

Product datasheet for **SC126328**

G0 Protein alpha (GNAO1) (BC030027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G0 Protein alpha (GNAO1) (BC030027) Human Untagged Clone
Tag:	Tag Free
Symbol:	G0 Protein alpha
Synonyms:	DKFZp686O0962; G-ALPHA-o; GNAO; guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O; guanine nucleotide binding protein, alpha activating polypeptide O
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 BC030027 edited
TCTAAGAGGATGGCATCAGCGCCGCAAAGACGTGAAATTA CTCTGCTCGGGGCTGGAG
AATCAGGAAAAAGCACCATTGTGAAGCAGATGAAGATCATCCATGAAGATGGCTTCTCCG
GAGAAGACGTGAAACAGTACAAGCCTGTTGTCTACAGCAACACTATCCAGTCCCTGGCAG
CCATCGTCCGGGCCATGGACACTTTGGGCATCGAATATGGTGATAAGGAGAGAAAAGGCTG
ACGCCAAGATGGTGTGTGATGTGGTGAGTCGGATGGAAGACACCGAGCCCTTCTCTGCAG
AGCTGCTTTCTGCCATGATGCGGCTCTGGGGCGACTCAGGAATCCAAGAGTGCTTCAACC
GGTCCCGGGAGTATCAGCTCAACGACTCTGCCAAATACTACCTGGACAGCCTGGATCGGA
TTGGGGCCCGCGACTACCAGCCACCGAGCAGGACATCCTCCGAACCAAGGTCAAAAACCA
CTGGCATCGTAGAAACCACTTACATTCAAGAACCTCCACTTCAGGCTGTTTGACGTCG
GAGGCCAGCGATCTGAACGCAAGAAGTGGATCCATTGCTTCGAGGACGTCACGGCCATCA
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GCATGCACGAGTCTCTCATGCTCTTCGACTCCATCTGTAACAACAAGTTCTTCATCGATA
CCTCCATCATTCTTCTCAACAAGAAAGATCTCTTTGGCGAGAAGATCAAGAAGTCAC
CTTTGACCATCTGCTTTCTGAATACACAGGCCCAATACCTATGAAGACGCAGCCGCT
ACATCCAAGCACAAATTTGAAAGCAAAAACCGCTCACCCAACAAAGAAATATATTGTCACA
TGACTTGTGCCACAGACCGAATAACATCCAGGTGGTGTTCGACGCCGTACCGACATCA
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AGGAAAACCTCACATTTTATCCATATTTCTTTTTCTTGCAAAAACAACATACCCATCTGC
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AGGGGTTTTTTGGTTCCTTTTTTTTTTTTTTTTCAGTTTTTGTCTTTACTTTTGTCCCGCC
AGTACTATGTATTACCAGCCCCCACCACAGATCAGTTTTCTAGTCTTTGGGAAACG
GGTTGTGTTTTTTTCTTTTGCAGTGTTGGATTTCCGGTCCCGGCTGACACCTCCCTTCG
TGTGTGCGCCCTCCCCACCCCTGCCTTTGTTTCGGTGCCCTGTGTCCGCTCTCTCATGT
GGGGATGTTTGTGCTGCAGACAAAAAGAACAATAAAAAATTTTTAAATACCACAAGATGG
AAAAAAAACAATAAAATTTAAAAAGATGGAAATGTAGTGTACATTAAGCCCGCGTTT
TCATGACCAATCCTATGTCAATTTCTACTTTGACTAATACCCAAACCCTAAACATCTTAC
GGTTTCACTTTTAAGACTTAATCTTTGCTGAAGAAGACCAGTCACAGCCATTTCAATAA
AGAGGAGGCAAAAAGACAAAACACAAAAAATTAATAAAAAAAAAACTTAAAAAAAAAAGG
AAAAAAGAAAAAAGCCACGGGCTTTTGTAAAGCCTTTCTATTCCCAATCGGTGAGGTT
TCTGTGATATCTTACACACTGCCAGTCTACTTCTGACTAATGGAAAATTCCTGTGTAG
CTCAATAAAAGAGAATGTTTGTCTGCAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC030027 unedited NGGGGGTCAGATTTCTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATAACAT TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGTCTAA GAGGATGGCATCAGCGCCGCCAAAGACGTGAAATTACTCTGCTCGGGGCGTGGGAGAAT CAGGGAAAAAGCACCATTTGTGAAGCAGATGAAGATCATCCATGAAGATGGCTTCTCCGGA GAAGACGTGAAACAGTACAAGCCTGTTGTCTACAGCAACTATCCAGTCCCTGGCAGCC ATCGTCCGGGCCATGGACACTTTGGGCATCGAATATGGTGATAAGGAGAGAAAAGGCTGAC GCCAAGATGGTGTGTGATGTGGTGAGTCCGATGGAAGACACCGAGCCCTTCTGTCAGAG CTGCTTTCTGCCATGATGCGGCTCTGGGCGACTCAGGAATCCAAGAGTGCTTCAACCGG TCCCGGGAGTATCAGCTCAACGACTCTGCCAAATACTACCTGGACAGCCTGGATCGGATT GGGGCCGCCGACTACCAGCCCACCGAGCAGGACATCCTCCGAACCGGTCAAAACCACT GGCATCGTAGAAACCACTTCACATTCAAGAACCTCCACTTCAGGCTGTTTGACGTCGGA GGCCAGCGATCTGAACGCAAGAAGTGGATCCATTGCTTCGAGGACGTACGGCCATCATT TTCTGTGTCGCGCTCAGCGGCTATGACCAGGTGCTCCACGAAGACGAAACCAACCGC ATGCACGAGTCTCTCATGCTCTTCGACTCCATCTGTGACAACAAGTGTCTTCATCGATAC CTCATCATTCTTCTTCTCAACAAGAAAGATCTCTTTGGCGAGAAGATCAAAAN
Restriction Sites:	NotI-NotI
ACCN:	BC030027
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:	BC030027.2 , AAH30027.2
RefSeq Size:	2380 bp
Locus ID:	2775
Cytogenetics:	16q13
Protein Families:	Druggable Genome
Protein Pathways:	Long-term depression, Melanogenesis
Gene Summary:	The protein encoded by this gene represents the alpha subunit of the Go heterotrimeric G-protein signal-transducing complex. Defects in this gene are a cause of early-onset epileptic encephalopathy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]