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Product datasheet for RC214962

KIST (UHMK1) (NM_175866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIST (UHMK1) (NM_175866) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIST
Synonyms:	KIS; KIST; P-CIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214962 representing NM_175866
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGATCCGGCTGCGCCTGGGGCGCGGAGCCGCCGCGTTTTCTGGAGGCCTTCGGGCGGCTGTGGC
AGGTACAGAGCCGTCTGGGTAGCGGCTCCTCCGCCTCGGTGTATCGGGTTCGCTGCTGCGGCAACCCTGG
CTCGCCCCCCGGCGCCCTCAAGCAGTTCTTGCCGCCAGGAACCACCGGGGCTGCGGCCTCTGCCGCCGAG
TATGGTTTCCGCAAAGAGAGGGCGGCGCTGGAACAGTTGCAGGGTCACAGAAACATCGTGACTTTGTATG
GAGTGTTTACAATCCACTTTTCTCCAAATGTGCCATCACGCTGTCTGTTGCTTGAACTCCTGGATGTCAG
TGTTTCGGAATTGCTCTTATATTCCAGTCACCAGGGTTGTTCCATGTGGATGATACAGCATTGTGCCCGA
GATGTTTTGGAGGCCCTTGCTTTTCTTCATCATGAGGGCTATGTCCATGCGGACCTCAAACCACGTAACA
TATTGTGGAGTGCAGAGAATGAATGTTTTAAACTCATTGACTTTGGACTTAGCTTCAAAGAAGGCAATCA
GGATGTAAAGTATATTCAGACAGACGGGTATCGGGCTCCAGAAGCAGAATTGCAAAATTGCTTGGCCCAG
GCTGGCCTGCAGAGTGATACAGAATGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTACTGG
AAATGTTCTCAGGAATGAAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTAT
TATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATTCCAGCCTATCACCTAAGAGACCTT
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TTAGCATTCCTTTTGCCCCTCATATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAA
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TGTCAAAAATATGGACCAGTGGTATCTCTACTTGTTCCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTG
TTGAGTATGCAAATGCTGGTGATTCCAAAGCTGCGCAGAAATTACTGACTGGAAGGATGTTTGATGGGAA
GTTTGTTGTGGCTACATTCTACCCGCTGAGTGCCTACAAGAGGGGATATCTGTATCAAACCTTGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC214962 representing NM_175866
Red=Cloning site Green=Tags(s)

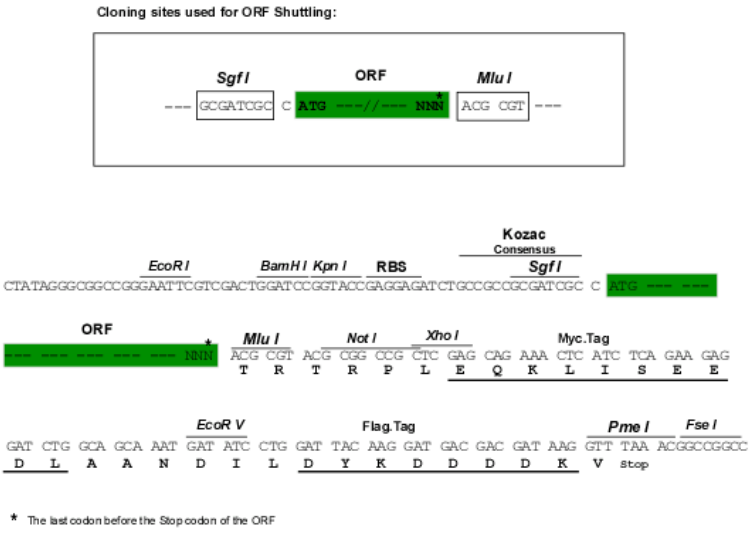
MAGSGCAWGAEPPRFLEAFGRLWQVQSRLGSGSSASVYRVRCCGNPGSPPGALKQFLPPGTTGAAASAAE
YGFRKERAALEQLQGHRNIVTLYGVFTIHFSPNVPSRCLLLELLDVSVSELLLYSSHQGCSMWMIQHCAR
DVLEALAFLHHEGYVHADLKPRNILWSAENECFKLIDFGLSFKEGNQDVKYIQTDGYRAPEAELQNCLAQ
AGLQSDTECTSAVDLWSLGIILLEMFSGMKLKHTVRSQEWKANSSAIIDHIFASKAVVNAAIPAYHLRDL
IKSMLHDDPSRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLLNVLDDDYLENEEEYEDVVEDVKEE
CQKYGPVVSLLVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKFVVATFYPLSAYKRGYLYQTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2762_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175866

ORF Size: 1257 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_175866.5

RefSeq Size: 2901 bp

RefSeq ORF: 1260 bp

Locus ID: 127933

UniProt ID: Q8TAS1

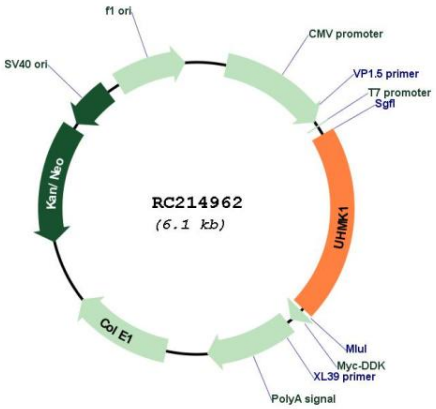
Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Protein Kinase

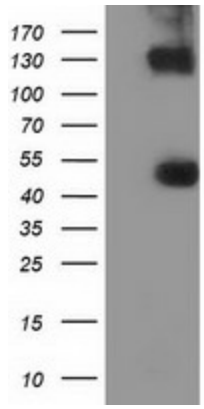
MW: 46.4 kDa

Gene Summary: The gene encodes a serine/threonine protein kinase that promotes cell cycle progression through G1 by phosphorylation of the cyclin-dependent kinase inhibitor 1B (p27Kip1), which causes nuclear export and degradation. The encoded protein is also thought to function in the adult nervous system and the gene has been associated with schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

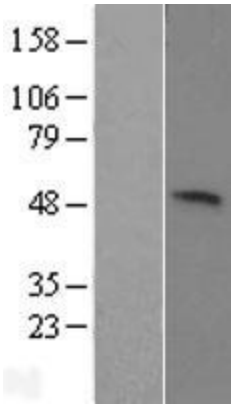
Product images:



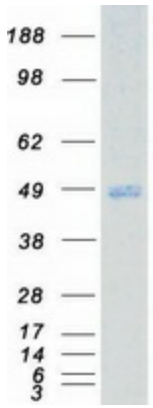
Circular map for RC214962



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UHMK1 (Cat# RC214962, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UHMK1(Cat# [TA501720]). Positive lysates [LY406187] (100ug) and [LC406187] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY406187]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214962 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UHMK1 protein (Cat# [TP314962]). The protein was produced from HEK293T cells transfected with UHMK1 cDNA clone (Cat# RC214962) using MegaTran 2.0 (Cat# [TT210002]).