

## Product datasheet for SC327467

### PAF Receptor (PTAFR) (NM\_001164723) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAF Receptor (PTAFR) (NM_001164723) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTAFR
Synonyms:	PAFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327467 representing NM_001164723. Blue=Insert sequence Red=Cloning site Green=Tag(s)

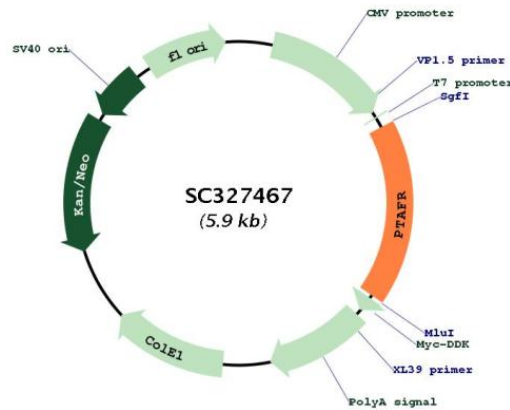
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGAGCCACATGACTCCTCCACATGGACTCTGAGTTCCGATACACTCTCTTCCCGATTGTTTACAGC
ATCATCTTTGTGCTCGGGTCATTGCTAATGGCTACGTGCTGTGGGTCTTTGCCCGCTGTACCCTTGC
AAGAAATCAATGAGATAAAGATCTTCATGGTGAACCTCACCATGGCGGACATGCTCTTCTTGATCACC
CTGCCACTTTGGATTGTCTACTACAAAACCAGGGCAACTGGATACTCCCAAATTCCTGTGCAACGTG
GCTGGCTGCCTTTCTTCATCAACACCTACTGCTCTGTGGCTTCTGGGCGTCATCACTATAACCGC
TCCAGGCAGTAACTCGGCCATCAAGACTGCTCAGGCCAACCCGCAAGCGTGGCATCTCTTTGTCC
TTGGTCATCTGGGTGGCCATTGTGGGAGCTGCATCCTACTTCTCATCCTGGACTCCACCAACACAGTG
CCCGACAGTGCTGGCTCAGGCAACGTCCTCGCTGCTTTGAGCATTACGAGAAGGGCAGCGTGCCAGTC
CTCATCATCCACATCTTCATCGTGTTACGCTTCTTCTGGTCTTCTCATCATCCTCTTCTGCAACCTG
GTCATCATCCGTACCTTGCTCATGCAGCCGGTGCAGCAGCAGCGCAACGCTGAAGTCAAGCGCCGGGCG
CTGTGGATGGTGTGCACGGTCTTGGCGGTTCATCATCTGCTTCGTGCCCAACCGTGGTGCAGCTG
CCCTGGACCCTTGCTGAGCTGGGCTTCCAGGACAGCAAATTCACCAGGCCATTAATGATGCACATCAG
GTCACCCTCTGCCTCCTTAGCACCACTGTGTCTTAGACCCTGTATCTACTGTTTCTCACCAAGAAG
TTCCGCAAGCACCTCACGAAAAGTTCTACAGCATGCGCAGTAGCCGAAATGCTCCCGGGCCACCAG
GATACGGTCACTGAAGTGGTTGTGCCATTCAACCAGATCCTGGCAATTCCTCAAAAATTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM\_001164723

Insert Size: 1029 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001164723.2](#)

RefSeq Size: 4318 bp

RefSeq ORF: 1029 bp

Locus ID: 5724

UniProt ID:	<a href="#">P25105</a>
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	39.2 kDa

**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 (4) lacks the 5' exon, but has an additional exon in the 5' region, 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.