

Product datasheet for **SC310553**

GPR40 (FFAR1) (NM_005303) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GPR40 (FFAR1) (NM_005303) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GPR40 |
| Synonyms: | FFA1R; GPCR40; GPR40 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF sequence for NM_005303 edited ATGGACCTGCCCCCGCAGCTCTCCTTCGGCCTCTATGTGGCCGCTTTGCGCTGGGCTTC CCGCTCAACGTCCTGGCCATCCGAGGCGGACGGCCACGCCGGCTCCGTCTACCCCT AGCCTGGTCTACGCCCTGAACCTGGGCTGCTCCGACCTGCTGCTGACAGTCTCTCTGCC CTGAAGGCGGTGGAGGCGCTAGCCTCCGGGGCCTGGCCTCTGCCGGCCTCGCTGTGCCCC GTCTTCGCGGTGGCCACTTCTCCCACTCTATGCCGGCGGGGGCTTCTGGCCGCCCTG AGTGCAGGCCGCTACCTGGGAGCAGCCTTCCCCTTGGGCTACCAAGCCTTCCGGAGGCCG TGCTATTCTGGGGGTGTGCGCGGCCATCTGGGCCCTCGTCTGTGTACCTGGGTCTG GTCTTTGGGTTGGAGGCTCCAGGAGGCTGGCTGGACCACAGCAACACCTCCCTGGGCATC AACACACCGGTCAACGGCTCTCCGGTCTGCCTGGAGGCCTGGACCCGGCCTCTGCCGGC CCGGCCCCGCTTACGCTCTCTCTCTGCTTTTTTCTGCCCTTGCCATCACAGCCTTC TGCTACGTGGGCTGCCTCCGGGCACTGGCCCACTCCGGCCTGACGCACAGCGGAAGCTG CGGGCCGCTGGGTGGCCGGCGGGCCCTCCTCACGCTGCTGCTCTGCGTAGGACCTAC AACGCCTCCAACGTGGCCAGCTTCTGTACCCCAATCTAGGAGGCTCCTGGCGGAAGCTG GGGCTCATCACGGGTGCCTGGAGTGTGGTGCTTAATCCGCTGGTGACCGGTTACTTGGGA AGGGTCTTGGCCTGAAGACAGTGTGTGCGGCAAGAACGCAAGGGGGCAAGTCCCAGAAG TAA |



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_005303 unedited GGCAGTCANAATTTGTATACGACTCACTATAGGCGGCCGCATCTAGATCGAGACTAGTTC CAGGGCTGGAACCCGCGAGTGATCCCAGGAGCCCTCCTCTCCGGGGCCCAAGATCTGA GGACAGGGAGCCAGGTTGCACACAGGAGCCGTGCAGGCCAGGACGGCGGCCCATGGACC TGCCCCCGCAGCTCTCCTTCGGCCTCTATGTGGCCGCCTTTGCGCTGGGTTCCCGCTCA ACGTCTGGCCATCCGAGGCGCAGGCCACGCCCGGCTCCGTCTACCCCTAGCCTGG TCTACGCCCTGAACCTGGGCTGCTCCGACCTGCTGTGACAGTCTCTGTGCCCTGAAGG CGGTGGAGGCGCTAGCCTCCGGGGCCTGGCCTCTGCCGGCTCGCTGTGCCCGTCTTCG CGGTGGCCCACTTCTTCCCACTCTATGCCGGCGGGGGCTTCTTGCCGCCTGAGTGCAG GCCGCTACCTGGGAGCAGCCTTCCCTTGGGCTACCAAGCCTTCCGGAGGCCGTGCTATT CCTGGGGGGTGTGCGCGGCCATCTGGGCCCTCGTCTGTGTACCTGGGTCTGGTCTTT GGGTTGGAGGCTCCAGGAGGCTGGCTGGACCACAGCAACACCTCCCTGGGCATCAACACA CCGGTCAACGGCTCTCCGGTCTGCCTGGAGGCTGGGACCCGGCCTCTGCCGGCCGGCC CGCTTCAGCCTCTCTCTCTGCTCTTTTTTCTGCCCTTGCCATCACAGCCTTCTGTAC GTGGGCTGCCTCCGGGACTGGCCACTCCGGCCTGACGCACAGGGCGGAAACTGCGGGC CGNCTGGGTGGCCGGCGGGGCCCTCTCACGCTGCTGCTCTGCGGTAGACCTTACAAGC CTCCAAGTGGGCCGCTTCTGTCT</p> |
| 3' Read Nucleotide Sequence: | <p>>Forward primer walk for NM_005303 unedited TACATAGGCTCTCCGNTGCCTGGNAGCCTGGNACCGGCCTTGCCGGCCCGGCCGCT TCAGCCTCTCTCTCTGCTCTTTTTTCTGCCCTTGCCATCACAGCCTTCTGTACGTGG GCTGCCTCCGGGACTGGCCACTCCGGCCTGACGCACAGGCGGAAGCTGCGGGCCGCT GGGTGGCCGGCGGGGCCCTCCTCACGCTGCTGCTCTGCGTAGGACCTACAACGCCTCCA ACGTGGCCAGTTCCTGTACCCCAATCTAGGAGGCTCCTGGCGGAAGCTGGGGCTCATCA CGGGTGCCTGGAGTGTGGTGCTTAATCCGCTGGTGACCGTTACTTGGGAAGGGTCTCTG GCCTGAAGACAGTGTGTGCGGCAAGAACGCAAGGGGGCAAGTCCCAGAAGTAACGCCACT GCTCGGGGAAGGAGCATGGGGCAGGAGGGCCCGGCTGCTTCTCAGGCCCTGCGGGGG GCTGCTTCGGAGGAAGTGCAGGGCAGCCTGGCCCGGAGGCTCCCTGGAGCCACTCAAGC AGAGAGCGGCCTGTGAGGGCAGCACCCAGTCAAGAGAGGAGCACCAGCCAGAGCA CCGTGGCAGGGGGAGGTAAGTTTGGCCCTGCACGTGTGAGGAAGTTTGTCCCTTCTCG CCTATCTTCTCTCCCTCTGCACGTCTCACCTGCCTGTCTTCCGTGGGCCGCGAGCAG AGGCTTGTACTTACGGGAAGGGAGGAGCAGTCTGTTTCTGACCCACNAGAACTGCCACT CCGGGTGATGCACTTTGAGGACAGCTACTCTGGAATCAGTTCGCCAGGAGAAACATTTGA TTTCCGAGTAGGGAGAGAC</p> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_005303 |
| Insert Size: | 1300 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: | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference. |
| 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_005303.1](#), [NP_005294.1](#)

RefSeq Size: 903 bp

RefSeq ORF: 903 bp

Locus ID: 2864

UniProt ID: [O14842](#)

Cytogenetics: 19q13.12

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes a member of the GP40 family of G protein-coupled receptors that are clustered together on chromosome 19. The encoded protein is a receptor for medium and long chain free fatty acids and may be involved in the metabolic regulation of insulin secretion. Polymorphisms in this gene may be associated with type 2 diabetes. [provided by RefSeq, Apr 2009]