

## Product datasheet for SC316195

### G protein coupled receptor 30 (GPER1) (NM\_001098201) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	G protein coupled receptor 30 (GPER1) (NM_001098201) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPER1
Synonyms:	CEPR; CMKRL2; DRY12; FEG-1; GPCR-Br; GPER; GPR30; LERGU; LERGU2; LyGPR; mER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316195 representing NM_001098201. Blue=Insert sequence Red=Cloning site Green=Tag(s)

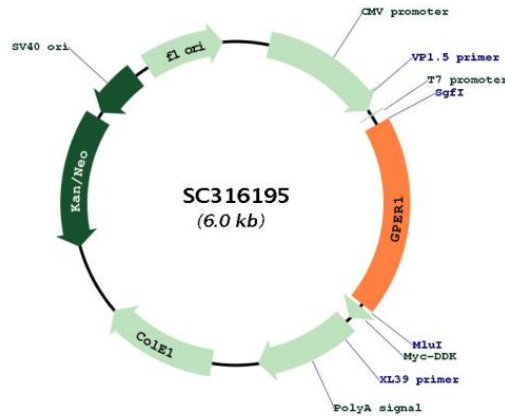
```
GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGTGACTTCCCAAGCCGGGGCGTGGCCTGGAGATGTACCCAGGCACCGCGCAGCCTGCGGCC
CCCAACACCACCTCCCCGAGCTCAACCTGTCCCACCGCTCCTGGGCACCGCCCTGGCCAAATGGGACA
GGTGAGCTCTCGGAGCACCAGCAGTACGTGATCGGCCTGTTCTCTCGTGCCTCTACACCATCTTCTC
TCCCCATCGGCTTTGTGGGCAACATCCTGATCCTGGTGGTGAACATCAGCTTCCGCGAGAAGATGACC
ATCCCCGACCTGTACTTCATCAACCTGGCGGTGGCGGACCTCATCCTGGTGGCCGACTCCCTCATTGAG
GTGTTCAACCTGCACGAGCGGTACTACGACATCGCCGTCCTGTGCACCTCATGTGCTCTTCTCTGCAG
GTCAACATGTACAGCAGGCTCTTCTTCCCTCACCTGGATGAGCTTCGACCGCTACATCGCCCTGGCCAGG
GCCATGCGCTGCAGCCTGTTCCGCACCAAGCACCACGCCCGGCTGAGCTGTGGCCTCATCTGGATGGCA
TCCGTGTGACCCAGCCTGGTGCCCTTACCGCCGTGCACCTGCAGCACACCGACGAGGCCTGCTTCTGT
TTCGCGGATGTCCGGGAGGTGCAGTGGCTCGAGGTACAGCTGGGCTTCATCGTGCCTTCGCCATCATC
GGCCTGTGCTACTCCCTCATTGTCCGGGTGCTGGTCAGGGCGCACCGGCACCGTGGGCTGCGGCCCGG
CGCAGAAGGCGCTCCGCATGATCCTCGCGGTGGTGTGGTCTTCTTCTGCTGCTGGTCCCGGAGAAC
GTCTTCATCAGCGTGCACCTCCTGCAGCGGACGACCTGGGGCCGCTCCCTGCAAGCAGTCTTTCCGC
CATGCCACCCCTCACGGGCCACATTGTCAACCTCGCCGCTTCTCAACAGCTGCCTAAACCCCTC
ATCTACAGCTTTCTCGGGGAGACCTTACGGGACAAGCTGAGGCTGTACATTGAGCAGAAAACAAATTTG
CCGGCCCTGAACCGCTTCTGTACGCTGCCCTGAAGGCCGTCATTCCAGACAGCACCGAGCAGTCCGAT
GTGAGGTTGACGAGTCCGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

## Plasmid Map:



**ACCN:** NM\_001098201

**Insert Size:** 1128 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\\_001098201.1](#)

**RefSeq Size:** 2654 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 2852

**UniProt ID:** [Q99527](#)

**Cytogenetics:** 7p22.3  
**Protein Families:** Druggable Genome, GPCR, Transmembrane  
**MW:** 42.2 kDa

**Gene Summary:** This gene encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum and a member of the G-protein coupled receptor 1 family. This receptor binds estrogen and activates multiple downstream signaling pathways, leading to stimulation of adenylate cyclase and an increase in cyclic AMP levels, while also promoting intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. This receptor has been shown to play a role in diverse biological processes, including bone and nervous system development, metabolism, cognition, male fertility and uterine function. [provided by RefSeq, Aug 2017]  
Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 3. Variants 2-4 encode the same protein.