

Product datasheet for SC119557

PAF Receptor (PTAFR) (NM_000952) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAF Receptor (PTAFR) (NM_000952) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAF Receptor
Synonyms:	PAFR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119557 sequence for NM_000952 edited (data generated by NextGen Sequencing)

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ATGGAGCCACATGACTCCTCCCACATGGACTCTGAGTTCCGATACACTCTTCCCGATT
GTTTACAGCATCATCTTTGTGCTCGGGGCATTGCTAATGGCTACGTGCTGTGGTCTTT
GCCCGCCTGTACCCTTGCAAGAAATTCAATGAGATAAAGATCTTCATGGTGAACCTCACC
ATGGCGGACATGCTCTTCTTGATCACCCTGCCACTTTGGATTGTCTACTACCAAACCAG
GGCAACTGGATACTCCCCAAATTCCTGTGCAACGTGGCTGGCTGCCTTTTCTTCAAC
ACCTACTGCTCTGTGGCCTTCTGGCGTCATCACTTATAACCGCTTCAGGCAGTAACT
CGGCCCATCAAGACTGCTCAGGCCAACCCGCAAGCGTGGCATCTCTTGTCTTGGTC
ATCTGGGTGGCCATTGTGGGAGCTGCATCCTACTTCTCATCCTGGACTCCACCAACACA
GTGCCCGACAGTCTGGCTCAGGCCAACGTCACGCTGCTTTGAGCATTACGAGAAGGGC
AGCGTGCCAGTCCATCATCCACATCTTCATCGTGTTCAGCTTCTCCTGGTCTTCCTC
ATCATCCTCTTCTGCAACCTGGTCATCCTCGTACCTTGCTCATGCAGCCGGTGCAGCAG
CAGCGCAACGCTGAAGTCAAGCGCCGGCGCTGTGGATGGTGTGCACGGTCTTGGCGGTG
TTCATCATCTGCTTCGTGCCCAACACGTTGGTGCAGCTGCCCTGGACCCTTGCTGAGCTG
GGCTTCCAGGACAGCAAATTCACCAGGCCATTAATGATGCACATCAGGTCACCCCTCTGC
CTCCTTAGCACCAACTGTGCTTAGACCCTGTTATCTACTGTTTCCTACCAAGAAGTTC
CGCAAGCACCTCACCGAAAAGTTCTACAGCATGCGCAGTAGCCGAAAATGCTCCCGGGCC
ACCACGGATACGGTCACTGAAGTGGTTGTGCCATTCAACCAGATCCCTGGCAATTCCTC
AAAAATTAG

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Clone variation with respect to NM_000952.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000952 unedited AGGTAAGGCACCCCTGCACCCCGCTTGTACTATNAGGGCGGCCGCAATTCGCACCAGCA GNACCCATTTCGTAGCCACACGGTCACTGCAGCTGAAGCCGCTGCCCTGTACAGGCACC ACCAGGACCAGCTGATCATTCCAGCCCACAGCAATGGAGCCACATGCCTCCTCCACAGG ACTCTGAGTTCGGATACACTCTTCCCGACTGTTTACAGCATCATCTTTGTGCTCGGGG TCATTGCTAATGGCTACGTGTGTGGGTCTTGGCCGCTGTACCCTTGCAAGAAATTC ATGAGATAAAGATCTTTCATGGCGAACCTCACCATGGCGGACATGCTCTTCTTGATCACC TGCCACTTTGGATTGTCTACTACCAAAAACAGGGCAACTGGATACTCCCAAAATTCCTGT GCAACGTGGCTGGCTGCCTTTTCTCATCAACACCTACTGCTCTGTGGCCTTCTGGGCG TCATCACTTATAACCGCTTCCAGGCAGTAACTCGGCCATCAAGACTGCTCAGGCCAACA CCCGAAGCGTGGCATCTCTTGTCTTGGTCACTGGGTGGCCATTGTGGGAGCTGCAT CCTACTTCTCATCCTGGACTCCACCAACACAGTGCCCGACAGTGTGGCTCAGGCCACG TCACTCGTGTCTTGTAGCATTACGAGAAGGGCAGCGTGCCAGTCTCATCATCCACATCT TCATCGTGGTCAGCTTCTTCTGGGCTTCTCATCATCTCTTTTGAACCTGGTCATCA TCCGTACCTTGTCTATGCAGCCGTTGCACCAGCAGCGCACCGCTTAAGTTCAGCGCCCGG GGCTGTGGAATGGGTGCCCGTGTGGCGGGGTTTCAATGTCTCGTGGCCACCAC GGGGGACAGTGCCTGGACCCTTGTGACCTGAGCTTCCAGGAACGCG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000952 unedited GTCTTGGCCGCGCCGCATCTANAGTCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA GATGGAATCTCGTCTGTGCCAGGCTAGAGTGAATGGTGAATCTAGGTTCACTGCAA CCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTAC AGGCGTGTGCCACCATGCCCGGTAATTTTTGTATGTTTTAGTAGAGATGGGTTTTACA ATGTTGGCCAGGATGGTCTCGATCTTACCATGATCTGCCACCTCGCCTCCCAAA GTGCTGGGATTACAGGTGTGAGCCACTGCGCCACTCCCCAAAGCTTTAGACCGATGCC CCATCGGGGAGAAGTGGTAAAGTCTTCCCCAAGGCTGACACCTGGCCCTGACA TTCCTTCCGGCCCATAAAGATTAAGGGACTCAGGATAAAGTCAATCAGTCAAGTACTGT AGTATGCGCCACAGGCGGATGAAGGGGCTCATTTGAGTCTGGATTTTCCAACAGCCTG GCTCTGCCATCATCCCTGCCAGGTGAAGTAGCCTCCAATCTAATGGCCCCCAGTGCC CACAGAGGGGGTCCCCAGACCACAGTAGATATCCCTTCTCCCCCACTCAGTCCAAGA TGTTTCATGGGAGAGAAGACTTCAGGGCCTGGAAGCAGGGACTTAATTTTGGAGGGATTGC CCGGGATCCGGTGGATGGCACAACCACTTCAGTGACCGGATTCCGGGGGGCCGGGAG CATTTTCGGCTACTGGGCGAGCTGGAGAAATTTTCGGGGAGGGGCTGCGGAACCTCTTG GGGAGGAACCAGATGATACCGGGTCTTAGAACCAATTGGGTGCTAGGAGGCAAAGGGGA CCCAGGGCATCATAATGGCCCGTGGGAAATTGCTGCCCGGAACCAATTAACAGGGGCC AGGGCGCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000952
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000952.3](#), [NP_000943.1](#)

RefSeq Size: 1822 bp

RefSeq ORF: 1029 bp

Locus ID: 5724

UniProt ID: [P25105](#)

Cytogenetics: 1p35.3

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: 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]

Transcript Variant: This variant (3) lacks the 5' exon, but has an alternate 5' segment, as compared to variant 1. Variants 1-4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.