

Product datasheet for **RC207192**

FIG4 (NM_014845) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>RC207192 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCACGGCCGCCGCCCCATCATCAGCTCGGTCCAGAAGCTGTTCTGTATGAGACTAGAGCTAGAT
ACTTTCTAGTTGGGAGCAATAATGCAGAAACGAAATATCGTGTCTTGAAGATTGATAGAACAGAACCAAA
AGATTTGGTCATAATTGATGACAGGCATGTCTATACTCAACAAGAAGTAAGGGAACCTTCTGGCCGCTTG
GATCTTGAAATAGAACAAAGATGGGACAGAAAGGATCCTCGGGCTTATTTGAGCGGTTTCAGCTTTTG
GTGTTGTGGGTTTTGTCAGGTTCTTAGAAGGCTATTATATTGTGTTAATAACTAAAAGGAGGAAGATGGC
GGATATTGGAGGTCATGCAATCTATAAGGTCGAAGATACAATATGATCTATATACCCAATGATTCTGTA
CGGTTACTCATCCTGATGAAGCTAGGTATCTACGAATATTTCAAATGTGGACCTATCTAGCAATTTTT
ACTTTAGTTACAGCTATGATTTGTCCACTCACTTCAATATAATCTCACTGTCTTGCGAATGCCCTGGA
GATGTTAAAGTCAGAAATGACCCAGAATCGCCAAGAGAGCTTTGACATCTTTGAAGATGAAGGATTAATT
ACACAAGGTGGAAGCGGGTATTTGGGATCTGTAGTGAGCCTTATATGAAATATGTATGGAATGGTGAAC
TTCTGGATATAATTAAGTACTGTGCATCGTACTGGCTTTTGTATATTATTCATGGGTTCTGTGGCA
GTCAAAGCTGTTGATCTATGGACGACAGTGTATGTCACTCTAATAGCTAGAAGATCCAGTAAATTTGCT
GGCACCCTTTTCTTAAAGAGGTGCAAACCTGTGAGGGTGTGTTGCAAAATGAAGTGGAGACTGAACAAA
TACTCTGCGATGCTTCTGTGATGTCTTCACTGCAGGAAGTTATCTTCATATGTACAAGTTAGAGGATC
TGTGCCCTTAACTGGTCTCAGGACATTTCAACTATGATGCCTAAACCACCTATTACATTGGATCAGGCA
GATCCATTTGCACATGTGGCTGCCCTTCACTTTGACCAGATGTTCCAGAGGTTTGGCTCTCCCATCA
CTTGAATTTAGTGAAGGAACGAGAGAAAAGCATGAAAGAATTTGAGTGAAGATGTTGTTGCTGC
TGTGACCTATCTCAACCAATTTTGCCTCTGAGCACACTATTGTTTATATTCCTGGGACATGGCCAAG
TATACAAAAGCAAGCTGTGTAATGTTCTTGTGACTAAATGTGATTGCAGAAAGTGTGGTGAAGAAAA
CAGGTTTCTTTGTAACCCGCCCTGATTCTTACTGTAGCATTGTCGGCCAGATGAAAAGTGAATGAACT
AGGAGGATGTGTGATTCCACTGGTGCCTGCAGACTGGCATCCTCGAACCAACTGTGTGGACTGTTTA
GATCGCACCAACACAGCACAGTTTATGGTGGGAAAATGTGCTCTGGCCTATCAGCTGATTCACTGGGAC
TGATTGACAAACCTAATCTACAGTTTGATACAGATGCAGTTAGGTTATTTGAGGAACTCTATGAAGATCA
TGGTGATACCCTATCCCTCAGTATGGTGGTTCTCAACTGTTTCATCGTGTGAAAACCTACAGAAAGATA
GCACCATGGACCCAGCACTCAAAGACATCATGCAAACCTGTCTAGATATTACAGCAATGCTTTTTTCAG
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CTGGGAGCTCCCAACAGATTTTTATTTGCATCACAAAAATACCATGAGACTTTTGCCAACAAGAAGAAGT
TATACTTACTGGTGGACACCAGAGGTGATAAAGCATTACCATTGCCCTATGATGAAGTTATCTGTGCTG
TGAACCTAAAGAAGTTGATAGTGAAGAAATCCACAAATGAAGAAGAGATTGATCCACAATGAGTT
CTTTGGCCATATGAGTTGAGCAGCTTTGATGATACCTTTTGTGGCTATGACAAGCTCAGCACGTGAC
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CAGTATTGGGAAACAAAAGCAATAGAGAAGAAGCTGATTACAGCGGAAAACGGCAGCCAGCGCCCGCC
GCCACCCAGCGAGGAGGCTGTGCCAGCAGCTCTGAGGATGACTCTGGGACTGATCGGGAAGAAGAGGGC
TCTGTGTCTCAGCGCTCCACTCCCGTGAAGATGACTGATGCAGGAGACAGTGCCAAAGTGACCGAGAATG
TGGTCCAACCCATGAAGGAGCTATATGGAATTAACCTCTCAGATGGCCTCTCAGAAGAAGATTTCTCCAT
TTATTCAGATTTGTTCACTGGGCGAGAGTCAACATAAACAAGACAAGAATAGCCAGCAGCCCTGTTCT
AGGTGCTCAGATGGAGTTATAAACTAACCCCATCTCGGCTTTCTCGCAAGATAACATCTATGAAGTTC
AGCCCCAAGAGTAGACAGAAAATCTACAGAGATCTTCCAAGCCACATCCAGGCCAGCCAAGGTATCAT
GCAGCCCTAGGAAAAGAGGACTCTCCATGTACCGAGAGTACATCAGGAACCGTACTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207192 protein sequence
 Red=Cloning site Green=Tags(s)

MPTAAAPIISSVQKLVLYETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYTQQEVRELLGRL
 DLGNRTKMGQKSSGLFRAVSAGVGVFVRFLEGYYIVLITKRRKMADIGGHAIYKVEDTNMIYIPNDSV
 RVTHPDEARYLRIFQNVLDSSNFYFSYDLSHSLQYNLTVLRMPLEMLKSEMTQNRQESFDIFEDEGLI
 TQGGSGVFGICSEPYMKYVWNGELLDIIKSTVHRDWLLYIIHGFCGQSKLLIYGRPVYVTLIARRSSKFA
 GTRFLKRGANCEGDVANEVETEQLCDASVMSFTAGSYSSVYVQVRSVPLYWSQDIDSTMPKPPITLDQA
 DPFAHVAALHFDQMFQRFSPPIIILNLVKEREKRKHERILSEELVAAVTYLNQFLPPEHTIVYIPWDMAK
 YTKSKLNCVLDRLNVIAESVVKKTGFFVNRPDYCSILRPDEKWNELGGCVIPTGRLQTGILRTNCVDCL
 DRTNTAQFMVGKCALAYQLYSLGLIDKPNLQFDTDAVRLFEELYEDHGDLSLQYGGSQLVHRVKTYRKI
 APWTQHSKDQMQLSRYYSNAFSDADRQDSINLFLGVFHPTGKPHLWELPTDFYLHHKNTMRLLPTRRS
 YTYWWTPEVIKHLPLPYDEVICAVNLKLLIVKKFHKYEEEEIDIHNEFFRPYELSSFDDTFLCLAMTSSARD
 FMPKTVGIDPSPFTVRKPDETGKSVLGNKSNREEAVLQRKTAASAPPPSEEAVSSSSEDDSGTDREEEG
 SVSQRSTPVKMTDAGDSAKVTENVVQPMKELYGINLSDGLSEEDFSIYSRFVQLGQSQHKQDKNSQQPCS
 RCDGVIKLTPIISAFSQDNIYEVQPPRVDRKSTEIFQAHIQASQGMQPLGKEDSSMYREYIRNRYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6341_c11.zip

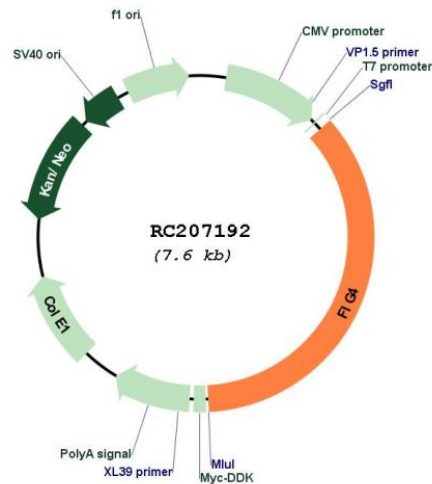
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_014845

ORF Size: 2721 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

RefSeq: [NM_014845.3](#)

RefSeq Size: 3123 bp

RefSeq ORF: 2724 bp

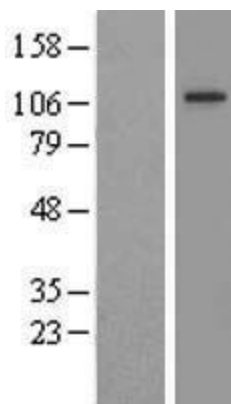
Locus ID: 9896

Domains: Syja_N

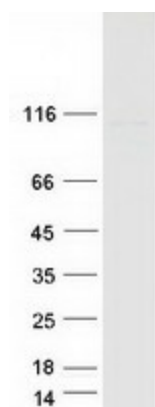
MW: 103.6 kDa

Gene Summary: 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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY414969]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207192 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FIG4 protein (Cat# [TP307192]). The protein was produced from HEK293T cells transfected with FIG4 cDNA clone (Cat# RC207192) using MegaTran 2.0 (Cat# [TT210002]).