

Product datasheet for **MC222595**

Usp20 (NM_028846) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp20 (NM_028846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp20
Synonyms:	1700055M05Rik; AI467231; Vdu2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222595 representing NM_028846
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGGACGCCAGACCTCTGCCCTCACCTGGACTGCATAGGGGAGGTGACCAAAGAGGATTTGCTGC
 TTAATCTAAGGGAACCTGCCAGTCATGTGGGGTTGCTGGACCTAACCTATGGGCTTGCCTCCAGGTCAC
 CTGCCCTTACGTTGGCTGTGGAGAGTCTTTTGGCTGACCATAGCAGCATTTCATGCCAGGTGAAAAAGCAC
 AACCTGACTGTGAACCTGACCACGTTCCGGGTCTGGTGTACGCCTGTGAGCGTGAAGTCTTTCTGGAGC
 AGCGTCTGGCAGTCCACCTGGCCAGCTCCTCAGCCAGGCTCTCAGAGCAGGACTCCCCACCCTCCCA
 CCCGCTGAAAGCTGTCCCTATTGCTGTGGCTGATGAAGGAGAGTCTGAGTCTGAGGATGACGACCTGAAG
 CCTCGAGGCCCTCACAGGCATGAAGAACCTGGGAACTCCTGTTACATGAATGCTGCCCTGCAGGCCCTTGT
 CCAATTGCCCCCGCTCACCCAGTCTTCTCTGGAGTGTGGTGGTCTGGTGCACAGACAAGAAGCCAGC
 CTTGTGCAAAAGTTACCAGAAGTTGATCTCTGAGGTGTGGCACAAGAAGCGGCCAAGCTATGTGGTCCCC
 ACCAGCCTGTCCCATGGGATCAAGTTGGTCAACCCGATGTTCCGAGGCTATGCCAGCAGGACACCCAGG
 AGTTCCTACGCTGCCTAATGGACCAGCTTCATGAGGAGCTCAAGGAGCCCATGGTCGCTGCTGTGGCAGC
 ACTCACCGATGCTCGGGACTCCGATTCCAGTGACACAGATGAGAGGCGTGATGGCGACCGGAGCCCATCA
 GAGGACGAGTTTCTGTCTGTGACTCGAGCAGTGACAGGGGTGAGGGTGATGGGCAGGGGCGTGGTGGAG
 GCAGCTCAAAGGCCGAGATGGAGCTGCTGATCTCAGATGAGGCGGGCCGAGCCATCTCTGAGAAGGAGCG
 GATGAAGGACCGCAAGTTCTCTGGGGCCAGCAGCGCACCAACTCAGAGCAAGTGGATGAGGATGCAGAT
 GTGGACACGGCCATGGCGTCCCTTGATGAGCAATCCAGAGAGGCCAGCCACCATCACCAAGTCCACCA
 GCCCTGCCAGACCCAGAACCCAGACAACGAAGCCACATACGCAGCTCCTCTCGTCCCTGCAGCCCTGT
 TCAACCACCACGAGGGCCATTCCAAGCTGTCCAGCAGCCCTCCTCGTGCAAGCCCTGTGAGGATGGGG
 CCGTCGTATGTGCTCAAGAAAGCCAGGTGCCAAGCACTGGTGGTCCGAGGCGGAAGGAGCAGAGCTACC
 GCAGTGTCTCAGACGCTTCAATGGCTCTGTCTCAGCCTGGTGCAGTGTCTTACCTGTGACCGGGT
 GTCTACCACAGTGGAGACATTCCAGGACCTGCTATTGCCCATCCCTGGCAAGGAAGATCTAGCCAAACTC
 CACTCTGCCATCTACCAGAATGTACCAGCAAGCCGGGTGCCTGTGGGGACAGCTATTCTCCAGGGCT
 GGCTGGCCTTCATCGTGGAGTACATCAGACGTTTGTGGTATCCTGTACCCAGCTGGTTTTGGGGACC
 TGTTGTCACTAGAAGACTGCCTTGTGCTTTCTTTGCTGCTGATGAGCTGAAGGGTGACAACATGTAC
 AGCTGTGAGCGGTGAAGAAGCTTCGGAATGGCGTGAAGTACTGTAAGTCTATGTCTGCCTGAGATTC
 TGTGCGTCCACCTGAAGCGCTTCCGGCATGAGGTGATGACTCCTTCAAGGTGAGCAGCCATGTCTCTTT
 CCCCCTCGAGGGACTGGACCTACGCCCTTTTCTGGCCAAGGAGTGACAGTCCCAGGTACCACCTATGAC
 CTCTCTCTGTCTGTCACTATGGCAGCAGGCGAGTGGGCACTACATTGCCTACTGTGAGAAGCTGA
 TCAATGGGCAGTGGTACGAATTCGATGACCAGTACGTCACCGAGGTCCATGAGACGGTAGTACAGAAGCT
 GGAGGCCCTACGTGCTGTTCTACAGGAAGAGCAGTGAAGGAGCCATGCGTGAGCGGCAGCAGGTAGTGTCC
 CTGGCTGCCATGCGGGAACCCAGCCTGCTCCGCTTCTACGTGTCCCGAGAATGGCTCAACAAATTCACCA
 CCTTTGCCGAGCCAGGGCCATCACCAACCACACCTTCTGTGCTCCCATGGAGGTATCCACCCAAACAA
 ATACCACTACATCGATGACCTGGTGGTCACTCTGCCGAGAGCGTCTGGGAGCACCTGTACAGCAGGTTT
 GGGGGCGGCCCTGCTGTGAACCATCTGTATGTGTGCTCCATCTGCCAGGTGGAGATTGAGGCCCTGGCCA
 AGCGCAGGAGGGTGGAGATTGACACTTTCATCAAGCTGAACAAGGCATTCCAAGCTGAGGAGTCTCCCGC
 GGTCTACTGTATCAGCATGCACTGGTTCAGAGAGTGGGAGGCCTTCGTCAAGGGGAAGGACAGTGAAG
 CCTCCCGGCCCATCGACAACAGCAGGATTGCCAGGTCAAAGGCAGTGGCCATATCCAGCTAAAGCAGG
 GGGCTGACTGTGGCCAGATTTCCGAGGAGACCTGGACCTATCTGAGCAGTCTGTATGGGGGCGGCCCTGA
 GATTGCCATCCGGCAGAGTGTGGCCAGCTCCAGACCCAGAAAGCTTGCACGGAGAGCAGAAGATTGAG
 GCTGAGACCCGGCTCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_028846
Insert Size:	2751 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:	<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_028846.5 , NP_083122.1
RefSeq Size:	4157 bp
RefSeq ORF:	2751 bp
Locus ID:	74270
UniProt ID:	Q8C6M1
Cytogenetics:	2 B
Gene Summary:	Deubiquitinating enzyme involved in beta-2 adrenergic receptor (ADRB2) recycling. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination beta-2 adrenergic receptor (ADRB2). Plays a central role in ADRB2 recycling and resensitization after prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of ADRB2 and inhibiting lysosomal trafficking of ADRB2. Upon dissociation, it is probably transferred to the translocated beta-arrestins, possibly leading to beta-arrestins deubiquitination and disengagement from ADRB2. This suggests the existence of a dynamic exchange between the ADRB2 and beta-arrestins. Deubiquitinates DIO2, thereby regulating thyroid hormone regulation. Deubiquitinates HIF1A, leading to stabilize HIF1A and enhance HIF1A-mediated activity. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (By similarity).[UniProtKB/Swiss-Prot Function]