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Product datasheet for RC210690

KIAA1530 (UVSSA) (NM_020894) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1530 (UVSSA) (NM_020894) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA1530
Synonyms:	KIAA1530; UVSS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210690 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCAGAAACTTTCGAAGTTGGTAGAAGAGCTCACAACTTCAGGAGAACCCCGACTAAATCCTGAGA
AAATGAAGGAACTGAAGAAAATTTGCAAGTCTTCAGAGGAGCAGCTGAGCCGCGCCTACCGCCTGCTGAT
AGCACAGCTGACCCAGGAGCACGCCGAGATCCGTCTCTCAGCCTTCCAGATTGTGGAGGAACTCTTCGTC
AGGTCTCACCAGTTCCGGATGCTGGTTGTTTCCAACTTCCAGGAGTTCCTGGAGCTCACGCTGGGCACAG
ACCCCGCACAGCCTCTGCCGCCCCCCAGGGAGGCGGCACAGAGGCTGAGGCAGGCGACCACCCGGGCCGT
GGAAGGGTGGAATGAGAAGTTTGGGGAGGCCTACAAGAAGCTTGCCTTGGGCTACCACTTCTTAAGACAC
AACAAAAAGGTGGATTTTCAAGACACGAATGCTCGGAGTCTGGCAGAAAGGAAGAGAGAAGAGGAGAAGC
AGAAGCACTTGGATAAAATTTATCAAGAAAGAGCCAGCCAGGCGGAGAGGGAGATGCAAGAAATGTCTGG
AGAAATTGAATCCTGCTTGACGGAGGTAGAGAGCTGCTTTAGGCTGCTGGTGCCTTTTGACTTTGACCCG
AACCCGGAGACGGAATCCCTTGGCATGGCTTCTGGCATGTCCGATGCCCTTCGCTCCTCCTGCGCGGGCC
AGGTGGGCCCCTGCCGGTCTGGCACCCCTGACCCCCGGGACGGGGAGCAGCCCTGCTGCAGTAGAGACCT
GCCTGCCTCTGCAGGCCACCCCAGAGCGGGCGGCGGGGCACAGCCATCCCAGACAGCCACAGGTGACCCC
TCAGATGAGGACGAGGACAGCGACCTCGAGGAGTTTGTGCGGAGCCACGGGCTGGGCTCGCACAAGTACA
CGCTGGATGTGGAGCTCTGCTCAGAGGGCCTGAAGGTGCAGGAGAACGAGGACAACCTTGCTCTCATCCA
CGCCGCCCGCGACACACTCAAGCTCATCCGGAACAAGTTCCTGCCGGCTGTGTGCTCGTGGATCCAGCGC
TTCACCCGCGTCGGGACCCACGGTGGATGTTTAAAGCGTGCCATTGACCTGAAGGCTGAATTGGAGCTCG
TACTGAGAAAATACAAGGAGCTGGACATCGAGCCTGAGGGAGGGGAAAGGCGCAGGACAGAAGCCCTGGG
GGATGCGGAGGAAGATGAGGACGATGAGGACTTTGTGGAGGTCCCTGAGAAGGAGGGGTATGAGCCACAC
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GGAGGAAGTGGTCAATGCCGACATCTCCGAGATGCTCCGGAGCCGCCACATCACTTTTGCCGGGAAGTTT
GAGCCTGTGCAGCACTGGTGCCGTGCCCCGAGGCCAGACGGCCGGCTCTGTGAGCGCCAAGACCGGCTGA
AGTGCCCTTTCCATGGGAAGATTGTTCCAAGGGACGACGAAGGACGGCCGCTCGACCCGGAAGACAGGGC
TCGTGAGCAGCGGCGGCAGCTGCAGAAGCAGGAGCGCCTGGAATGGCAGGACCCTGAGTTGATGAGAGAC
GTGGAAGCAGCCACAGGGCAGGATCTCGGCTCGTCCAGGTACAGCGGGAAAGGCAGGGGGAAGAAGAGGA
GGTACCCCAGCCTCACCAACCTGAAGGCTCAGGCTGATACCGCCCGCGCTCGCATTGGGAGAAAAGTCTT
CGCCAAGGCAGCTGTGCGGAGGGTAGTGGCAGCCATGAACCGGATGGACCAGAAGAAGCACGAGAAGTTT
TCAAACCAGTTTAACTACGCACTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210690 protein sequence
Red=Cloning site Green=Tags(s)

