

Product datasheet for **RC239328**

HJURP (NM_001282962) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HJURP (NM_001282962) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HJURP
Synonyms:	FAKTS; hFLEG1; URLC9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239328 representing NM_001282962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGTACGCTGCGGCCATGGAGGGCGAGGACGTGGAAGACGACCAGCTGCTGCAGAAGCTCAGGG
 CCAGTCGCCGCCCTTCCAGAGGCGCATGCAGCGGCTGATAGAGAAGTACAACCAGCCCTTCGAGGACAC
 CCCGGTGGTGCAAATGGCCACGCTGACCTACGAGACGCCACAGGGATTGAGAATTTGGGGTGAAGACTA
 ATAAAGGAAAGAAACGAAGGAGAGATCCAGCCTGCAGTGCCTCAAAGCCCTTTGAAAAATGAATTAAGAA
 GGAAATACTTGACCCAAGTGGATATACTGCTACAAGGTGCAGAGTATTTTGGTGTGCAGGTAACAGAGC
 TGGAAAGGATGTACGTGTGACTCCGCTGCCTTCACTGGCCTCACCTGCCGTGCCTGCCCCGGATACTGC
 AGTCGTATCTCCAGAAAGAGTCTGGTGACCCAGCGAAACCAGCTTCATCTCCAGAGAATGGGATCCTT
 TGCATCCTTCTCCACAGACATGGCCTTAGTACCTAGAAATGACAGCCTCTCCCTACAAGAGACCAGTAG
 CAGCAGCTTCTTAAGCAGCCAGCCCTTTGAAGATGATGACATTTGCAATGTGACCATCAGTGACCTGTAC
 GCAGGGATGCTGCACTCCATGAGCCGGCTGTTGAGCACAAAGCCATCAAGCATCATCTCCACAAAACGT
 TCATCATGCAAACTGGAACCTCCAGGAGGAGGCACAGATAAAGAGCAGGATGAACAAAACATATTGCAA
 AGGAGCCAGAGCTTCTCAGAGGAGCTCCAAGGAGAACTTCATACCTGCTCTGAGCCTGTGAAAGGGACA
 GGGGCATTAAGAGATTGCAAGAAGTATTAGATGTTTTCTTGCCGTAAGACAGGTTTAAAAATTGAAAAAG
 CTTTTCTGAAGTCAACAGACCCCAATCCATAAGTTAGATCCAAGTTGGAAGGAGCGCAAAGTGACACC
 CTCGAAGTATTCTTCTGATTTACTTCGACTCCAGTGAACATATAATCTTGATGAGGAAAATAGATTT
 AGGACATTAATAATGGTTAATTTCTCTGTAAAAATAGTTTCCAGACCAACAATACGACAGGGCCATGGAG
 AGAACCGTCAGAGGGAGATTGAAATCCGATTTGATCAGCTTCATCGGGAATATTGCCTGAGTCCAGGAA
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 GGTGGCCTTCAGGGCTTAGAAAACCCGAGGCTGAGTTTACCTTCCAGCAAAGCAAAGCAAAAAGTTTAA
 GTGAGGCTTTTAAAACCTAGGCAAAAGATCTCTGGAAGCAGGTAGGTGCCTGCCCAAGAGCGATTTCATC
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 CAGGGAATAGTTCTGGAATATTTAGAAAAGTCAGTGTCAACCAGCAAACCTTTTCAGTCCAGATAAAG
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 TTGCCTCAAATCTCCTGGCAGATGACAGTGCCTTTATGTATTGGAGTGTCTACAGATAAAGCAAGTATG
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 CTATCAGAACCCAGGGCTCCGGACGCCAGGGCAATTCCTGGGTGCCTCAGATGGGGTGGACAACCCG
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 GATGGAAGAGAAAAGTATTTATGCTAGAAAAATTGGAACATAAAAGTGTG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239328 representing NM_001282962
 Red=Cloning site Green=Tags(s)

MLGTLRAMEGEDVEDDQLLQKLASRRRFQRRMQRLIEKYNQPFEDTPVVQMATLTYETPQGLRIWGGRL
 IKERNEGEIQPAVPOQSPLKNELRRKYL TQVDILLQGAEFECAGNRAGRDRVVTPLPSLASPAVPAPGYC
 SRI SRKSPGDPAKPASSPREWDPLHPSSTDMALVPRNDSL SLQETSSSSFLSSQPFEDDDICNVITISDLY
 AGMLHMSRLLSTKPSSII STKTFIMQNWNSRRRHRYKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGT
 GALRDCKNVLDVSCRKTGLKLEKAFLEVNRPQIHKLDPWKERKVTPSKYSSLIYFDSSATYNLDEENRF
 RTLKWLISPVKIVSRPTIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASP
 GGLQGLETRRLSLPSSKAKAKSLSEAFENL GKRSL EAGRCLPKSDSSSLPKTNPHTSATRPQQTSDLHV
 QGNSSGIFRKSVSPSKTLSVPDKEVPGHGRNRYDEIKEEFDKLHQYCLKSPGQMTVPLCIGVSTDKASM
 EVRYQTEGFLGKLNPDPHFQGFQKLPSSPLGCRKSL LGSTAIEAPSSTCVARAITRDGTRDHFPAKRPR
 LSEPQGSGRQGNL GASDGDVNTVRPGDQGSSSQPNSEERGENTSYRMEEKSDFMLEKLETKSV

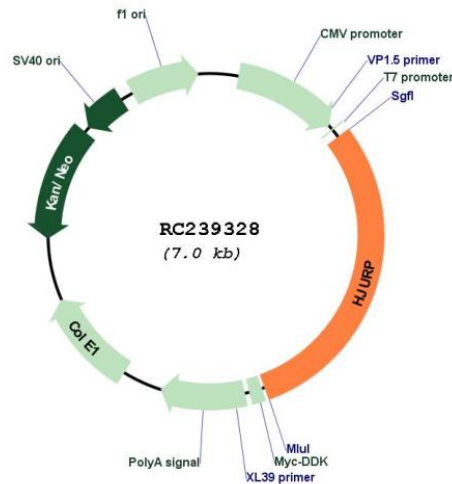
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282962

ORF Size: 2082 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_001282962.1](#), [NP_001269891.1](#)

RefSeq Size: 3027 bp

RefSeq ORF: 2085 bp

Locus ID: 55355

UniProt ID: [Q8NCD3](#)

Cytogenetics: 2q37.1

Protein Families: Druggable Genome

MW: 78.4 kDa

Gene Summary: Centromeric protein that plays a central role in the incorporation and maintenance of histone H3-like variant CENPA at centromeres. Acts as a specific chaperone for CENPA and is required for the incorporation of newly synthesized CENPA molecules into nucleosomes at replicated centromeres. Prevents CENPA-H4 tetramerization and prevents premature DNA binding by the CENPA-H4 tetramer. Directly binds Holliday junctions.[UniProtKB/Swiss-Prot Function]