

Product datasheet for **SC100901**

GPR97 (ADGRG3) (NM_170776) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR97 (ADGRG3) (NM_170776) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR97
Synonyms:	GPR97; PB99; PGR26
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_170776, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACGCCAGGGCCCTGGGGCCCTGCTCCTGCTCCTCCTGCTCCCGACCTCAGGTCAGGAAAAGC
CCACCGAAGGCCAAGAAACACCTGCCTGGGGAGCAACAACATGTACGACATCTCAACTTGAATGACAA
GGCTTTGTGCTTACCAAGTGCAGGCAGTCGGGCAGCGACTCCTGCAATGTGAAAACTTCAGAGATAC
TGGCTAAACTACGAGGCCATCTGATGAAGGAAGGTTTGACGCAGAAGGTGAACACGCCTTCTGAAGG
CTTTGGTCCAGAACCCTCAGCACCAACACTGCAGAAGACTTCTATTTCTCTCTGGAGCCCTCAGGTTCC
GAGGCAGGTGATGAAGGACGAGGACAAGCCCCCTGACAGAGTGCAGACTTCCCAAGAGCCTTTTTCGATCC
CTGCCAGGCAACAGGTCTGTGGTCCGCTTGGCCGTCAACATTCTGGACATTGGTCCAGGGACTCTTTCA
AGGGCCCCCGGCTCGGCCTGGGAGATGGCAGCGGCGTGTGAACAATCGCCTGGTGGGTTTGAGTGTGG
ACAAATGCATGTCACCAAGCTGGCTGAGCCTCTGGAGATCGTCTTCTCACCAGCGACCCCCCTAAC
ATGACCCTCACCTGTGTATTCTGGGATGTGACTAAAGGGACCACTGGAGACTGGTCTTCTGAGGGCTGCT
CCACGGAGGTGAGACTGAGGGACCGTGTGCTGTGACCACCTGACCTTTTTCGCCCTGCTCCTGAG
ACCCACCTTGGACCAGTCCACGGTGCATATCCTCACACGCATCTCCAGGCGGGCTGTGGGGTCTCATG
ATCTTCTGCGCCTTACCATTATTCTTTATGCCTTTCTGAGGCTTCCCGGGAGAGGTTCAAGTCAGAAG
ATGCCCAAAGATCCACGTGGCCCTGGGTGGCAGCCTGTTCTCCTGAATCTGGCCTTCTTGGTCAATGT
GGGGAGTGGTCAAAGGGTCTGATGCTGCCTGCTGGGCCGGGGGGCTGTCTTCCACTACTTCTGCTC
TGTGCCTTACCTGGATGGGCCTGAAGCCTTCCACCTTACCTGCTCGTGTGAGGGTCTTCAACACCT
ACTTCGGGCACACTTCTGAAGCTGAGCCTGGTGGGCTGGGGCTGCCCGCCCTGATGGTCATCGGCAC
TGGGAGTGCCAAACAGCTACGGCCTACACCATCCGTGATAGGGAGAACCACCTCTCTGGAGCTATGC
TGGTCCCGTGAAGGGACAACCATGTACGCCCTATATACCCGTCCACGGCTACTTCTCATCACCTTCC
TCTTTGGCATGGTGGTCTCGCCCTGGTGGTCTGGAAGATCTTACCCTGTCCCGTGTACAGCGGTCAA
GGAGCGGGGAAGAACCAGGAAGAAGGTGCTCACCTGCTGGGCCTCTCGAGCCTGGTGGGTGACATGG
GGGTTGGCCATCTTACCCCGTTGGGCCTCTCCACCGTCTACATCTTTGCACTTTTCAACTCCTTGAAG
GTGCTTTCATCTGCTGCTGGTTCACCATCCTTTACCTCCCAAGTCAGAGCACCACAGTCTCCTCTAC
TGCAAGATTGGACCAGGCCCACTCCGCATCTCAAGATAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_170776 unedited

