

## Product datasheet for **SC114804**

### **FIG4 (NM\_014845) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FIG4 (NM_014845) Human Untagged Clone
Tag:	Tag Free
Symbol:	FIG4
Synonyms:	ALS11; BTOP; CMT4j; dj249I4.1; KIAA0274; SAC3; YVS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014845, the custom clone sequence may differ by one or more nucleotides

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ATGCCACGGCCGCCCCCATCATCAGCTCGGTCCAGAAGCTGGTCTGTATGAGACTAGAGCTAGAT
ACTTTCTAGTTGGGAGCAATAATGCAGAAACGAAATATCGTGTCTTGAAGATTGATAGAACAGAACCAA
AGATTTGGTCATAATTGATGACAGGCATGTCTATACTCAACAAGAAGTAAGGGAACCTTCTGGCCGCTTG
GATCTTGAAATAGAACAAGATGGGACAGAAAGGATCCTCGGGCTTATTTTCGAGCGGTTTCAGCTTTTG
GTGTTGTGGGTTTTGTCAGGTTCTTAGAAGGCTATTATATTGTGTTAATAACTAAAAGGAGGAAGATGGC
GGATATTGGAGGTCATGCAATCTATAAGGTGCAAGATACAAATATGATCTATATACCCAATGATTCTGTA
CGGTTACTCATCCTGATGAAGCTAGGTATCTACGAATTTTCAAATGTGGACCTATCTAGCAATTTTT
ACTTTAGTTACAGCTATGATTTGTCCACTCACTTCAATATAATCTCACTGTCTTGCGAATGCCCTGGA
GATGTTAAAGTCAGAAATGACCCAGAATCGCCAAGAGAGCTTTGACATCTTGAAGATGAAGGATTAATT
ACACAAGTGGAAGCGGGTATTTGGGATCTGTAGTGAGCCTTATATGAAATATGTATGGAATGGTGAAC
TTCTGGATATAATAAAAGTACTGTGCATCGTGACTGGCTTTTGTATATTATTCATGGGTTCTGTGGCA
GTCAAAGCTGTTGATCTATGGACGACCAGTGATGTCACCTAATAGCTAGAAGATCCAGTAAATTTGCT
GGCACCCGTTTTCTAAAAGAGGTGCAAACCTGTGAGGGTGTGTTGCAAATGAAGTGGAGACTGAACAAA
TACTCTGCGATGCTTCTGTGATGCTTTTCACTGCAGGAAGTTATTTCTTATATGTACAAGTTAGAGGATC
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TCTTGAATTTAGTGAAGGAACGAGAGAAAAGAAAGCATGAAAGAATTCTGAGTGAAGAATTGTTGCTGC
TGTGACCTATCTCAACCAATTTTGCCTCCTGAGCACACTATTGTTTATATTTCCCTGGGACATGGCCAAG
TATACAAAAGCAAGCTGTGTAATGTTCTTGTATCGACTAAATGTGATTGCAGAAAGTGTGGTGAAGAAA
CAGGTTTTCTTTGTAACCAGGCTGATTCTTACTGTAGCATTGCGGCCAGATGAAAAGTGAATGAAT
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GATCGCACCAACACAGCACAGTTTATGGTGGGAAAATGTGCTCTGGCCTATCAGCTGTATTCAGTGGGAC
TGATTGACAAACCTAATCTACAGTTTGATACAGATGCAGTTAGGTTATTTGAGGAACTCTATGAAGATCA
TGGTGATACCCTATCCCTCAGTATGGTGGTCTCAACTGTTTCATCGTGTGAAAACCTACAGAAAGATA
GCACCATGGACCCAGCACTCAAAGACATCATGCAAACCTGTCTAGATATTACAGCAATGCTTTTTTCAG
ATGCCGATAGACAAGATCCATTAATCTCTTCTGGGAGTTTCCATCCCAGTGAAGGAAACCTCATCT
CTGGGAGCTCCCAACAGATTTTTATTTGCATCACAAAAATACCATGAGACTTTTGCCAACAAGAAGAAGT
TATACTTACTGGTGGACACCAGAGGTGATAAAGCATTACCATTGCCCTATGATGAAGTTATCTGTGCTG
TGAACCTAAAGAAGTTGATAGTGAAGAAATCCACAAATATGAAGAAGAGATTGATATCCACAATGAGTT
CTTTCGGCCATATGAGTTGAGCAGCTTTGATGATACCTTTTGGCTTGGCTATGACAAGCTCAGCACGTGAC
TTTATGCCTAAGACCGTTGGAATTGATCCAAGTCCATTTACTGTGCGTAAACCAGATGAAACTGGAAAAT
CAGTATTGGGAAACAAAAGCAATAGAGAAGAAGCTGTATTACAGCGGAAAACGGCAGCCAGCGCCCGCC
GCCCCCAGCGAGGAGGCTGTGTCCAGCAGCTCTGAGGATGACTCTGGGACTGATCGGGAAGAAGAGGGC
TCTGTGCTCAGCGCTCCACTCCCGTGAAGTACTGATGCAGGAGACAGTGCCAAAGTGACCGAGAATG
TGGTCCAACCCATGAAGGAGCTATATGGAATTAACCTCTCAGATGGCCTCTCAGAAGAAGATTTTCCAT
TTATTCAGATTTGTTTCAGCTGGGCGAGAGTCAACATAAACAAGACAAGAATAGCCAGCAGCCCTGTTCT
AGGTGCTCAGATGGAGTTATAAACTAACCCATCTCGGCTTTCTCGCAAGATAACATCTATGAAGTTC
AGCCCCAAGAGTAGACAGAAAATCTACAGAGATCTTCCAAGCCACATCCAGGCCAGCCAAGGTATCAT
GCAGCCCCTAGGAAAAGAGGACTCTCCATGTACCAGAGTACATCAGGAACCGTACTCTGTGA
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**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3084\\_b06.zip](https://cdn.origene.com/chromatograms/ja3084_b06.zip)

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_014845

**Insert Size:** 3050 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_014845.4</a> , <a href="#">NP_055660.1</a>
<b>RefSeq Size:</b>	3089 bp
<b>RefSeq ORF:</b>	2724 bp
<b>Locus ID:</b>	9896
<b>UniProt ID:</b>	<a href="#">Q92562</a>
<b>Cytogenetics:</b>	6q21
<b>Domains:</b>	Syja_N
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the SAC domain-containing protein gene family. The SAC domain, approximately 400 amino acids in length and consisting of seven conserved motifs, has been shown to possess phosphoinositide phosphatase activity. The yeast homolog, Sac1p, is involved in the regulation of various phosphoinositides, and affects diverse cellular functions such as actin cytoskeleton organization, Golgi function, and maintenance of vacuole morphology. Membrane-bound phosphoinositides function as signaling molecules and play a key role in vesicle trafficking in eukaryotic cells. Mutations in this gene have been associated with Charcot-Marie-Tooth disease, type 4J. [provided by RefSeq, Jul 2008]