

Product datasheet for **RC222265**

UNCX (NM_001080461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	UNCX
Synonyms:	UNCX4.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222265 representing NM_001080461
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGACGCGCCGCTCTGGAACACCCGCATGCCAGTTTCGGGGGCTCGCTGGCGCGCTGGTGGGCT
TCCCCTACCCGCTGGGCCACCACACGTGTACGAGCTGGCCGGGACCAGCTGCAGTCGGCCGCCGCCGC
CGCTCGTGGCCTTCTCCATCGACGGCTGCTCGGGGCTCGTGCGCCGCCGCCCTCGTGGTCAAC
CCCACGCCGCTGCTGCCAGCCGCTGCGGGGTCGGCGGGACGGCCAGCCCTTCAAGCTGTACAGACTCGG
GGGACCCGGACAAGGAGAGCCCGGGCTGCAAGCGGCGGGCGACCCGACCAACTTACCCGGCTGGCAGCT
GGAGGAGCTGGAGAAGGCGTTCAACGAGAGCCACTATCCCGACGTGTTATGCGCGAGGCGCTGGCGCTG
CGCTAGACCTGGTCGAGTCCCGAGTTCAGGTCTGGTTCAAAAACCGCCGGGCCAAGTGGAGGAAGAAGG
AGAACACGAAAAAGGGCCCGGGCGGCCGGCGCAACAATCGCACCCGACCAGTGCAGCGGCGAGCCCAT
GGACCCGGAGGAGATCGCGCGCAAGGAGCTGGAGAAGATGGAGAAGAAGAAGCAGCAAGCAGAGAAGAAG
CTGTCTGAAGAGCCAGGGCGCCCACTTGCACTGCCCGCGGCGCTGTCCCTGCACAGCGCCGACGCTCCG
ACAGCGACAGCGGCGGGCGGCGCTGTCTCCGAGACGCCGAGCGCGCGCCGCCGCCGCGCAAGGGCCC
CGGAGCGCACGCTCGGGCGCCGCGGGGACCGCGCCCGCCCTCCCGGCGAGCGCGCTGCACCCGGCACC
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ACAAGGACGCGGCTCGTGGGGCCAGGGGCGCTGTGGCGCGGTGGAGCGGCGCGCGCGGGGCTGCC
CAAGGCCAGCCATTACGCTGGAGAGCCTCTGTCCGACTCGCGCGCGCGCGGAAAGCCGCTTCCAAC
GCCGCGCGCGCGCGCGCGGGGCTGGACTIONCGCGCCGGGCTGCCGTGCGCGCGCGGACCCTGATCG
GCAAGGGCACTTCTCTCTACCCCATCACGACGCGCTCGGCTTCTGTGTGCCGAGGCCGCGCTCAA
GGGCGGCGCGGGCTGGAGCGGCGCCCAAGGACGCGCGCCGCGCGCCGCGCGCTGCCGCGCGCGCGCT
GCCAGGCCAGTTTCGGGGCTTCTCGGGGCCGGCGCGCCCGGACTCGGCTTCGCGCGTGCAGCC
CCGACGCCGTCGCTCCCGGGGGCCAGCCCCGGCCCCGGCGCTTTCGGGACCTCGCTCGGCAGC
GGTACCGAGGGCGGCGCGGGGACTGCGCGAGCGGGGACGCCGCCGCCGCCGCCGCCGCCGCCGCG
CCGTGCCACAGCCCGGCTTGGCTCCGAGCCCGCGGAGGAGCGCCGACCTCGGGGTTCCGAGC
CTGGCGCGGCGGGAGCCAGCCCCGGCGGGAGGCGAGGACTGGACATGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222265 representing NM_001080461
Red=Cloning site Green=Tags(s)

