

## Product datasheet for **SC110909**

### **GPR21 (NM\_005294) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR21 (NM_005294) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005294, the custom clone sequence may differ by one or more nucleotides

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ATGAACTCCACCTTGGATGGTAATCAGAGCAGCCACCCTTTTTGCCTCTTGGCATTGGCTATTTGGAAA  
CTGTCAATTTTTGCCTTTTGAAGTATTGATTATTGTCTTTCTAACTGTATTGATTATTTCTGGCAACAT  
CATTGTGATTTTTGTATTTCACTGTGCACCTTTGTTGAACCATCACACTACAAGTTATTTTATCCAGACT  
ATGGCATAATGCTGACCTTTTTGTTGGGGTGAGCTGCGTGGTCCCTTCTTTATCACTCCTCCATCACCCCC  
TTCCAGTAGAGGAGTCCCTTGACTTGCCAGATATTTGGTTTTGTAGTATCAGTTCTGAAGAGCGTCTCCAT  
GGCTTCTCTGGCCTGTATCAGCATTGATAGATACATTGCCATTACTAAACCTTTAACCTATAATACTCTG  
GTTACACCCTGGAGACTACGCCTGTGATTTTCCTGATTTGGCTATACTCGACCCTGGTCTTCTGCCTT  
CCTTTTTCCACTGGGGCAAACCTGGATATCATGGAGATGTGTTTCAGTGGTGTGCGGAGTCTGGCACAC  
CGACTCCTACTTCACCCTGTTTCATCGTGATGATGTTATATGCCCCAGCAGCCCTTATTGTCTGCTTCACC  
TATTTCAACATCTTCCGCATCTGCCAACAGCACACAAAGGATATCAGCGAAAGGCAAGCCCGCTTCAGCA  
GCCAGAGTGGGGAGACTGGGGAAGTGCAGGCCTGTCTGATAAGCGCTATGCCATGGTCTGTTTCGAAT  
CACTAGTGTATTTTACATCCTCTGGTTGCCATATATCATCTACTTCTTGTGGAAAGCTCCACTGGCCAC  
AGCAACCGCTTCGCATCCTTCTTGACCACCTGGCTTGCTATTAGTAACAGTTTCTGCAACTGTGTAATTT  
ATAGTCTCTCAAACAGTGTATTCCAAAGAGGACTAAAGCGCCTCTCAGGGGCTATGTGACTTCTGTGC  
AAGTCAGACTACAGCCAACGACCCTTACACAGTTAGAAGCAAAGGCCCTTAAATGGATGTCATATCTGA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005294 unedited  
 GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGTTCTGCAGTACGCGGG  
 TTGAAGCACATTCCTGCTTTGCAAGGCTTTCTGCTAAGGATGTATTGTGGCTTTTGT  
 GATTGCAGCATGCAGAATTACAGCTGTTTCAGAGGAGACTCATTACAACCTCTGCTGAAGC  
 TCCTAATCTTCTCCCTTCTCTTCTACCCTTTCCCTACCCTCACTTGGCCTGAAGACG  
 TTCTCCCAGAGTTTACCTTGCTCCCCTGGTGTATGTGTATGGTGAACCTGGCACTATG  
 GCCGCTCTGGGACTGGCCAGACAACCTGCTGCTGGCTCTCCTTATCCAGGAAGGATTTA  
 AAGGGGAATTGCACTGCAGGCAATGCACCAGAGCAGCAGCATCAGGAGCTTGGGGAGTAA  
 GGCTCCTCTGGCATTATTACACACATGCAAAGCTGACCGCAATGACAGCAGCTGCTTCTT  
 TGAAGTGTGGCAGCAGCAAGCGGCAGCATGAAGTGACAGATCACTCCTGAGCTCAAGA  
 TGAAGTCCACCTTGGATGGTAATCAGAGCAGCCACCTTTTGCCTTTGGCATTGGCT  
 ATTTGAAACTGTCAATTTTGCCTTTTGGAAAGTATTGATTATTGCTNTCTAACTGTAT  
 TGATTATTTCTGGGCACATCATTGTGATTNTTGTATTTCACTGTGCACCTTTGTTGAACC  
 CATCACACTACAGNTATNTATCCAGACTATGGCATATGCTGACCTTTNTGTTGGGGTGA  
 GCTGCGTGGTCCCTTNTTATCACTCCTCCATCACCCCTTCCAGTAGAGGGAGTCCCTG  
 ACTGCCACGATATTGGTNTGTAGTATCCAGTCTGAAGAGCGTCTCCATGGCTNCTCTGGC  
 CTGTATCAGCATTGAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005294 unedited  
 AGCTATGGACCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGAGTGT  
 AGATATGGCTTTATTCATTTTAAATCTGAGAAGTGTAGTCATTTCCAAGACATTTCAAAA  
 ATTGAGAGCAAGAGCAATTTGTCTTCATGATCTTGAGTCTTCTAATTCACAAGCACTTTT  
 GAAAACCATTTCTACAACTTAGAAGGTATCCATACGAATAATTTGTATGCTATTGTTTA  
 GAGTCAAAGTATTCTGTCCAGATTTCTAGTGAATTAGGAATACTTAGAGATAAAATAC  
 ACACACACACACACACACACACACACACACACGCGGAACCCGTAACCTGAGCCACTTCAGATA  
 TGACATCCATTAAGAGGGCCTTTGCTTCTAACTGTGTAAGGGTCGTTGGCTGTAGTCTGA  
 CTTGCACAAGAAGTACACATAGCCCTGAGAGGCGCTTTAGTCCTCTTTGGAATACACTG  
 TTGGAGAGACTATAAATTACACAGTTGCAGAACTGTTACTAATAGCAAGCCAGGTGGTC  
 AAGAAGGATGCGAAGCGGTTGCTGTGGCCAGTGGAGCTTTCCAACCAGAAGTAGATGATA  
 TATGGCAACCAGAGGATGAAAAACACTAGTGATTCGAAACAGGACCATGGCATAGCGC  
 TTATCAAGACAAGCCTGCACTTCCAGTCTTCCACTTTGGCTGTGAAGCGGGCTTGT  
 TTCGCTGATATCTTTGGGGGGCTGTGGCAAAGCCGGAATGGTAAAATAGGGAAGCAGA  
 AAATTAAGGCTGTGGGGGCTTTACAATCTCCCAAGAACAGGGTGAATAGGGAGTCGGGG  
 CCCGGACTTCCCAACCCGAAACATTTCTTGATTTTCAGTTTGCCTCCGGGAAAAGGAG  
 GGCGGGGACCCGGGGCGGTTTAGCCAATCGGAAATCCACGGGGGAGTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005294

**Insert Size:**

1960 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).

<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_005294.1</a> , <a href="#">NP_005285.1</a>
<b>RefSeq Size:</b>	1050 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	2844
<b>UniProt ID:</b>	<a href="#">Q99679</a>
<b>Cytogenetics:</b>	9q33.2
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	This gene encodes a member of the G-protein-coupled receptor 1 family. G-protein coupled receptors are membrane proteins which activate signaling cascades as a response to extracellular stress. The encoded protein activates a Gq signal transduction pathway which mobilizes calcium. [provided by RefSeq, Nov 2012]