

Product datasheet for **RR204281**

Uxt (NM_001006982) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uxt (NM_001006982) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Uxt
Synonyms: MGC105797
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204281 representing NM_001006982
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGACGCCCCGAAACGGCGGGCCTTGATACGGTGGGGGAGAAAGTCTGCGGTATGAGGCCTTTA
TCAGTGACGTACTGCAGCGAGACTTGCAAAGGTACTGGACCATCGAGACAAGGTATATGAGCAGCTGTC
TGTATACCTTCAACTAAGAAATGTCATTGAGCGACTCCAGGAACTAATCACTCGGAGTTATATATGCAG
GTGGATTTGGGCTGTAACCTCTTCGTTGACACAATGGTCCCAGATACTTCACGCATCTATGTGGCCCTGG
GATACGGTTTTTCTGGAAGTACACTGGCCGAAGCTCTCAAGTTCATTGACCGAAAGAGTTCCCTCCT
CACAGAGCTCAGCGACAGCCTCACCAAGGACTCCATGAATATCAAGCCAATATCCACATGATGCTAGAG
GGACTTAGAGAACTACAAGGCTGCAGAATTTCCAGAGCCATCTCCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204281 representing NM_001006982
Red=Cloning site Green=Tags(s)

MATPPKRRALDTVGEKVLRYEAFISDVLQRDLQKVLDRDKVYEQLSVYLQLRNVIERLQETNHSELYMQ
VDLGCNFFVDTMVPDTSRIYVALGYGFFLELTLAEALKFIDRKSSLLTELSDSLTKDSMNKANIHMML
GLRELQGLQNFPEPSPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

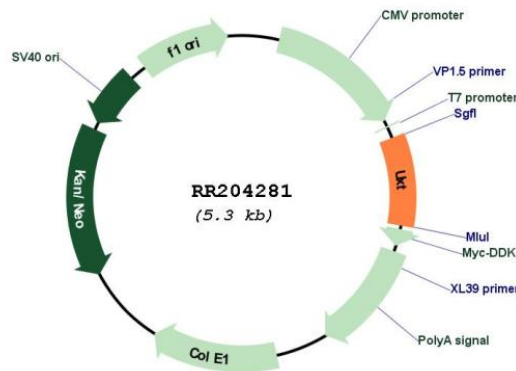
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001006982

ORF Size: 471 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:	<ol style="list-style-type: none">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:	<u>NM_001006982.1, NP_001006983.1</u>
RefSeq Size:	550 bp
RefSeq ORF:	474 bp
Locus ID:	299313
UniProt ID:	<u>Q63ZY7</u>
Cytogenetics:	Xq11
MW:	18.2 kDa
Gene Summary:	Involved in gene transcription regulation. Acts in concert with the corepressor URI1 to regulate androgen receptor AR-mediated transcription. Together with URI1, associates with chromatin to the NKX3-1 promoter region. Negatively regulates the transcriptional activity of the estrogen receptor ESR1 by inducing its translocation into the cytoplasm. May act as nuclear chaperone that facilitates the formation of the NF-kappa-B enhanceosome and thus positively regulates NF-kappa-B transcription activity. Potential component of mitochondrial-associated LRPPRC, a multidomain organizer that potentially integrates mitochondria and the microtubular cytoskeleton with chromosome remodeling. Increasing concentrations of UXT contributes to progressive aggregation of mitochondria and cell death potentially through its association with LRPPRC. Suppresses cell transformation and it might mediate this function by interaction and inhibition of the biological activity of cell proliferation and survival stimulatory factors like MECOM.[UniProtKB/Swiss-Prot Function]