

## Product datasheet for **RR213982**

### Usf1 (NM\_031777) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usf1 (NM_031777) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213982 representing NM_031777 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAGGGGCAGCAGAAAACAGCCGAAACCGAAGAGGGGACAGTGCAGATTCAGGAAGTGCAGTGGCTA  
CTGGAGAGGACCAACTAGTGTAGCTATCGCCAGCATCCAATCAGCTGCCACTTTCCCGACCCCAACGT  
CAAGTACGTCTTCCGAACTGAGAAATGGGGCCAGGTGATGTACAGGGTATCCAGGTGCTGAGGGGCAG  
CTGGATGGCCAGACAGAGGGCTCTGGCGCTATCAGTGGCTACCCTGCCACTCAGTCTATGACTCAGGCAG  
TAATCCAGGGGGCTTTCACCACTGATGATGCTGTTGACGCGGAGGGAACAGCTGCCGAGACCCACTACAC  
TTACTTCCCAGCACCGCAGTGGGAGATGGGTCAGGGGTACGACATCTGGGAGTACAACCGCCGTGGTC  
ACCACCCAGGGCTCAGAGGCACTGCTGGGGCAGGCAACCCCGCCAGCACAGGCAATTCTTTGTGATGA  
TGTACCACAAGAAGTGTACAGGGAGGGAGCCAGCGGTCAATTGCCCCAGGACCCACCCTTATCCCC  
GAAGTCAGAGGCTCCAGGACAACGCGAGATGAGAAACGGAGGGCTCAACATAACGAAGTGGAGCGCCGC  
CGCCGGGACAAGATCAACAACCTGGATTGTACAGCTGTCCAAAATCATCCAGACTGCTCTATGGAGAGCA  
CCAAGTCTGGCCAGAGTAAGGGTGAATCCTGTCCAAAGCCTGTGACTATATCCAGGAACACTACGTCAGAG  
CAACCACCGGCTGTCTGAAGAGCTGCAGGGTTAGATCAGTTGCAGCTCGACAATGACGTGCTTCGACAG  
CAGGTGGAAGATCTTAAAAACAAGAACCTGCTACTACGAGCTCAGTTACGGCACCCAGGATTAGAGGTGC  
TCATCAAGAATGACAGCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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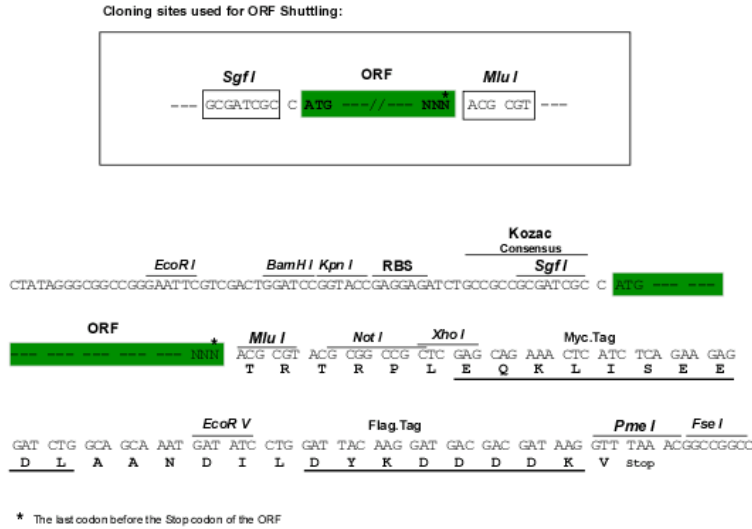
**Protein Sequence:** >RR213982 representing NM\_031777  
 Red=Cloning site Green=Tags(s)

MKGQQKTAETEEGTVQIQEGAVATGEDPTSVAIASIQSAATFPDPNVKYVFRTEGGQVMYRVIQVSEGO  
 LDGQTEGSGAISGYPATQSMQTQAVIQGAFSTDDAVDAEGTAAETHYTFPSTAVGDGSGGTTSGSTTAVV  
 TTQGEALLGQATPPSTGQFFVMMSPQEVLQGGSQRSIAPRTHPYSPKSEAPRTRDEKRRAQHNEVERR  
 RRDKINNWIQLSKIIPDCSMESTKSGQSKGILSKACDYIQELRQSNHRLSEELQGLDQLQLDNDVLRQ  
 QVEDLKNKNLLLRAQLRHHGLEVVIKNDSN

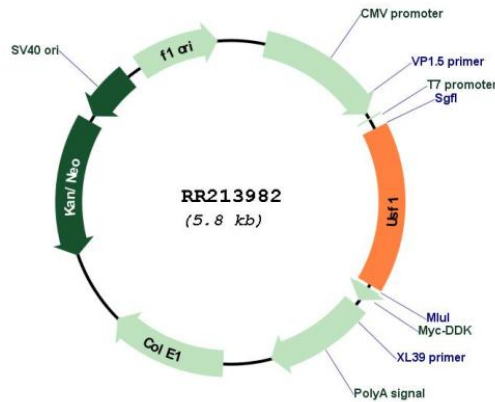
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031777

<b>ORF Size:</b>	930 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031777.2</a> , <a href="#">NP_113965.1</a>
<b>RefSeq Size:</b>	1720 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	83586
<b>Cytogenetics:</b>	13q24
<b>MW:</b>	33.6 kDa
<b>Gene Summary:</b>	regulates the expression of matrix cytokine osteopontin (OPN); may play a role in cellular glucose metabolism [RGD, Feb 2006]