

Product datasheet for **MR210971**

Usp5 (NM_013700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp5 (NM_013700) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp5
Synonyms:	AA407472; ISOT; ISOT-1; Ucht
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210971 representing NM_013700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTGAGTGAAGAGGCGCTGCTGTCACTGTACCGACGATCCGTGTCCCCAAGCGGGAGACC
 GGGTCCATAAAGACGAGTGCCTTTCTCTTCGACACGCCGGAGTCTGAGGGTGGCCTCTATATCTGCAT
 GAACACATTCTGGGATTCGGAAGCAGTATGTGGAGAGACACTTCAACAAGACAGGCCAGCGTGTCTAC
 CTGCACCTCCGGAGGACCCGGCGACCGAAAGAAGAGGACACCAGTGCAGGCACTGGAGACCCACCTCGGA
 AGAAGCCACCCGGCTGGCCATTGGTGTGAAGGAGGGTTTGACCTCACCGAGGACAAGTTTGAATTTGA
 CGAGGATGTGAAGATTGTCATTTTGCCCGATTACCTGGAGATCGCTCGGGATGGTTGGGGGGCTTCT
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 AGGAGGTCAGGCTTGGGATGGGAAGTCCGTGAGTGTCCAAGCATGCCTTCAACCTCAAGCAGTTGGA
 CAACCCTGCTCGGATCCCTCCCTGTGGCTGGAAGTGTCCAAGTGCACATGCGCGAGAACCTGTGGCTC
 AACCTGACAGACGGCTCCATCCTCTGTGGACGGCGCTACTTCGATGGCAGTGGGGCAACAACCATGCTG
 TGGAGCACTACAGGGAGACTGGCTACCCCTTAGCTGTTAAGCTGGGCACCATCACCCGGATGGAGCTGA
 CGTGTATTCTTACGACGAGGATGACATGGTTCTGGACCCAGCCTGGCAGAGCACTTGTCTCACTTTGGC
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 CAGAGGAAGTATGTGATAAATGGAGAAGATCTTCCAGAATGCCCAACGGACCCACCCAAGACTTCA
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 GGCCCTGAGCAGGTGGACGACTTCTGGAGTACAGCTCTACAGGCGAAGTCCGTCGCTGTCAAGACCAG
 CGCTTTGCCCTCTCCCGACTACCTGGTCAATCCAGATCAAGAAGTTCACCTTTGGCTTAGACTGGGTGC
 CCAAGAAGCTGGATGTGTCCATTGAGATGCCAGAGGAGCTCGATATCTCCAGCTGAGGGGCACAGGGCT
 ACAGCCGGGAGAGGAGGAGCTGCCTGACATTGCCCCACCCTGGTCACTCCGGATGAGCCAAAAGGTAGC
 CTTGGTTTCTATGGCAACGAAGACGAAGACTCCTTCTGCTCCCCTCACTTCTCTCTCCGACATACCCA
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ACCGTACCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210971 representing NM_013700
 Red=Cloning site Green=Tags(s)

MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPESEGLYICMNTFLGFGKQYVERHFNKTGQRVY
 LHLRRTRRPKEEDTSAGTGDPPrKKPTRLAIGVEGGFDLTEDKFEFDEDVKIVILPDYLEIARDGLGLP
 DIVRDRVTSAVEALLSADSASRQVEVQAWDGEVRQVSKHAFNLKQLDNPARIPPCGWKCKCDMRENLWL
 NLTDGSILCGRRYFDGSGGNHVAHEHYRETGYPLAVKLGITITPDGADVSYDEDDMVLDPSLAEHLSHFG
 IDMLKMQKTDKTMTELEIDMNQRIGEWELIQESGVPLKPLFGPGYTGIRNLGNSCYLNSVVQVLFSSIPDF
 QRKYVDKLEKIFQNAPTDPTQDFSTQVAKLGHLLSGEYKPALESQDGEQVPEQKEVQDGIAPRMFKAL
 IGKGHPEFSTNRQQAQEFFLHLINMVERNCRSSENPNVEVFRFLVEEKIKCLATEKVKYTQRVDYIMQLP
 VPMDAALNKEELLEYYEKKRQAEKVKVPLPELVRAQVPFSSCLEAYGAPEQVDDFWSTALQAKSVAVKTT
 RFASFDPDYLVIQIKKFTFGLDWVPKLDVSIEMPEELDISQLRGTGLQPGEEELPDIAPPLVTPDEPKGS
 LGFYGNEDEDSFCSPHFSSPTSPMLDESVIIQLVEMGFPMDACRKAIVYTGNSGAEAMNWVMShMDDPD
 FANPLILPGSSGPGSTAAADPPPDCVTTIVSMGFSRDQALKALRATNNSLERAVDWIFSHIDDLDAEA
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 EKPPKDLGYIYFYQRVVS

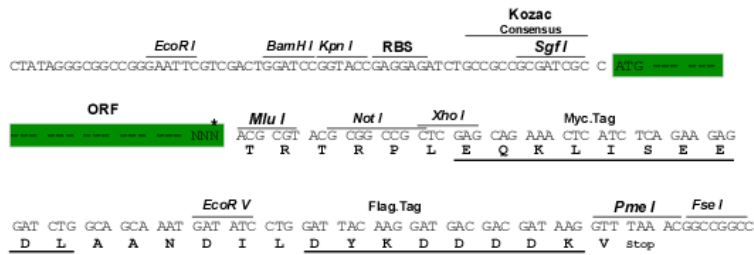
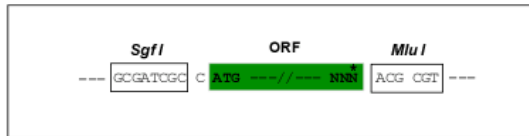
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

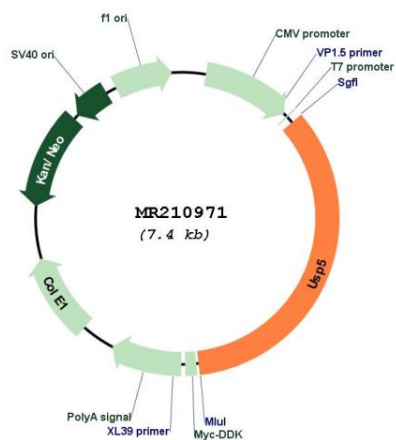
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_013700
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:	<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:	NM_013700.2 , NP_038728.1
RefSeq Size:	3176 bp
RefSeq ORF:	2577 bp
Locus ID:	22225
UniProt ID:	P56399
Cytogenetics:	6 59.17 cM
MW:	96.3 kDa
Gene Summary:	Cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers. Involved in unanchored 'Lys-48'-linked polyubiquitin disassembly. Binds linear and 'Lys-63'-linked polyubiquitin with a lower affinity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210971