MMDGRLLLEHPHAQFGGSLGGVVGFPYPLGHHVYELAGHQLSAAAAASVPFSIDGLLGGSCAAAAASVYN
PTPLLPAAACGVGGDGPFLKSDSGDPDKESPGCKRRRTRTNFTGWQLEELEKAFNESHYPDVMREALAL
RLDLVESRVQVWFQNRRAKWRKKENTKKGPRPAHNSHPTTCSGEPMDPEEIARKELEKMEKKRKRHEKK
LLKSQGRHLHSPGGLSLHSAPSSDSDSGGGGLSPEPPEPPPPAAKGPGAHASGAAGTAPAPPGEPPAPGT
CDPAFYPSQSRGAGPQPRGRPADKDAASCGPAAVAVERGAAGLPKASPFVSESLSDSPRRKAASN
AAAAAAGLDFAPGLPCAPRTLIGKGFLLYPITQPLGLVPQAALKGGAGLEPAKDPAPPAPVPPAPP
AQASFGAFSGPGGAPDSAFARRSPDAVASPGAPAPAPFRDLASAAATEGGGGDCADAGTAGPAPPPPA
PSRPGRPPPSPAEEPATCGVPEPGAAAGPSPEGEELDMD

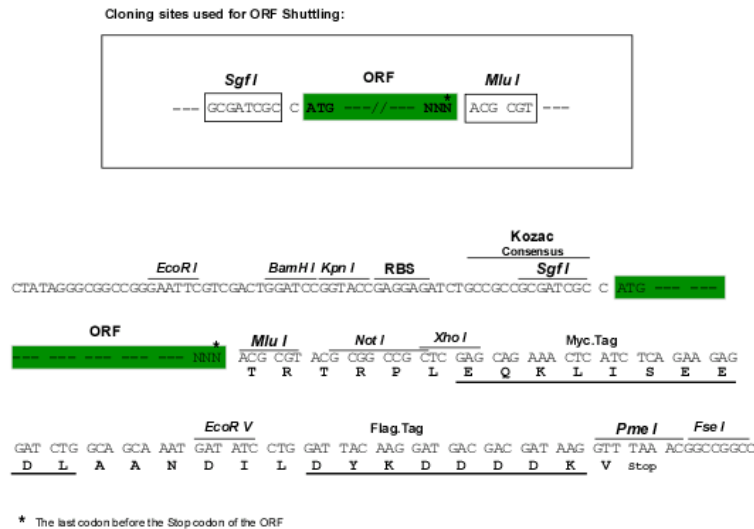
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8040_h04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001080461

ORF Size: 1593 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_001080461.3](#)

RefSeq Size: 1596 bp

RefSeq ORF: 1596 bp

Locus ID: 340260

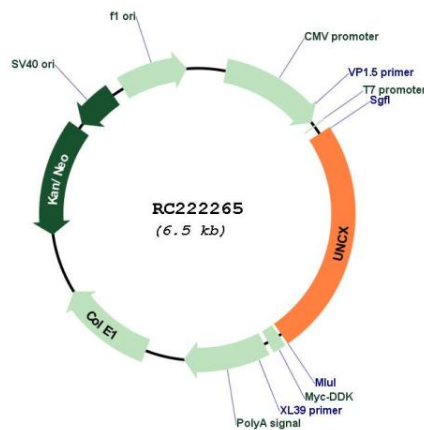
UniProt ID: [A6NJT0](#)

Cytogenetics: 7p22.3

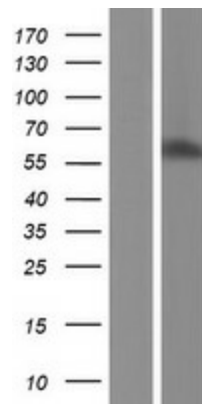
MW: 53.5 kDa

Gene Summary: This gene encodes a homeobox transcription factor that is involved in somitogenesis and neurogenesis and is required for the maintenance and differentiation of specific elements of the axial skeleton. This gene also plays a role in controlling the development of connections of hypothalamic neurons to pituitary elements, allowing central neurons to reach the peripheral blood circulation and deliver hormones that control peripheral functions. The expression of this gene is associated with an increased frequency of acute myeloid leukemia. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC222265



Western blot validation of overexpression lysate (Cat# [LY420719]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222265 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).