

## Product datasheet for RC220560

### GPR31 (NM\_005299) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR31 (NM_005299) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR31
Synonyms:	12-HETER; HETER; HETER1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220560 representing NM_005299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCATCCAACTGCTCAGCCCCAGCACTGTGGTGGCCACAGCTGTGGGTGTCTTGCTGGGGCTGG  
AGTGTGGGCTGGGTCTGCTGGGCAACGCGGTGGCGCTGTGGACCTTCTGTTCCGGGTGAGGCTGGAA  
GCCGTACGCTGTCTACCTGCTCAACCTGGCCCTGGCTGACCTGCTGTTGGCTGCGTGCCTTTCCTG  
GCCGCTTCTACCTGAGCCTCCAGGCTTGGCATCTGGCCGTGTGGGCTGCTGGGCCCTGCGCTTCTG  
TGGACCTCAGCCGAGCGTGGGATGGCCTTCTGGCCGCGTGGCTTTGGACCGGTACCTCCGTGTGGT  
CCACCCTCGGCTTAAGGTCAACCTGCTGTCTCCTCAGGCGGCCCTGGGGTCTCGGGCCTCGTCTGGCTC  
CTGATGGTCGCCCTCACCTGCCCGGCTTGTCTATCTCTGAGGCCGCCAGAACTCCACCAGGTGCCACA  
GTTTCTACTCCAGGGCAGACGGCTCCTTCAGCATCATCTGGCAGGAAGCACTCTCCTGCCTTCAGTTTGT  
CCTCCCCTTTGGCCTCATCGTGTCTGCAATGCAGGCATCATCAGGGCTCTCCAGAAAAGACTCCGGGAG  
CCTGAGAAACAGCCCAAGCTTACGCGGGCCAGGCACTGGTCACCTTGGTGGTGGTGTGTTTGTCTGT  
GCTTCTGCCCTGCTTCTGGCCAGAGTCTGTGCACATCTCCAGAATCTGGGAGCTGCAGGGCCCT  
TTGTGCAGTGGCTCATACCTCGGATGTCACGGGCAGCCTCACCTACCTGCACAGTGTGCTCAACCCCGTG  
GTATACTGCTTCTCCAGCCCCACCTTCCAGGAGTCTATCGGAGGGTCTTCCACACCCCTCCGAGGCAAAG  
GGCAGGCAGCAGAGCCCCAGATTTCAACCCAGAGACTCCTATTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_005299.3](#)

**RefSeq Size:** 960 bp

**RefSeq ORF:** 960 bp

**Locus ID:** 2853

**UniProt ID:** [O00270](#)

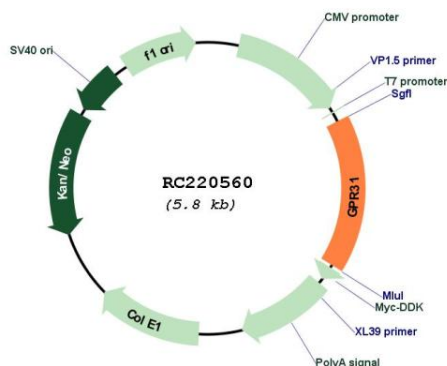
**Cytogenetics:** 6q27

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**MW:** 34.9 kDa

**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]

### Product images:



Circular map for RC220560