

Product datasheet for MR229052

Aktip (NM_001302268) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aktip (NM_001302268) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aktip
Synonyms:	AL023020; Fif; Ft; Ft1; Fts
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229052 representing NM_001302268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCCTTTGTGGAGCATGTCTGCAGGCTCTGTGCGCAAACGAGCTGAAGGTGAAGAGAAGACATTAG
CAGGAGATGTGAAAACCAGTCTCCACGAAGTGCACCCAAAAACAGCTACCTTCTATCCCAAAAATGC
TCTACCCATAGCGAAGCCTACGTCTCCTGCCCCAGCAGCGCAGTCAACAAACGGCACCCATGCCTTTAT
GGACCTTCTACCTGGAATATTCGCTTCTGCAGAATTTACTCTGGTAGTAAGCAGAAGCTGCCAGGAG
TCTACGTACAGCCATCTTACCGCTCTGCATTAGTGTGGTTTGGAGTAATTCATACGGCACGGGCTGTA
TCAGGATGGCGTATTCAAATTTACGGTGTATTCCTGATAACTATCCTGATGGCGACTGTCCGCGCTTG
CTGTTTGATATTCCTGCTTTTCAACCACTAGTTGATCCCACCTCGGGTGAGCTGGATGTGAAAAGAGCGT
TCGCAAAGTGGAGGCGGAACCATAAACCATATATGGCAGGTGTTAATGTATGCGAGGAGAGTCTTCTACAA
GATCGACACGACGAGCCCCCTGAACCCAGAGGCCCGCAGTGTGTATGAAAAGACATTCAACTTTTTAAA
AGTAAAGTGGTCGACAGTGTAAAGTGTGACTGCCCGCTTTTTGACCAGCCAAAGATAGAAGACCCCT
ACGCCATTAGCTTTTCTCCGTGGAACCCCTTCTGTACATGATGAGGCCAGAGAAAAGATGCTGACTCAGAA
GAAGCCTGATGAACAGCACAATAAAAGTGTTCATGTTGCTGGCCTGTCATGGGTAAGCCTGGCTCAGTA
CAACCTTCAGTAAAGAAGAGAAAACAGTAGCAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229052 representing NM_001302268
Red=Cloning site Green=Tags(s)

MNPLWSMSAGSVRKRAEGEEKTLAGDVKTSPPRSAPKKQLPSIPKNALPIAKPTSPAPAAQSTNGTHASY
 GPFYLEYSLLAEFVLVVKQKLPGVYVQPSYRSALVWFGVIFIRHGLYQDGVFKFTVYIPDNYPDGDCPRL
 LFDIPVFHPLVDPTSGELDVKRAFAKWRRNHNHIWQVLMYARRVFKIDTTSPLNPEAAVLYEKDIQLFK
 SKVVDSVKVCTARLFDQPKIEDPYAISFSFSPWNPSVHDEAREKMLTQKKPDEQHNSVHVAGLSWVKPGSV
 QPFSKEEKT VAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001302268

ORF Size: 876 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:

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_001302268.1](#), [NP_001289197.1](#)

RefSeq Size: 2155 bp

RefSeq ORF: 879 bp

Locus ID: 14339

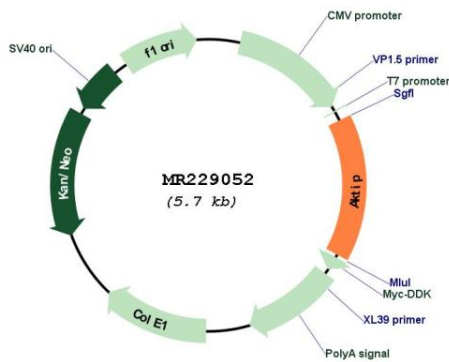
UniProt ID: [Q64362](#)

Cytogenetics: 8 44.25 cM

MW: 33.4 kDa

Gene Summary: Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). Regulates apoptosis by enhancing phosphorylation and activation of AKT1. Increases release of TNFSF6 via the AKT1/GSK3B/NFATC1 signaling cascade (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229052