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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:	Angiopoietin 2
Synonyms:	AGPT2; ANG2; LMPHM10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCAGATTGTTTTCTTTACTCTGAGCTGTGATCTTGTCTTGGCCGCAGCCTATAACAACTTTCGGA
AGAGCATGGACAGCATAGGAAAGAAGCAATATCAGGTCCAGCATGGGTCCTGCAGCTACACTTTCCTCCT
GCCAGAGATGGACAACTGCCGCTCTTCCTCCAGCCCCTACGTGTCCAATGCTGTGCAGAGGGACGCGCCG
CTCGAATACGATGACTCGGTGCAGAGGCTGCAAGTGCTGGAGAACATCATGGAAAACAACACTCAGTGGC
TAATGAAGGTATTAAATCAGACCACGAGACTTGAACTTCAGCTCTTGGAACACTCCCTCTCGACAAACAA
ATTGGAAAAACAGATTTTGGACCAGACCAGTGAAATAAACAAATTGCAAGATAAGAACAGTTTCCTAGAA
AAGAAGGTGCTAGCTATGGAAGACAAGCACATCATCCAACTACAGTCAATAAAAGAAGAGAAAGATCAGC
TACAGGTGTTAGTATCCAAGCAAAATTCCATCATTGAAGAACTAGAAAAAAAAATAGTGACTGCCACGGT
GAATAATTCAGTTCTTCAGAAGCAGCAACATGATCTCATGGAGACAGTTAATAACTTACTGACTATGATG
TCCACATCAAACTCAGCTAAGGACCCCACTGTTGCTAAAGAAGAACAAATCAGCTTCAGAGACTGTGCTG
AAGTATTCAAATCAGGACACACCACGAATGGCATCTACACGTTAACATTCCCTAATTCTACAGAAGAGAT
CAAGGCCTACTGTGACATGGAAGCTGGAGGAGGCGGGTGGACAATTATTCAGCGACGTGAGGATGGCAGC
GTTGATTTTCAGAGGACTTGGAAAGAATATAAAGTGGGATTTGGTAACCCTTCAGGAGAATATTGGCTGG
GAAATGAGTTTGTTTCGCAACTGACTAATCAGCAACGCTATGTGCTTAAAATACACCTTAAAGACTGGGA
AGGGAATGAGGCTTACTCATTGTATGAACATTTCTATCTCTCAAGTGAAGAACTCAATTATAGGATTCAC
CTTAAAGGACTTACAGGGACAGCCGGCAAAATAAGCAGCATCAGCCAACCAGGAAATGATTTTAGCACAA
AGGATGGAGACAACGACAAATGTATTTGCAAATGTTCACAAATGCTAACAGGAGGCTGGTGGTTTGATGC
ATGTGGTCCTTCCAACTTGAACGGAATGTACTATCCACAGAGGCAGAACACAAATAAGTTCAACGGCATT
AAATGGTACTACTGGAAAGGCTCAGGCTATTCGCTCAAGGCCACAACCATGATGATCCGACCAGCAGATT
TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

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

MWQIVFFTLSCDLVLAAAYNNFRKSMDSIGKKQYQVQHGSCSYTFLLPEMDNCRSSSSPYVSNAVQRDAP
LEYDDSVQRLQVLENIMENNTQWLMKVLNQTTRLELQLLEHSLSTNKLEKQILDQTSEINKLQDKNSFLE
KKVLAMEDKHIIQLQSIKEEKDQLQVLVSKQNSIIEELEKKIVTATVNNSVLQKQQHDLMETVNNLLTMM
STSNSAKDPTVAKEEQISFRDCAEVFKSGHTTNGIYTLTFPNSTEEIKAYCDMEAGGGGWTIIQRREDGS
VDFQRTWKEYKVGFGNPSGEYWLGNEFVSQLTNQQRYVLKIHLKDWEGNEAYSLYEHFYLSSEELNYRIH
LKGLTGTAGKISSISQPGNDFSTKDGDNDKCICKCSQMLTGGWWFDACGPSNLNGMYYPQRQNTNKFNGI
KWYYWKGSGYSLKATTMMIRPADF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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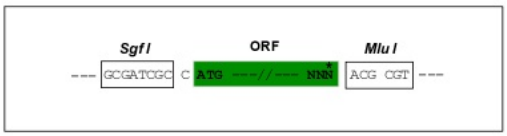
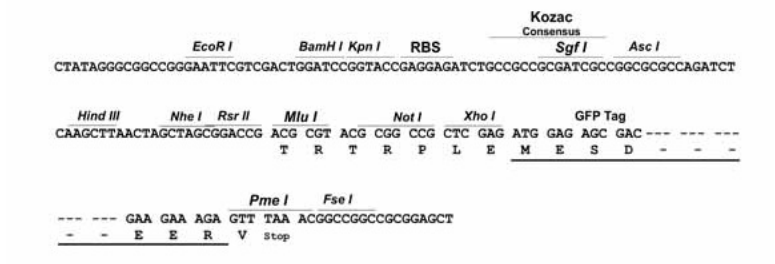
Cloning Scheme:





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:	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_001118888.2
RefSeq Size:	5114 bp
RefSeq ORF:	1335 bp
Locus ID:	285
UniProt ID:	O15123
Cytogenetics:	8p23.1

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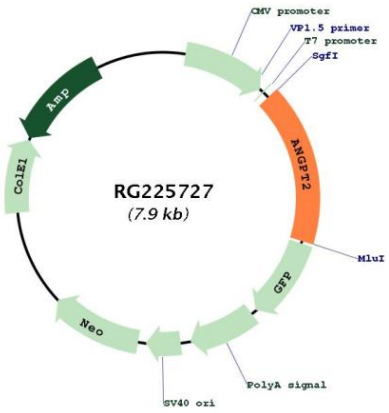
Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 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 angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RG225727

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