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TGCACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACCAGGGCCCAGAGGCC
AGACAGCCACANAGCTCCTGGCGTGGGCAAGGCTGGCCAAGGATGGCGACGCCAGGGGG
CTGGGGGGCCCTGCTCCTGCTCCTCCTGCTCCCGACCTCAGGTCAGGAAAAGCCCACCGAA
GGGCCAAGAAACACCTGCCTGGGGAGCAACAACATGTACGACATCTTCAACTTGAATGAC
AAGGCTTTGTGCTTACCAAGTGCAGGCAGTCGGGCAGCGACTCCTGCAATGTGAAAAAC
TTGCAGAGATACTGGCTAAACTACGAGGCCCATCTGATGAAGGAAGGTTTGACGCAGAAG
GTGAACACGCCTTCTGAAAGGCTTTGGTCCAGAACCTCAGCACCAACACTGCAGAAGAC
TTCTATTTCTCTCTGGAGCCCTCAGGTTCCGAGGCAGGTGATGAAGGACGAGGACAAG
CCCCCTGACAGAGTGCAGACTTCCCAAGAGCCTTTTTTCGATCCCTGCCAGGCAACAGGTCT
GTGGTCCGCTTGGCCGTCAACATTCTGGACATTGGTCCAGGGACTCTTCAAGGGCCCC
CGGCTCGGCTGNGAGATGGCAGCGGCGTGTGAACAATCGCCTGGTGGGTTTGAGTGTG
GGACAAATGCATGTCACCAAGCTGGCTGAGCCTCTGGAGATCGTCTTCTCACCAGCGA
CCGNCCNCTACATGACCCTCACCTGTGTATTCTGGGATGTGACTAAAGGGACCACTGGA
GACTGGTCTTNTGAGGCTGCNTACCCGAGTCAAACCTGAGGGGACCGTGTGCTGCTGT
GACCACCTGACCCTTTTCGNCCTGCTCCTGAGACCACCTTGACCAGTNCACGTGCATAT
CCTCACACGCATCTCCAGCGGGCTGTGGGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_170776 unedited CTAGNGATCGATTCCAGCCAACAAATATT TATTCAAGGTTTGCCACGAGCCAACCCCTGTGCTTGGCCTGGGCTGGAACAGTAAGCGGG GCCACCCAGGTCTTGTCTCTAGGAGCTCAGGTCCTAGTGGCAATGCCAGCCTCTGCT CAGGGGCCCCACACACTGAATGAGTGGGAGCACCCCAAGTGTGCTGAGCCCAATTGT TTGCTTTCTACCTCTACAATGACAGCAGGTCAAAGTTCGGGCCACCCACGTGGCAGTCAA AGTCAGGAGTGGNGGGGTTTGCCTAAGGTAGCTCACCCACTCAGTGGTTCTTTGAAATGC AGTGTCCCTGGACACGTGCAGGGCTGCCAGCACTCTGAACACGGGGTCTCTCCAGGAG GGTGGGCTCTGATTGGATGGGCAAAAACAGGGCAACTGGGTTGGGAGGATCAACTCC CACCCCCAAAACATAACCCCGTGCCTGAAGGAACGCTGGCCTCCTGAATGCCCTCCA GGTACAGGCAGCATNAAGGGGATTGTTGGGAGGCCCGTGACAAGGAGGAGGAAGAAAA AGCCTGNCCTCCTTCAAGGGGAACACGGGCAACAAGACTCTCCTCCTTGTGGAACCAA GAGGGGATGGAGCCTTACGTGAAGGCCGAGCAGGAGGGGAAATGAACTTCTTTCCGN GNAGGGGTCGCAAAGCANCAGNAACTTTNACCCAGTCAAAGGTGTANAGAGGAGTAA CGAACAAAATTGAGACGAGCGAGGAGCAAAAAAGCAAACGACCAAGCACAAAACCAAC AAAACCACCCACATACATGTTANANCGAAAAACGAGTCGGTAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_170776
Insert Size:	2750 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:	<ol style="list-style-type: none"> 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:	<u>NM_170776.3, NP_740746.3</u>
RefSeq Size:	2681 bp
RefSeq ORF:	1650 bp
Locus ID:	222487
UniProt ID:	<u>Q86Y34</u>
Cytogenetics:	16q21
Protein Families:	Druggable Genome, GPCR, Transmembrane

Gene Summary:

Orphan receptor that regulates migration of lymphatic endothelial cells in vitro via the small GTPases RhoA and CDC42 (PubMed:24178298). Regulates B-cell development (By similarity). Seems to signal through G-alpha(q)-proteins (PubMed:22575658).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).