

## Product datasheet for **SC116805**

### GPR31 (NM\_005299) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR31 (NM_005299) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR31
Synonyms:	12-HETER; HETER; HETER1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005299, RT-PCR generated ATGCCATTCCAAACTGCTCAGCCCCAGCACTGTGGTGGCCACAGCTGTGGGTGTCTTG CTGGGGCTGGAGTGTGGGCTGGGTCTGCTGGGCAACGCGGTGGCGCTGTGGACCTTCCTG TTCCGGGTCAGGGTGTGGAAGCCGTACGCTGTCTACCTGCTCAACCTGGCCCTGGCTGAC CTGCTGTTGGCTGCGTGCCTGCCTTTCCTGGCCGCCTTACCTGAGCCTCCAGGCTTGG CATCTGGGCCGTGTGGGCTGCTGGGCCCTGCGCTTCTGCTGGACCTCAGCCGCAGCGTG GGGATGGCCTTTCCTGGCCGCCGTGGCTTTGGACCGGTACCTCCGTGTGGTCCACCCTCGG CTTAAGGTCAACCTGCTGTCTCCTCAGGCGGCCCTGGGGTCTCGGGCCTCGTCTGGCTC CTGATGGTCGCCCTCACCTGCCCGGCTTGCTCATCTCTGAGGCCGCCAGAACTCCACC AGGTGCCACAGTTTCTACTCCAGGGCAGACGGCTCCTTCAGCATCATCTGGCAGGAAGCA CTCTCCTGCCTTCAGTTTGTCTCCCTTTGGCCTCATCGTGTCTGCAATGCAGGCATC ATCAGGGCTCTCCAGAAAAGACTCCGGGAGCCTGAGAAACAGCCAAGCTTCAGCGGGCC CAGGCACTGGTCACCTTGGTGGTGGTGTGTTTGTCTGTGCTTTCTGCCCTGCTTCCTG GCCAGAGTCTGATGCACATCTTCCAGAACTCTGGGGAGCTGCAGGGCCCTTTGTGCAAGT GCTCATACCTCGGATGTACAGGGCAGCCTCACCTACCTGCACAGTGTGCTCAACCCCGTG GTATACTGCTTCTCCAGCCCCACCTTACAGGAGCTCCTATCGGAGGGTCTTCCACACCCTC CGAGGCAAAGGGCAGGCAGCAGAGCCCCAGATTTCAACCCAGAGACTCCTATTCTGA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005299 unedited GTCGTATNCTGGTTACCGATCTTACTCGGGAAGGCGGCAGCCCGTGATGGAATCTGCA GAATTCGGCTTGTGATGCCATTCCCAAAGTCTCAGCCCCAGCACTGTGGTGGCCACAG CTGTGGGTGTCTTGTCTGGGGCTGGAGTGTGGGCTGGGTCTGCTGGGCAACGCGGTGGCGC TGTGGACCTTCTGTTCCGGGTGAGGTGTGGAAGCCGTACGCTGTCTACCTGCTCAACC TGGCCCTGGCTGACCTGCTGTTGGCTGCGTGCCTTTCCTGGCCGCCTTCTACCTGA GCCTCAGGCTTGGCATCTGGCCGTGTGGCTGCTGGCCCTGCGCTTCTGCTGGACC TCAGCCGACGCTGGGGATGGCCTTCTGGCCCGTGGCTTTGGACCGGTACCTCCGTG TGGTCCACCCTCGGCTTAAGGTCAACCTGCTGTCTCTCAGGCGGCCCTGGGGTCTCGG GCCTCGTCTGGCTCCTGATGGTCGCCCTCACCTGCCCGGGCTTGCTCATCTCTGAGGCCG CCCAGAAGTCCACCAGGTGCCACAGTTTCTACTCCAGGGCAGACGGCTCCTTCAGCATCA TCTGGCAGGAAGCACTCTCTGCCTTCAGTTTGTCTCCCTTTGGCCTCATCGTGTCT GCAATGCAGGCATCATCAGGGCTCTCCAGAAAAGACTCCGGGAGCCTGAGAAACAGCCCA AGCTTCAGCGGGCCAGGCACTGGTCACCTTGGTGGTGGTCTGTTTGTCTGTGCTTTC TGCCCTGCTTCTGGCCAGAGTCTGATGCACATCTCCAGAATCTGGNGAGCTGCANGG CCCTTTGTGACAGTGGCTCATACCTCGGATGTACGGGCAGCCTCACCTC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005299
<b>OTI Disclaimer:</b>	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).
<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_005299.1</a> , <a href="#">NP_005290.1</a>
<b>RefSeq Size:</b>	960 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	2853
<b>UniProt ID:</b>	<a href="#">O00270</a>
<b>Cytogenetics:</b>	6q27
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane

**Gene Summary:**

High-affinity receptor for 12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12-S-HETE). 12-(S)-HETE is an arachidonic acid metabolite secreted by platelets and tumor cells, and known to induce endothelial cells retraction allowing invasive cell access to the subendothelial matrix, which is a critical step for extravasation or metastasis. Ligand-binding lead to activation of ERK1/2 (MAPK3/MAPK1), MEK, and NF-kappa-B.[UniProtKB/Swiss-Prot Function]