

Product datasheet for **RC200881**

AKIRIN2 (NM_018064) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKIRIN2 (NM_018064) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AKIRIN2
Synonyms: C6orf166; dj486L4.2; FBI1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200881 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTGCAGCCACTCTGAAAAGGACTCTGGATTCGACCCGCTGTTGAGCCCGCGTCCCGAAGC
 GCAGGCGATGTGCCCATTGTGCGCGCCACCTCGGCCGCTGCCTCCCGTTGTGCGGCGCCGCGGCCAC
 CGCGCCTCCTTCTCCGCTGCGGCGCCTCGCCGAGAAGTATCTCCGAATGGAGCCATCCCCCTTCGGC
 GACGTCTCCTCCCGCCTACCACAGAACAATTCTGTACAACATAAAACAAGAGTATAAACGAATGCAGA
 AGAGAAGACATTTAGAAACGAGTTTCCAACAGACAGATCCGTGTTGTACTTCTGATGCACAGCCACATGC
 ATTTCTCCTCAGTGGACCAGTTTACCAGGGACTTCATCTGCAGCATCCTACCATTAAAAAAGAAGACAG
 CCCTTATTTACTCTACGGCAGGTTGGGATGATCTGTGAACGTTTGTGAAAGAAGCTGAAGAGAAAGTTC
 GAGAAGAATGAAGAAATATTGAACACAAAATTGCAGAACAATATGATGCGTTTGTGAAGTTTACGCA
 TGATCAAATAATGCGACGATATGGAGAACAGCCTGCTAGCTATGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200881 protein sequence
 Red=Cloning site Green=Tags(s)

MACGATLKRTLDFDLLSPASPKRRRCAPLSAPTSAAAASPLSAAAATAAASFASAAAASPKYLRMEPSFPG
 DVSSRLTTEQILYNIQYKRMQKRRHLETSFQQTDPCCSDAQPHAFLLSGPASPGTSSAASSPLKKEQ
 PLFTLRQVGMICERLLKEREKVVREYEEILNKLAEQYDAFVKFTHDQIMRRYGEQPASYVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6409_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018064

ORF Size: 609 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.

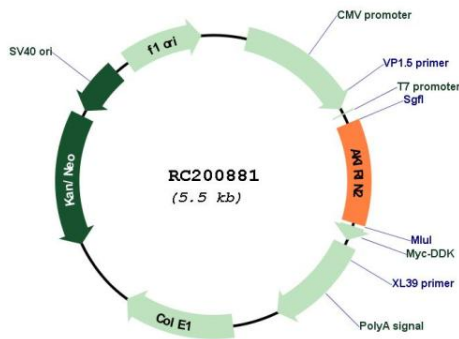
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018064.4](#)

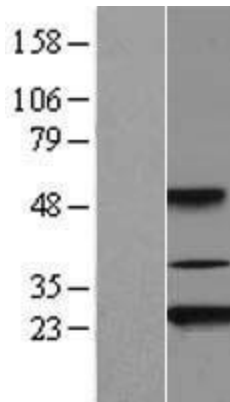
RefSeq Size: 1948 bp

RefSeq ORF:	612 bp
Locus ID:	55122
UniProt ID:	<u>Q53H80</u>
Cytogenetics:	6q15
MW:	22.5 kDa
Gene Summary:	Required for the innate immune response. Downstream effector of the Toll-like receptor (TLR), TNF and IL-1 beta signaling pathways leading to the production of IL-6. Forms a complex with YWHAB that acts to repress transcription of DUSP1 (By similarity). [UniProtKB/Swiss-Prot Function]

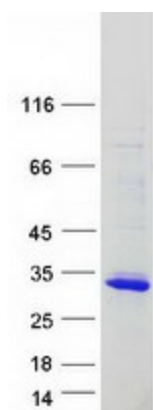
Product images:



Circular map for RC200881



Western blot validation of overexpression lysate (Cat# [LY413339]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200881 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AKIRIN2 protein (Cat# [TP300881]). The protein was produced from HEK293T cells transfected with AKIRIN2 cDNA clone (Cat# RC200881) using MegaTran 2.0 (Cat# [TT210002]).