

Product datasheet for **SC123817**

GPR3 (BC032702) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR3 (BC032702) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR3
Synonyms:	ACCA; adenylate cyclase constitutive activator; G protein-coupled receptor 3; OTTHUMP00000003475; OTTHUMP00000043209
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC032702 edited
CGCGGGGGTTTCTCGGGGTCCACGCACGCCCTGCGCCGCCAGGACCCGAGCGGAGCCTCC
CCGCGGCCCGGCCGCGCCTGGTCTGAGCGGTACCATGATGTGGGGTGCAGGCAGCCCTC
TGGCCTGGCTCTCAGCTGGCTCAGGCAACGTGAATGTAAGCAGCGTGGGCCAGCAGAGG
GGCCACAGGTCCAGCCGACCACTGCCCTCGCCTAAGGCCTGGGATGTGGTGTCTGCA
TCTCAGGCACCCCTGGTGTCTCTGCGAGAATGCGCTAGTGGTGGCCATCATCGTGGGCACTC
TGCCTTCCGTGCCCCCATGTTCTCTGCTGGTGGGCAGCCTGGCCGTGGCAGACCTGG
CAGGCCTGGGCTGGTCTGCACCTTGGTGTCTTCTGCATCGGCTCAGCGGAGATGA
GCCTGGTGTGGTGGCGTGTGCAATGGCCTTACCAGCCAGCATCGGCAGTCTACTGG
CCATCACTGTGACCGCTACCTTCTCTGTACAATGCCCTCACCTACTATTAGAGACAA
CAGTGACACGGACCTATGTGATGCTGGCCTTAGTGTGGGAGGTGCCCTGGGCTGGGGC
TGCTGCCTGTGCTGGCCTGGAAGTGCCTGGATGGCCTGACCACATGTGGCGTGGTTTATC
CACTCTCCAAGAACCATCTGGTAGTTCTGGCCATTGCCTTCTTCATGGTGTGGCATCA
TGCTGCAGCTCTACGCCAAATCTGCCGATCGTCTGCCGCCATGCCAGCAGATTGCC
TTCAGCGGCACCTGCTGCCTGCCTCCACTATGTGGCCACCCGCAAGGGCATTGCCACAC
TGGCCGTGGTGTGGAGCCTTGGCCGCTGCTGGTTGCCCTTCACTGTCTACTGCCTGC
TGGGTGATGCCCACTCTCCACCTCTCTACACCTATCTTACCTTGCCTGCCACCTACA
ACTCCATGATCAACCCTATCATCTACGCCTTCCGCAACCAGGATGTGCAGAAAGTGTGT
GGGCTGTCTGCTGCTGTTCCTTCCAAGATCCCCTTCCGATCCCGCTCCCCAGTG
ATGTCTAGCTGAGTCTTCATGACCTTCAACCCTGATTACTACAGAAATCCAGAATGTTA
GGCTCTCCAGGGCTTCTTCCAACCCAGCTCCACACCCCCAGACCCAGCTGGTTCT
GGAGTTCTAGGACATTGGGTGTTTCAAGTTCTGTTTCCAGATCCCTATGGGGGCCAGCTG
GCTCCACGGTCCAGAATGTTTCAAGTGGTCAAGTGTCTACTCAGAAATGTCTCACAGCC
AGCTGGGTTGCAATCCAGAATGCTGGGAGTTTTACAGTGCCATTCCAAGTCCCAGATGT
CCCTCTTCCCCAACTTGACCTTGACCATGTCACTTTACGTTTGAATTTCTGAGCTAAA
GAGTCAGAGAGATTAGTCACATAGTTGCCTAAATAGGAGAGAGAAAGATTATATATGCAC
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ACGATTTTGTATTATTTTGGATTATTTTTATCGAAGAGATCATAGAAACCAGAGCCT
TCTCCCCAGGCCTGCCCTCCTCGGTTTTGGAAGGGGAACACACCAGCCTCTGGTTTTTTA
TTTTTTAAGAAGCCATCACCTGAGCAACCAAAATTCCTCTGCGCTGGGGTCCGACTGC
CCTCTGGTGGCCATTTGGGGAAAAGTGCAGCCCGCCAGGCAGCTGGGACCAGAATGCAA
CCCCAGCTCCACTCCAGCCTGGCGTCCAGGGCCACAGCCATGGCCTGGGGGCCAAGCCTC
ACCCTGCGGTGCCCTAAAGGAGGGGGGCACGAGCCAACACCCACCCCTCTGCCAACCG
GGGTATGGCCCCAGTGCATTCCCTGTTCCCGTCTCCAACCAACTCAATAAAAAATGAT
TTTGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for BC032702 unedited
 GAGCGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTANATCTGGTACCATG
 ATGTGGGGTGCAGGCAGCCCTCTGGCCTGGCTCTCAGCTGGCTCAGGCAACGTGAATGTA
