

Product datasheet for **RR204194**

Usp5 (NM_001106619) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp5 (NM_001106619) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204194 representing NM_001106619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGAGTGAGGAGGCGCTGCTGTCACTGTTACCGACGATCCGTGTCCCAAGCGGGAGACC
 GGGTCCACAAAGACGAGTGTGCTTTCTCTTCGACACCCCGGAATCTGAGGGTGGCCTTTATATCTGCAT
 GAACACATTCTGGGATTTGGGAAACAGTATGTGGAGAGACATTTCAACAAGACAGGCCAGCGTGTCTAC
 CTGCACCTTCGGAGGACCCGGCGACCGAAAGAAGAGGACTCCAGCGCAGGCACTGGAGACCCACCCCGGA
 AGAAGCCACCCGGCTGGCCATTGGTGTGAAGGTGGGTTTACCTCACCGAGGACAAGTTTGAATATGA
 TGAGGACGTGAAGATTGTCATTTTCCAGATTACCTGGAGATCGCTCGGGATGGGTTGGGGGGCTTCCC
 GACATTGTCAGAGATCGGGTACCAGTGCAGTGGAAAGCCCTACTTTCGGTGATTACGCCTCTCGGAAGC
 AGGAGGTACAGGCTTGGGATGGGAAAGTCCGTGAGTGTCTAAGCATGCCTTCAACCTCAAGCAGTTGGA
 CAACCCCGCTCGGATCCCTCCCTGTGGCTGGAGGTGCTCCAAGTGTGACATGAGAGAGAACCTGTGGCTC
 AACCTGACAGATGGCTCCATCCTGTGCGGCCGGCGCTACTTTGATGGCAGCGGGGCAACAACCATGCTG
 TGGAGCACTACAGGGAGACTGGCTACCCCTTAGCTGTTAAGCTGGGCACCATCACACCCGATGGAGCTGA
 TGTGACTCTTACGACGAGGATGACATGGTCTGGACCCTAGCCTGGCAGAGCACCTGTCTCACTTTGGC
 ATCGACATGCTGAAGATGCAGAAGACGGACAAAACAATGACTGAGCTGGAGATAGACATGAACCAGCGGA
 TTGGTGAAGTGGGAGCTGATCCAGGAGTCAAGGCTGCCACTCAAGCCTCTCTTCGGGCTGGGTACACAGG
 CATCCGGAACCTGGGTAAACAGCTGCTACCTCAACTCCGTGGTCCAGGTGCTTTCAGCATCCCTGACTTT
 CAGAGGAAGTATGTGGATAAATTGGAGAAGATCTTCCAGAATGCCCAACGGACCCTACCAAGACTTCA
 GCACCCAGTGGGGAAGCTGGGGCACGGCTTCTCTGGAGAATATTCTAAGCCAGCACTGAGGAGGAGGAG
 TGATGGGAGCAGGTACCAGAACAAAAGGAAGTTCAAGATGGCATTGCCCTCGGATGTTCAAGGCCCTT
 ATTGGCAAGGGCCACCCTGAGTTCTCCACTAACCGGCAGCAGGATGCTCAGGAATTCTTCTACATCTTA
 TCAACATGGTGGAGAGGAATTGCCGGAGTTCTGAAAATCCAAATGAAGTGTTCGGCTTCTTGGTGAAGA
 GAAGATCAAGTGCCTGGCCACAGAGAAGGTTAAGTACACTCAGCGAGTTGACTACATCATGCAGTTGCC
 GTGCCATGGATGCAGCCCTTAACAAAGAGGAGCTTCTAGAGTATGAAGAGAAGAAGCGGCAAGCAGAAG
 AGGAGAAAGTAGCACTGCCAGAGCTGGTTCGGGCCAGGTGCCCTCAGCTCCTGCCTGGAAGCCTATGG
 GGCCCCGAGCAGGTGGATGACTTCTGGAGTACAGCTCTACAGGCGAAGTCGGTTGCTGTCAAGACTACA
 CGGTTTGCCTCCTCCCTGACTACCTGGTCAATCCAGATCAAGAAGTTCACCTTTGGCTTAGACTGGGTGC
 CCAAGAAGCTGGATGTGTCCATTGAGATGCCAGAGGAGCTAGATATTTCCAGCTGAGGGGCACAGGGCT
 ACAGCCCCGGAGAGGAGGAGCTGCCTGACATTGCCCCACCCTGGTCACTCCGGATGAGCCAAAAGGTAGC
 CTTGGTTTCTATGGCAACGAAGACGAAGACTCCTTCTGCTCCCCTCACTTCTCCTCTCCAACATCGCCCA
 TGCTGGACGAGTCCGTCGTACACAGTTGGTGGAGATGGGCTTCCTATGGACGCCTGCCGAAAGCCGT
 GACTATACAGGGAACAGTGGTGTGAAGCAGCCATGAACTGGGTCAATGTACACATGGATGACCCAGAT
 TTTGCCAATCCCCTCATCCTGCCTGGTCCAGTGGGCTGGCTCCACAAGTGCAGCAGCCGATCCCCAC
 CAGAGGACTGTGTGGCCACCATTGTCTCCATGGGCTTCTCACGGGACCAGGCCCTGAAAGCTCTACGGGC
 CACGAACAATAGCTTAGAGCGGGCTGTAGACTGGATCTTCAGTCACATTGATGACCTAGATGCAGAAGCT
 GCTATGGACATCTCAGAGGGACGCTCAGCTGCTGACTCCATCTCTGAGTCTGTACCAGTGGGACCTAAAG
 TCCGGATGGTCTGAAAGTATCAGCTCTTGCCTTATTAGTACATGGGCACGTCTACTATGTGTGG
 TCACTATGTCTGCCATATCAAGAAGGAAGGCAGATGGGTGATCTACAATGACCAGAAAGTGTGTGCCTCG
 GAAAAGCCACCAAGGACCTGGGCTACATCTACTTCTACCAGAGAGTGGTCAGC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204194 representing NM_001106619
Red=Cloning site Green=Tags(s)

MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPESEGLYICMNTFLGFGKQYVERHFNKTGQRVY
LHLRRTRRPKEEDSSAGTGDPPrKKPTRLAIGVEGGFDLTEDKFEYDEDVKIVILPDYLEIARDGLGGLP
DIVRDRVTSAVEALLSADSASRKQEVQAWDGEVRQVSKHAFNLKQLDNPARI PCGWRC SKCDMRENLWL
NLTDGSILCGRRYFDGSGGNH AVEHYRETGYPLAVKLGITPDGADVSYDEDDMVLDP SLAEHLSHFG
IDMLKMQKTDKTMTLEIDMNQRIGEWELIQESGVPLKPLFGPGYTGIRNLGN SCYLNSVVQVLF SIPDF
QRKYVDKLEKIFQNAPTDPTQDFSTQVAKLGHGLLSGEYSKPALES GDGEQVPEQKEVQDGIAPRMFKAL
IGKGHPEFSTNRQQAQEFFLHLINMVERNCRSSENPNVEVFRFLVEEKIKCLATEKVKYTQRVDYIMQLP
VPMDAALNKEELLE YEEKKRQAE EEEKVALPELVRAQVPFSSCLEAYGAPEQVDDFWSTALQAKSVAVKTT
RFASFDPDYLVIQIKKFTFGLDWVPKLDVSIEMPEELDISQLRGTGLQPGEELPDIAPPLVTPDEPKGS
LGFYGNEDSFCSPHFSSPTSPMLDES VVIQLVEMGFPM DACRKA VYYTGNSGAEAMNWVM SHMDDPD
FANPLILPGSSGPGSTSAADPPPEDCVATIVSMGF SRDQAL KALRATNNSLERAVDWIFSHIDDLDAEA
AMDISEGRSAADSI SESVPVGP KVRDGP GKYQLFAFISHMGTSTMCGHYVCHIKKEGRWVIYNDQKVCAS
EKPPKDLGYIYFYQRVVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

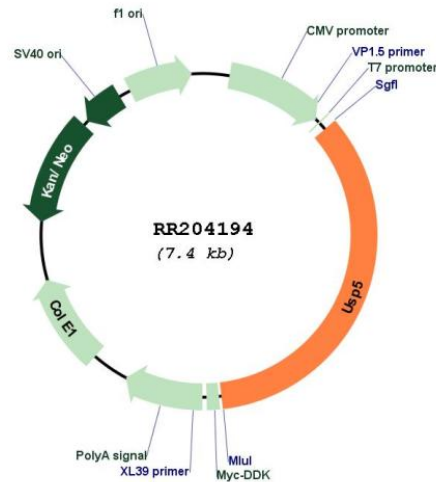
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001106619

ORF Size: 2574 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_001106619.1](#), [NP_001100089.1](#)

RefSeq Size: 3207 bp

RefSeq ORF: 2577 bp

Locus ID: 297593

Cytogenetics: 4q42

MW: 95.8 kDa