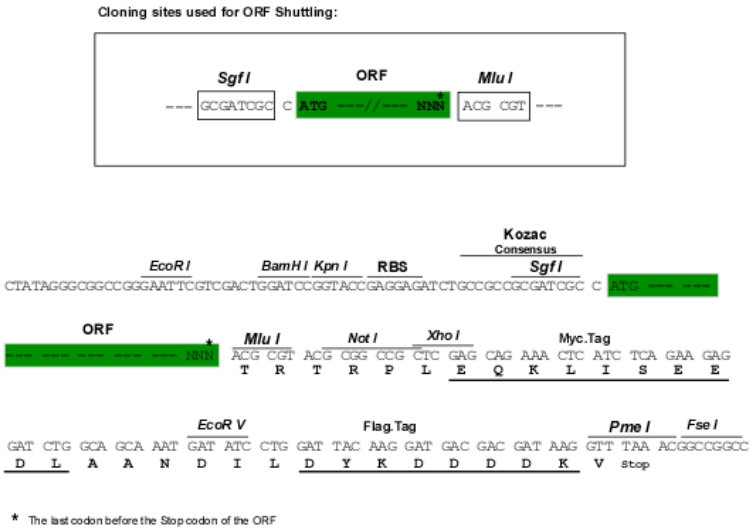
MDQKLSKLVEELTTSGEPRLNPEKMKELKKICKSSEEQLSRAYRLLIAQLTQEHAEIRLSAFQIVEELFV
RSHQFRMLVVSNFQEFLELTLGTDPAQPLPPPREAAQRLRQATTRAVEGWNEKFGEAYKKLALGYHFLRH
NKKVDFQDTNARSLAERKREEEKQKHLDKIYQERASQAEREMQEMSGEIESCLTEVESCFRLLVPFDFDP
NPETESLGMASGMSDALRSSCAGQVGPCRSGTPDPRDGEQPCCSRDLPASAGHPRAGGGAQPSQTATGDP
SDEDEDSDLEEFVRSHGLGSHKYTLDVELCSEGLKVQENEDNLALIHAARDTLKLIRNKFLPAVCSWIQR
FTRVGTHGGCLKRAIDLKAELELVLRKYKELDIEPEGGERRRTEALGDAEEDEDDEDFVEVPEKEGYEPH
IPDHLRPEYGLEAAPEKDTVVRCLRTRTRMDEEVSDPTSAAAQLRQLRDHLPPPSSASPSRALPEPQEAQ
KLAAERARAPVVPYGVDLHYWGQELPTAGKIVKSDSQHRFWKPSEVEEEVVNADISEMLRSRHITFAGKF
EPVQHWCRAPRPDGRLCERQDRLKCPFHGKIVPRDDEGRPLDPEDRAREQRRQLQKQERLEWQDPELMRD
VEAATGQDLGSSRYSGKGRGKKRRYPSLTNLKAQADTARARIGRKVFAKAAVRRVVAAMNRMDQKKHEKF
SNQFNYALN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6377_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020894

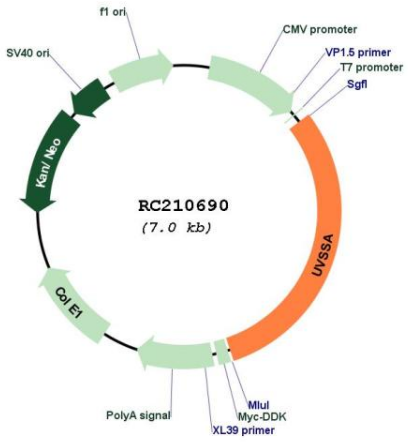
ORF Size: 2127 bp

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

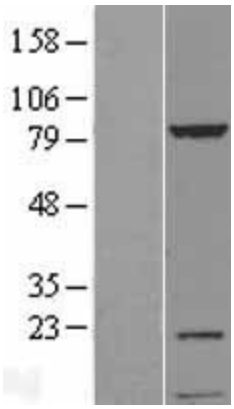
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_020894.4
RefSeq Size:	4665 bp
RefSeq ORF:	2130 bp
Locus ID:	57654
UniProt ID:	Q2YD98
Cytogenetics:	4p16.3
MW:	80.6 kDa
Gene Summary:	The protein encoded by this gene appears to be involved in ubiquitination and dephosphorylation of RNA polymerase II subunits that stall after UV irradiation. The encoded protein interacts with several members of the nucleotide excision repair complex, and is thought to be involved in the transcription-coupled nucleotide excision repair (TC-NER) pathway to help remove lesions in the DNA that block transcription. Defects in this gene can cause UV-sensitive syndrome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

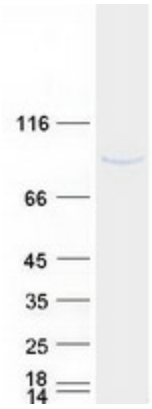
Product images:



Circular map for RC210690



Western blot validation of overexpression lysate (Cat# [LY412253]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210690 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UVSSA protein (Cat# [TP310690]). The protein was produced from HEK293T cells transfected with UVSSA cDNA clone (Cat# RC210690) using MegaTran 2.0 (Cat# [TT210002]).