 AGCAGCGTGGGCCAGCAGAGGGGCCACAGGTCCAGCCGACCACTGCCCTCGCCTAAG
 GCCTGGGATGTGGTGTCTGCATCTCAGGACCCTGGTGTCTGCGAGAATGCGCTAGTG
 GTGGCCATCATCGTGGCACTCCTGCCTCCGTGCCCCATGTTCTGCTGGTGGGCAGC
 CTGGCCGTGGCAGACCTGCTGGCAGGCCGCTGGCCTGGTCTGCACCTTGGCTGTCTTC
 TGCATCGGCTCAGCGGAGATGAGCCTGGTGTGGTTGGCGTGCTGGCAATGGCCTTTACC
 GCCAGCATCGGCAGTCTACTGGCCATCACTGTCGACCGCTACCTTTCTGTACAATGCC
 CTCACCTACTATTAGAGACAACAGTGACACGGACCTATGTGATGCTGGCCTTAGTGTGG
 GGAGGTGCCCTGGCCTGGGGCTGCTGCCTGTGCTGGCCTGGAAGTGCCTGGATGGCCTG
 ACCACATGTGGCGTGGTTTATCCACTCTCAAGAACCATCTGGTAGTTCTGGCCATTGCC
 TTCTTCATGGTGTGGCATCATGCTGCAGCTCTACGCCAAATTTGCCGCATCCTCTGC
 CGCCATGCCAGCAGATTGCCCTTAGCGGCACCTGCTGGCTGCCTCCCATATGTGGCCA
 CCGCAAGGGATTGCCACTGGCCGTGGTGTGAGCCTTTGCCACTGTGGTTGCCCTT
 CAATGTCTATGGCTGGGGGGGAAGCCACTCCCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for BC032702 unedited
 GNGANGAGCACTGGGNGAGGTCACAGGTATGCCACCCGGGTCTGTTCCAGGAAACAGCT
 ATGACCGCGCCGCCAGTGTGATGGATATCTGCAGAATTCGGCTTGTGATGAAGACTCAG
 CTAGACATCACTGGGGAGCGGGATCGGAAGGGGATCTTGAAGAGGAACAGCAGCAGCA
 GACAGCCACAGCACTTTCTGCACATCCTGGTTGCGGAAGGCGTAGATGATAGGGTTGAT
 CATGGAGTTGTAGGTGGCAGGGAGCAAGTAAGATAGGTGTAGAGAGGTGGAGAGTGGGC
 ATCACCCAGCAGGCAAGTACAGTGAAGGGCAACCAGCAGGCGGCAAAGGCTCCAAGCAC
 CACGGCCAGTGTGGCAATGCCCTTGCGGGTGGCCACATAGTGGGAGGCAGGCAGCAGGTG
 CCGCTGAAGGGCAATCTGCTGGGCATGGCGGCAGACGATGCGGCAGATTTGGCGCTAGAG
 CTGCAGCATGATGCCAAACCATGAAGAAGGCAATGGCCAGAATACCAGATGGTTCTT
 GGAGAGTGGATAAACCACGCCACATGTGGTTCAGGCCATCCAGGCAGTTCAGGCCAGCAC
 AGGCAGCAGCCCCAGGCCAGGGCACCTCCCCACACTAAGGCCAGCATCATAGGTCCG
 TGTCACTGTTGTCTCTGAATAGTANGTGAGGGCATTGTACANAGAAAGGTAGCGGTCGAC
 AGTGATGGCCAATAAACTGCCCATGCTGGCGGTAAAAGCCATTGCCAGCAGCCAACCAG
 CACCAGGCTCATCTCCGCTGAGCCCATGCAGAAAACGGANNAATGCAGGACCAGGCC
 CAGCCTGCCAACCGGTCG

Restriction Sites:

Please inquire

ACCN:

BC032702

Insert Size:

1050 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).

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: [BC032702.1](#), [AAH32702.1](#)

RefSeq Size: 2145 bp

RefSeq ORF: 990 bp

Locus ID: 2827

Cytogenetics: 1p36.11

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene is a member of the G protein-coupled receptor family and is found in the cell membrane. G protein-coupled receptors, characterized by a seven transmembrane domain motif, are involved in translating outside signals into G protein mediated intracellular effects. The encoded protein activates adenylate cyclase and modulates amyloid-beta production in a mouse model, suggesting that it may play a role in Alzheimer's disease. [provided by RefSeq, Oct 2012]