

Product datasheet for **RG207192**

FIG4 (NM_014845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FIG4 (NM_014845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FIG4
Synonyms:	ALS11; BTOP; CMT4J; dJ249I4.1; KIAA0274; SAC3; YVS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG207192 representing NM_014845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACGGCCGCCGCCCCATCATCAGCTCGGTCCAGAAGCTGTTCTGTATGAGACTAGAGCTAGAT
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

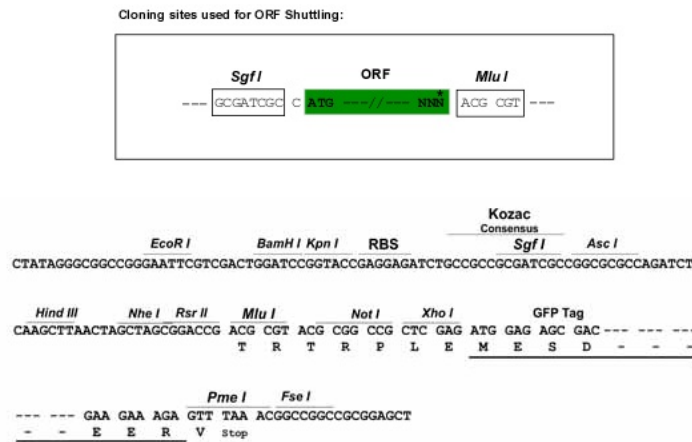
Protein Sequence: >RG207192 representing NM_014845
 Red=Cloning site Green=Tags(s)

MPTAAAPIISSVQKLVL YETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYTQQEVRELLGRL
 DLGNRTKMGQKSSGLFRAVSAGVGVVRFLEGGYIVLITKRRKMADIGGHAIYKVEDTNMIYIPNDVS
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 FMPKTVGIDPSPFTVRKPDETGKSVLGNKSNREEAVLQRKTAASAPPPSEEAVSSSEDDSGTDREEEG
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TRTRPLE - GFP Tag - V

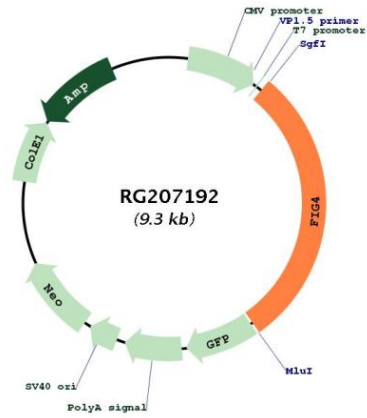
Restriction Sites: SgfI-MluI

Cloning Scheme:



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.
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:	NM_014845.3
RefSeq Size:	3089 bp
RefSeq ORF:	2724 bp
Locus ID:	9896
UniProt ID:	Q92562
Cytogenetics:	6q21
Domains:	Syja_N
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 4]. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207192