

Product datasheet for **RC223647**

ULK4 (NM_017886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ULK4
Synonyms:	FAM7C1; REC01035
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC223647 representing NM_017886
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAAACCTTTATTCTGTATGAGGAGATCGGAAGAGGAAGCAAGACTGTTGTCTATAAAGGGCGACGGA
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GCGGTGGCTCCCTTGGCCCTGGAATCCTCCAAGCCGTTGGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223647 representing NM_017886

Red=Cloning site Green=Tags(s)

MENFILYEEIGRGSKT VVYKGRRKGT INFVAILCTDKCKRPEITNWVRLTREIKHKNI VTFHEWYETSNH
LWL VVELCTGSLKT VIAQDENLPEDVVREFGIDLISGLHHLHKL GILFCDISPRKILLEGPGTLKFSNF
CLAKVEGENLEEFFALVAAEEGGDNGENVLKSMKSRVKGSPVYTAPEVVRGADFSISSDLWSLGCLLY
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SAICKVQQYMLTLFAAMLSCGIHLQRLIQEKG FVSTIIRLLDSPSTCIRAKAFLVLLYILIYNREMLLS
CQARLVMIYERDSRKTTTPKEQQSGNEYL SKCLDLLICHIVQELPRILGDI LNSLANVSGRKH PSTVQVK
QLKLCLPLMPVVLHLVTSQVFRPQVVT EEF LFSYGTILSHIKSVDSGETNIDGAIGLTASEEFIKITLSA
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NLLALIRDVLLPQYEHILLEPDPVPAYALKLLVAMTEHNPTFTRLVEESKLIPLIFEVTLHQESILGNT
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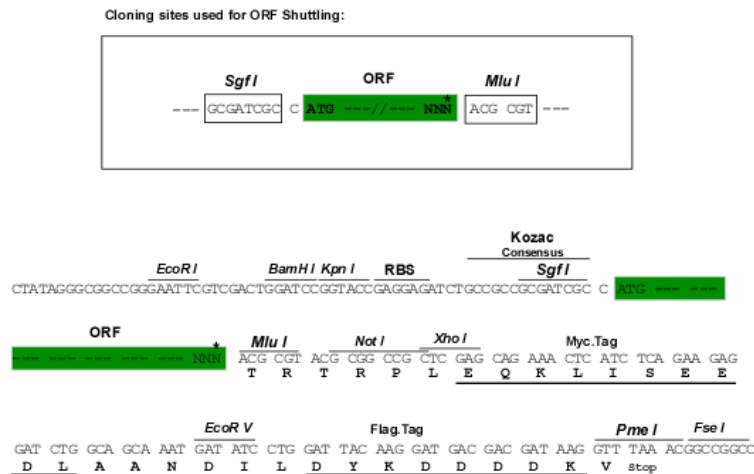
Chromatograms:

https://cdn.origene.com/chromatograms/mk8009_f09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:

NM_017886

ORF Size:

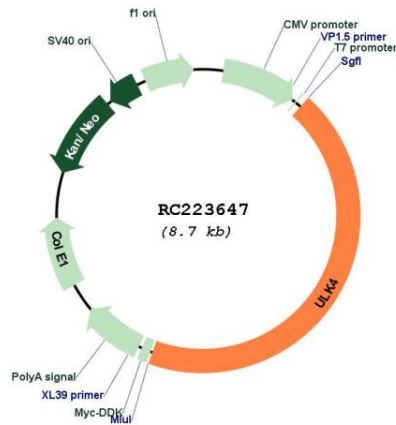
3825 bp

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_017886.4
RefSeq Size:	4425 bp
RefSeq ORF:	3828 bp
Locus ID:	54986
UniProt ID:	Q96C45
Cytogenetics:	3p22.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	142.3 kDa

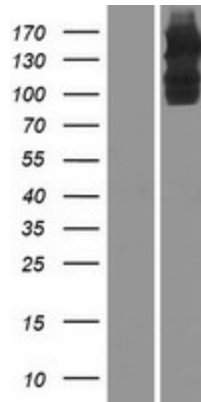
Gene Summary:

This gene encodes a member of the unc-51-like serine/threonine kinase (STK) family. Members of this protein family play a role in neuronal growth and endocytosis. The encoded protein is likely involved in neurite branching, neurite elongation and neuronal migration. Genome-wide association studies (GWAS) indicate an association of variations in this gene with blood pressure and hypertension. Sequence variations in this gene may also be associated with psychiatric disorders, including schizophrenia and bipolar disorder. Pseudogenes associated with this gene have been identified and are located on chromosome 15. [provided by RefSeq, Jul 2016]

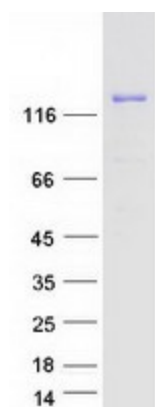
Product images:



Circular map for RC223647



Western blot validation of overexpression lysate (Cat# [LY413469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223647 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ULK4 protein (Cat# [TP323647]). The protein was produced from HEK293T cells transfected with ULK4 cDNA clone (Cat# RC223647) using MegaTran 2.0 (Cat# [TT210002]).