

## Product datasheet for **RG228830**

### PAF Receptor (PTAFR) (NM\_001164721) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAF Receptor (PTAFR) (NM_001164721) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTAFR
Synonyms:	PAFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228830 representing NM_001164721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCACATGACTCCTCCACATGGACTCTGAGTTCCGATACACTCTTCCCGATTGTTTACAGCA  
TCATCTTTGTGCTCGGGTCATTGCTAATGGCTACGTGCTGTGGGTCTTGGCCGCTGTACCCTTGCAA  
GAAATTCATGAGATAAAGATCTTCATGGTGAACCTCACCATGGCGGACATGCTCTTCTTGATCACCTG  
CCACTTTGGATTGTCTACTACAAAACCAGGGCAACTGGATACTCCCAAATTCCTGTGCAACGTGGCTG  
GCTGCCTTTTCTCATCAACACCTACTGCTCTGTGGCCTTCTGGCGTCATCACTTATAACCGCTCCA  
GGCAGTAACTCGGCCATCAAGACTGCTCAGGCCAACACCCGCAAGCGTGGCATCTCTTTGCTCTGGTC  
ATCTGGGTGGCCATTGTGGGAGCTGCATCCTACTTCTCATCCTGGACTCCACCAACACAGTGCCCGACA  
GTGCTGGCTCAGGCAACGTCACTCGCTGCTTTGAGCATTACGAGAAGGGCAGCGTGCCAGTCCCTCATCAT  
CCACATCTTATCGTGTTCAGCTTCTTCTGGTCTTCTCATCATCCTCTTCTGCAACCTGGTCATCATC  
CGTACCTTGCTCATGCAGCCGGTGCAGCAGCAGCGCAACGCTGAAGTCAAGCGCCGGCGCTGTGGATGG  
TGTGCACGGTCTTGGCGGTTCATCATCTGCTTCGTGCCACCACGTGGTGCAGCTGCCCTGGACCCT  
TGCTGAGCTGGGCTTCCAGGACAGCAAATCCACCAGGCCATTAATGATGCACATCAGGTACCCCTCTGC  
CTCCTTAGCACCAACTGTGCTTAGACCCTGTTATCTACTGTTTCTCACCAGAAGTTCGCAAGCACC  
TCACCGAAAAGTTCTACAGCATGCGCAGTAGCCGAAATGCTCCCGGCCACCACGGATACGGTCACTGA  
AGTGGTTGTGCCATTCAACCAGATCCCTGGCAATTCCTCAAAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228830 representing NM\_001164721  
 Red=Cloning site Green=Tags(s)

MEPHDSSSHMDSEFRYTLFPIVYSIIFVLGVIANGVYLVWFARLYPCKKFNEIKIFMVNLTMADMLFLITL  
 PLWIVYYQNQGNWILPKFLCNVAGCLFFINTYCSVAFLGVITYNRFQAVTRPIKTAQANTRKRGISLSLV  
 IWVAIVGAASYFLILDSTNTVPDSAGSGNVTRCFEYHEKGSVPVLIHIFIVFSFFLVFLIILFCNLVII  
 RTLLMQPVQQQRNAEVKRRALWMVCTVLAVFIIICFVPHHVVQLPWTLAELGFQDSKFHQAINDAHQVTLCL  
 LLSTNCVLDPVIYCFLLTKKFRKHLTEKFYSMRSSRKCSRATTDVTEVVVFPFNQIPGNSLKN

TRTRPLE - GFP Tag - V

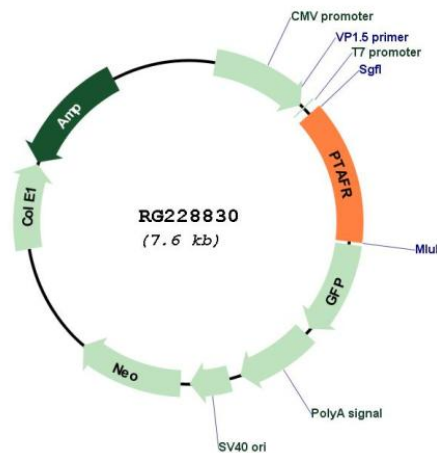
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001164721

ORF Size: 1026 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001164721.1</a> , <a href="#">NP_001158193.1</a>
<b>RefSeq Size:</b>	4191 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	5724
<b>UniProt ID:</b>	<a href="#">P25105</a>
<b>Cytogenetics:</b>	1p35.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	This gene encodes a seven-transmembrane G-protein-coupled receptor for platelet-activating factor (PAF) that localizes to lipid rafts and/or caveolae in the cell membrane. PAF (1-0-alkyl-2-acetyl-sn-glycero-3-phosphorylcholine) is a phospholipid that plays a significant role in oncogenic transformation, tumor growth, angiogenesis, metastasis, and pro-inflammatory processes. Binding of PAF to the PAF-receptor (PAFR) stimulates numerous signal transduction pathways including phospholipase C, D, A2, mitogen-activated protein kinases (MAPKs), and the phosphatidylinositol-calcium second messenger system. Following PAFR activation, cells become rapidly desensitized and this refractory state is dependent on PAFR phosphorylation, internalization, and down-regulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]