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Product datasheet for MC205627

Usp10 (NM_009462) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp10 (NM_009462) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp10
Synonyms:	2610014N07Rik; mKIAA0190; UBPO; Uchrp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC007134
AGAAGATGGCGGCGACGGGAGACGCGGCGTGAGAAGCCGGAGCAGCACCGAACCTCATTGAGACGGGCCG
CCATGGCCCTCCACAACCCACAGTATATCTTTGGCGATTTCAGCCCTGATGAATTCAATCAGTTTTTTGT
GACTCCCCGCTCTTCTGTTGAGCTCCCTCCATACAGTGGGACTCTGTGTAGCATACAGGCTGAAGATGAA
CTGCCAGATGGACAGGAGCACCAGAGGATCGAGTTTGGTGTAGATGAAGTCATCGAACCTAGTGAGGGGC
TGCCGCGAACCCCTAGCTACAGTATTTCAAGCACCTTGAACCCCCAGGCACCCGAATTTATCCTTGGTTG
TACGACTTCTAAAAAGATCCCTGATGCCGTTGAAAAAGATGAGACCTACAGCTCCATTGACCAGTACCCC
GCCTCGGCCTTGGCTCTGGAAAGCAACTCTAACGCAGAGGCTGAGACCCTGGAGAACGACAGTGGTGCCG
GCGGCCTTGGTCAGAGGGAACGGAAAAAGAAGAAGAAGCGGCCCCCTGGGTACTACAGTTATTTGAAAGA
TGGCGGTGAGGACAGTGCTTCCCCAGCCACCCTGGTCAACGGCCATGCCACCTCAGTGGGCACAAGCGGC
GAGGCTGTGGAGGACGCCGAGTTCATGGACGTGCTTCCTCCAGTCATGCCCAGGACTTGTGACAGCCCTC
AGAATCCTGTGGACTTCATCAGTGGCCCTGTCCCTGACAGTCCGTTCCCCAGGACACTAGGAGGCGATGC
CAGGACTGCAGGGCTGTGTGAGGGCTGCCATGAAGCTGACTTTGAGCAGCCCTGCCTCCCTGCAGACAGC
CTGCTAAGGACAGCTGGGACGCAGCCCTACGTTGGCACCGATACTACTGAGAACTTCGCAGTTGCTAATG
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AAAAAGCTACTCTCACCCACGCACGAAAAACACTCTGTTTCCAATGGGCCCAGAAGCGACTTGATAGAGG
ACGAGGAGCTGGAAGACACGGGCAAGGGCAGCGAGGACGAGTGGGAGCAAGTGGGTCCCAAGAATAAGAC
GTCCATCACCCGGCAGGCGGACTTCGTCCAGACGCCCATCACTGGCATTTTTGGGGGACACATCAGGTCT
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AGTCTGACAAGATACGCACAGTCCAGGATGCGCTGGAGAGCTTGGTGGCCAGGGAGTCTGTCCAAGGTTA
CACCACCAAAACCAAGCAGGAGGTTGAGGTGAGCCGCAGAGTGACTCTGGAGAAGCTGCCCCCTGTCCTC
GTGCTCCACCTGAAGCGCTTTGTCTACGAGAAGACAGGCGGATGCCAGAAGCTGGTCAAGAACATTGACT
ACCCTGTGGACTTGGAGATCAGCAGAGAACTACTTTCTCCAGGCATCAAAAATAAAAATTTTAAATGCCA
GAGAACCTATAGGCTGTTTGCAGTGGTCTACCACCATGGCAACAGCGCTACAGGCGGCCACTACACTACG
GACGTCTTCCAGATTGGGCTTAATGGCTGGCTACGAATCGATGACCAAACGGTCAAGGTTATTAACCAGT
ACCAGGTGGTGAAACCGCCTGCCGACCGCACAGCCTACCTCCTATATTACCGCCGCGTGGACCTGCTGTA
ACCGTGCCCGTGTGCCCGTGTGTGCCTGACGCTGCTTCCTACAGTTCCCAACTCACTCACTACCCACCTC
TCTAGTGGCTCTGTAGAGAGACTCCCTCTGCGCCCGTGGGCTTGGATGGAAGGTGCCTGTGGGCCCGCAC
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AATAAGTCCCGCACCAGCAGCTCTTGTAAATTTGTGAAAATGAATTTTATCTTTCCTTAAAAAAATAATT
TTTTTAATTCATCACACTCTCCTCCTTTACCCTGTAGTTTTTGATAAATGACAAAAACGAGCCAGTCGTC
ATTAGAGATCGCTCTTACTTCAAAAGGAAATAAATACAAAAAAAACTTGTTGCTGGTTTCTAATAGGAAA
CACATTTTAACGATTACGAGAGGGAAACCGCTGACGTAGACACCGCGGGTCAGACATGTGGGTAGACGTC
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TCTGATGCCGTGTCCCCCACGTACACAGTGTATTGATTCCTAGGAGTATAAAGTTGTCACCCATCAATAA
AGATCACAAAGTTGGTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_009462
Insert Size:	2379 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC007134, AAH07134
RefSeq Size:	3330 bp
RefSeq ORF:	2379 bp
Locus ID:	22224
UniProt ID:	P52479
Cytogenetics:	8 E1
Gene Summary:	Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, BECN1, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. In turn, PIK3C3/VPS34-containing complexes regulate USP10 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling. Involved in a TANK-dependent negative feedback response to attenuate NF-kappaB activation via deubiquitinating IKBKG or TRAF6 in response to interleukin-1-beta (IL1B) stimulation or upon DNA damage. Deubiquitinates TBX21 leading to its stabilization. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).