

## Product datasheet for SC113379

### G gamma12 (GNG12) (NM\_018841) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	G gamma12 (GNG12) (NM_018841) Human Untagged Clone
Tag:	Tag Free
Symbol:	G gamma12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113379 sequence for NM_018841 edited (data generated by NextGen Sequencing) ATGTCCAGCAAAACAGCAAGCACCAACAATATAGCCCAGGCAAGGAGAACTGTGCAGCAG TTAAGATTAGAAGCCTCCATTGAAAGAATAAAGGTTTCGAAGGCATCAGCGGACCTCATG TCTACTGTGAGGAACATGCCAGGAGTGACCCTTTGCTGATAGGAATACCAACTTCAGAA AACCCCTTCAAGGATAAAAAAATTGCATCATCTTATAG

Clone variation with respect to NM\_018841.5

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018841 unedited NCCCTTGTGCAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGCGGAGC CGTCTCCAGGAGCCCTTAGAGACCGAGTCCCGGCGGCGACGGCGGGCAGCGCACCCGGCA GGCGGATTCATTCCACTTAAAACCTGAAAACATTGGACCACACAAAGTCTTACTGATTTTC AGGTA AAAACAATAATTGAAGATGTCCAGCAAAACAGCAAGCACCAACAATATAGCCCAG GCAAGGAGAACTGTGCAGCAGTTAAGATTAGAAGCCTCCATTGAAAGAATAAAGGTTTCG AAGGCATCAGCGGACCTCATGCTCTACTGTGAGGAACATGCCAGGAGTGACCCTTTGCTG ATAGGAATACCAACTTCAGAAAACCCCTTCAAGGATAAAAAAATTGCATCATCTTATAG TGGAATAGAGAAACAGCTCCTCGCCTCTCCCAACAACGCANATTATGAGCAGCTCCTTG AAGAGATTTACCTTCAGCTTATTTGGTAACCACTGCTAATAACTAAAATGTTCTCAGCTT GGAATAATGGACTCTGAAGTCTCTATTTTCCAAGTTGCTCTTTCTCTTAAATACCCNTA CTGATTTAATACAGAATAACAATCTTATTTTCCACTTGGTAACTATGGCTNTATGNTTGG TTACTGTTAAGGAAGTTGATCTGGCCTTTTTTAAAACATAATTATATACTTTAGAAAA TACAGGGATTCCGATATGTCAGGACCTAAATGGNNCTAGCACCTGTCANATTANNNNATC CAAATTCATTNGAATCCTANAGCCTTGATATTATATTCTNTATAANGGCGTGTGCCAGCC TGTATAGTATATAGAAGAGAGGGNNNGTTGGGNGATAAATATATGGCCCTTTGTGTAT ACACTTATCAAAGCTATA
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_018841 unedited NNNNCCCCNCCCNNNNNNTTCCCCCACCTTCCCCCTNCCCCCAATCCTTGACTTTAG CACCGCGGCCGCCATNCTANGATCGGTTTTTTTTTTTTTTTTTTTTTTTAAAGCATGGT GCTTTTAAATGAACTTCTTTCAAATCTGTGAACATGCTAGCTGTGAAGTACATGCTTTTA TTCTTTCCATAGGACATATTTCCAAATAATGACCACAGCATTATGGTTAATAAGATGCTG GACAGATGCGTACCCAAAGCAATATTACATAACAACAAAATCTCATCACTGATATATCAA ATGCCAATTTACTAAGCACATCAAGAGAATATCTGTTTGTAGTTACATGGCTAAAAACAA GACATTATTACAGTCACCAAGTCCATAAAACTACAAAAAAGCACTGTCTAACCCAAAGG CCTTTTAGAAGCTTTTACAATGAACCACACATTATAGATACACCAATTTTACATCTGAAG CACCTTATACCACCCCCACCCTGGAACGACCAACACAGGGGTGGGGCCTTTGGACCAACG CATCTGCGAACAGCAAGGGCTCTCACCCCTCACTTACCGCCCCCCTTGTTTTACCCAC GGACAACCCCATGCCATACCGACCACCCCTTCCCCCAGCCTTCCCCCAGGATTA CACCGTCAAAGCACCCACCGCCCCGATCCCCGTTTCTCGATTTTCATGATCTCCCCTCAT TCTCCCCCCTCATCCCTTTTCTTTCCCCCGTCTTTCCTCTCTCCCCTTTCCC GGCTTCCCTTACTTAAACCCCTTCCACTCTATTGTACTTTGGTCAATGCCCTATCTCC CCGTCCCCATCCCTCCATGTATTCTACCCCTCCCGGCCTCTTCATTCACCCACCCCC CCACTAAATATCAGCCAATCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018841
<b>Insert Size:</b>	4260 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_018841.3</a> , <a href="#">NP_061329.3</a>
<b>RefSeq Size:</b>	4399 bp
<b>RefSeq ORF:</b>	219 bp
<b>Locus ID:</b>	55970
<b>UniProt ID:</b>	<a href="#">Q9UBI6</a>
<b>Cytogenetics:</b>	1p31.3
<b>Domains:</b>	G-gamma
<b>Protein Families:</b>	Druggable Genome

**Protein Pathways:** Chemokine signaling pathway, MAPK signaling pathway, Regulation of actin cytoskeleton

**Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProtKB/Swiss-Prot Function]