKKIVTATVNNSVLQKQHDLMETVNNLLTMM
 STSNSAKDPTVAKEEQISFRDCAEVFKSGHTTNGIYTLTFPNSTEEIKAYCDMEAGGGWTIIQRREDGS
 VDFQRTWKEYKVGFGNPSGEYWLGNFVSQLTNQRYVLKIHLDKDWEGNEAYSLYEHFYLSEELNYRIH
 LKGLTGTAGKISSISQPGNDFSTKGDNDKCICKCSQMLTGGWFFDACGPSNLNGMYYPQRQNTNKFNGI
 KWYYWKSGSYSLKATMMIRPADF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001118888

ORF Size: 1332 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:	<ol style="list-style-type: none">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_001118888.2</u>
RefSeq Size:	5114 bp
RefSeq ORF:	1335 bp
Locus ID:	285
UniProt ID:	<u>O15123</u>
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	This gene belongs to the angiotensin family of growth factors. The protein encoded by this gene is an antagonist of angiotensin 1, and both angiotensin 1 and angiotensin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiotensin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiotensin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]