

## Product datasheet for **SC116833**

### GN5 (NM\_005274) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GN5 (NM_005274) Human Untagged Clone
Tag:	Tag Free
Symbol:	GN5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005274 edited ATGTCTGGCTCCTCCAGCGTCGCCGCTATGAAGAAAGTGGTTCAACAGCTCCGGCTGGAG GCCGGACTCAACCGCGTAAAAGTTTCCCAGGCAGCTGCAGACTTGAACAGTTCTGTCTG CAGAATGCTCAACATGACCCTCTGCTGACTGGAGTATCTTCAAGTACAAATCCCTTCAGA CCCCAGAAAGTCTGTTCCCTTTTTGTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005274 unedited TCATATTTTGAATACGACTCACTTATAGGGCGGCCGCGATTCCGGCAGCAGCACGAATCG GCCCGGCCGTCGCGTGCACCATGTCTGGCTCCTCCAGCGTCGCCGCTATGAAGAAAGTGG TTCAACAGCTCCGGCTGGAGGCCGGACTCAACCGCGTAAAAGTTTCCCAGGCAGCTGCAG ACTTGAACAGTTCTGTCTGCAGAATGCTCAACATGACCCTCTGCTGACTGGAGTATCTT CAAGTACAAATCCCTTCAGACCCAGAAAGTCTGTTCCCTTTTTGTAGTAAATGAATCTT TCAAAGGTTTCCCAAACCACTCCTTATGATCCAGTGAATATTCAAGAGAGCTACATTTGA AGCCTGTACAAAAGCTTATCCCTGTAACACATGTGCCATAATATACAAACTTCTACTTTT GTCAGTCTTAACATCTACCTCTCTGAATTTTCATGAATTTCTATTTTACAAGGGTAATT GTTTTATATACTACTGGCAGCAGCATACAATAAACTTAGTATGAACTTTAAAAAAAAAAAA AAAAAAAAAACTCGACTCTAGATTGGCGCCGCGGTATAGCTGTTTCTGAACAGATCCCG GGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAG TGCCACACAGCCTTGTCCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCT TCTTTNTATTATGGGGTGAAGGGTTGGGGTTTGGGNACCAAGGGGCAAGTTGGGGAAAA CAACCTGTANGGCCTGCGGGTCTATTGGGAACCAGCTGGAGTGCAGTGGCACAATCTTG GCTACTGGCATCTCGCTNCTGGGGTCAAGCGATCTCTGCTCAGCTCCGAGTNGTTGGGAT TCCAGTCTGCTGACCAGCTACTATTTTTGTTTTTTGATAAAACAGGGTTTACATATGCCA GNCTGTNCTCACTCT



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005274 unedited GGGGGGCGAGGACGAACCTTTTTNNNNNNNTTCTTGNNACCCGGCCGATTTANGATC GGTTTTTTTTTTTTTTTTTAAAGTTTCTACTAAGTTTATTGTATGCTGCTGCCAGTGT ATATAAAACAATTACCCTTGTGAAATAGAAATTCATGAAAATTCAGAGAGGTAGATGTTA AGGACTGACGAAAGTAGAAGTTTGTATATTATGGCACATGTGTTACAGGGATAAGCTTTT GTACAGGCTTCAAATGTAGCTCTCTTGAATATTCAGTGGATCATAAGGAGTGGTTTGGGA AACCTTTGAAAGATTCATTTTACTACAAAAGGAACAGACTTTCTGGGGTCTGAAGGGAT TTGTACTTGAAGATACTCCAGTCAGCAGAGGGTCATGTTGAGCATTCTGCAGACAGAAT GTTTCAAGTCTGCAGCTGCCTGGGAACTTTTACGCGGTTGAGTCCGGCCTCCAGCCGGA GCTGTTGAACCACTTTCTTCATAGCGGCGACGCTGGAGGAGCCAGACATGGTGCACGCGA CGGCCGGGCCGATTCTGCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTAC AAAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCT ACCGNCCATTTGCGTCAACGGGGCGGNGTTTATACGACATTTTNGAAAGTCCCCGTGATT TTTGTGCCAAAACAATCCATTGACGTCAATGGGGTGGAGACTTNGNAATCCCCGTGAG TCAAACCGTATCCAGCCCAATTGTGTACTGCCAAACCGCATCACATGGTAAATAGCGATGA CTAATACGTAAATGACTGCCAAGTAGAAAGTCCGGAAGGTCATGTACTGGGCATAAGGCA GGCGGGCCATTAACCGCATTGACGTCAAAGGGGGCGGACTTGCTTATAAACACTTGAGTC CTGCCAAGTGCGCATTTACCCGAAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005274
<b>Insert Size:</b>	570 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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_005274.1</a> , <a href="#">NP_005265.1</a>
<b>RefSeq Size:</b>	698 bp
<b>RefSeq ORF:</b>	207 bp
<b>Locus ID:</b>	2787
<b>UniProt ID:</b>	<a href="#">P63218</a>
<b>Cytogenetics:</b>	1p22.3
<b>Domains:</b>	G-gamma

**Protein Pathways:** Chemokine signaling pathway

**Gene Summary:** G proteins are trimeric (alpha-beta-gamma) membrane-associated proteins that regulate flow of information from cell surface receptors to a variety of internal metabolic effectors. Interaction of a G protein with its activated receptor promotes exchange of GTP for GDP that is bound to the alpha subunit. The alpha-GTP complex dissociates from the beta-gamma heterodimer so that the subunits, in turn, may interact with and regulate effector molecules (Gilman, 1987 [PubMed 3113327]; summary by Ahmad et al., 1995) [PubMed 7606925]. [supplied by OMIM, Nov 2010]