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Product datasheet for MR203514

Uros (NM_009479) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uros (NM_009479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uros
Synonyms:	AI415298; Ur; UROIIIS; Uros3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203514 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGTTCTCTTACTAAAAGACGCCAAGGAGGATGACAGCGGCCTGGATCCATATATCCAGGAGCTGC
GATTGTGTGGCCTAGAAGCCACACTGATTCCTGTGCTGTCATTTGAGTTTATGTCTCTCCCCAGTTTGTC
AGAAAAGCTGTCTCATCCTGAAGGCTTTGGAGGACTCATTTTCACCAGCCCCAGGGCAGTGGAAGCAGTG
AAGCTGTGTTTGGAGAAGGACAATAAAACTGAAGCCTGGGAGAAGTCTCTGAAAGACAGATGGAATGCCA
AGTCTGTGTACGTGGTTGGAAGTGCCACCGCTTCTCTAGTGAATAAAATTGGTCTGGATGCAGAAGGAGC
GGGCAGTGGAAATGCAGAAAAGCTTGCTGAATATATTTGCTCAAAGCCATCTTCAGAGCTGCCTCTTCTC
TTTCCGTGTGGAACTATCAAAGGAGATACTCTTCCAAAAATGCTCAAGGACAAAGGGATCCCCATGGAAA
GCATGCATGTCTATCAGACAGTTCCACACCCTGGGATCCAAGGGAGCCTGAAGAGCTACTATGAAGATCA
GGGTATCCCAGCCAGCATCACGTTTTTCAGTCCCTCCGGCCTTAAATACAGCCTCGAGTATATTCAGGCG
TTATCTGGCAGCAGCTTTGACCAGATTAAGTTTATAGCCATTGGCCCCAGTACAACCCGTGCTATGGCTG
CTAAGGGCCTGCCTGTGAGCTGCACTGCAGAGAGCCCCACACCACAAGCCCTGGCTGCAGGCATCAGGAA
TGTGCTGAAGCCAAACCACTGTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

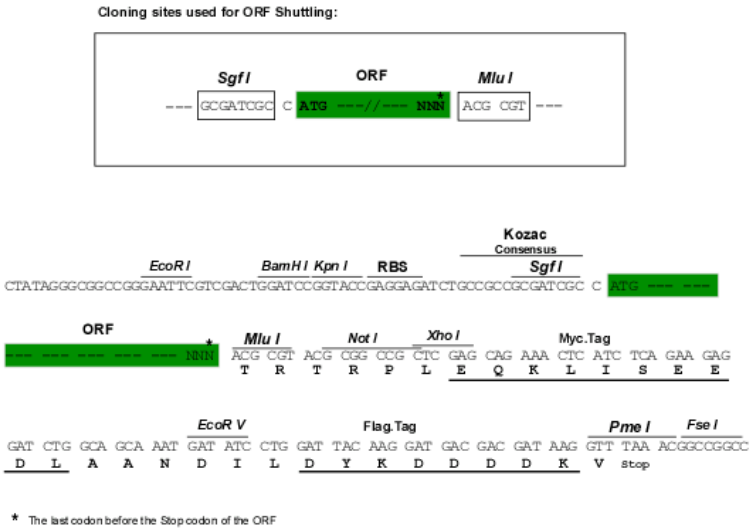
>MR203514 protein sequence
Red=Cloning site Green=Tags(s)

MKVLLLKDAKEDDSGLDPYIQELRLCGLEATLIPVLSFEFMSLPSLSEKLSHPEGFGGLIFTSPRAVEAV
KLCLEKDNKTEAWEKSLKDRWNAKSVYVVGSATASLVNKIGLDAEGAGSGNAEKLAEYICSKPSSELPLL
FPCGTIKGDTLPKMLKDKGIPMESMHVYQTVPHPGIQGSLKSYYEDQGIPASITFFSPSGLKYSLEYIQA
LSGSSFDQIKFIAIGPSTTRAMAAKGLPVSCTAESPTPQALAAGIRNVLKPNHCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009479

ORF Size: 798 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_009479.3

RefSeq Size: 1802 bp

RefSeq ORF: 798 bp

Locus ID: 22276

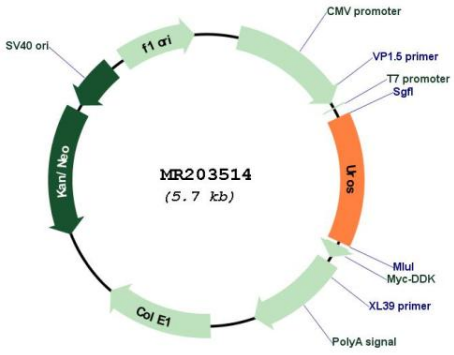
UniProt ID: P51163

Cytogenetics: 7 77.26 cM

MW: 28.5 kDa

Gene Summary: The protein encoded by this gene is the fourth enzyme in the heme biosynthesis pathway. It converts hydroxymethylbilane to uroporphyrinogen III, a cyclic tetrapyrrole. This enzyme is defective in the autosomal recessive disorder congenital erythropoietic porphyria. Alternate promoter usage controls cell type-specific expression, including erythroid cell-specific expression. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MR203514