

## Product datasheet for **MC222481**

### Usp33 (NM\_001076676) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp33 (NM_001076676) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp33
Synonyms:	9830169D19Rik; AA409780; Vdu1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222481 representing NM\_001076676  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGACTTTTCGAAATCATTGTCACATTTGGATTGAGTTGGTAAATAACGAAAGAGGACTTGATAC  
 AGAAATCTCTCGGCGCTTGTGAGGACTGTAAAGTCAGAGGACCAACCTGTGGCGTGCCTGGAGAATAG  
 GTGCTCTATGTTGGCTGCGGGGAGTCGCAAGTGACCACAGCACCATACACTCGCAGGAGACAAAGCAT  
 TATCTAACTGTGAACCTCACCCTCTTCGAGTATGGTGTATGCTTGCAGCAAAGAAGTATTTTTGGATA  
 GAAATTAGGAACTCCTCCTTACCTCATGTAAGACAGCCTCAACAAACACAAGAAAACAGTGTCCA  
 GGATTTTAAAATCCCAGTAATCCAGCATTGAAAACCCCATGGTTGCTGTGCTGAAGATCTGGATATA  
 GAAGTGGAAAGGAGACGAGCTGAAGGCTAGAGGCTGACAGGTTTAAAAACATTGGAATACTTGTT  
 ATATGAACGCGGCTGCAGGCTCTTTCTAACTGCCACCTTTGACACAGTCTTTCTTGATTGTGGAGG  
 ACTGGCTAGAACAGATAAGAAACCAGCAATTTGTAAAAGTTATCTCAAATAATGACCGAGTTGTGGCAC  
 AAGAGCAGGCCAGGATCTGTTGTCCGGCTAATCTGTTCCAAGGAATTAAGTGTAAATCCAACCTTTTC  
 GAGGTTATTCTCAGCAGGATGCCAGGAATTCCTTCGCTGTCTAATGGACCTGCTTCATGAGGAGCTGAA  
 GGAGCAGGTATGGAAATGGAGGAAGAGCCTCAACACTAACTTCTGAGGAGACGGTGGAGGAAGAGAAG  
 AGCCAGTCAGATGTGGATTTTTCAGTCGTGCGAGTCTTGTAGCAGCAGCGAAGAGCAGAAAATGAGAGTG  
 GCTCCAAGGCTTTCTGAGGACAGCAATGAGACCACCATGCTCATCCAGGACGAGGATGACCTGGAGAT  
 GGCCAAAGACTGGCAGAAAGAGAAGGTGTGCAATAAGTCAACAAGGCAAATGCCGATGTAGAATGGAC  
 AAAGACGGGACACAGTGTGTAAACAGTTGACCTAAACAGCCAGGAGACCGTCAAAGTCAGATACACG  
 GCAGAGCCTCAGAATCTATCACTGATGTCATCTGAATGACCTAGCTACGTCACAGATCCTTCTTCAAA  
 TGAAAGTGTAGTCCACGGTTATCAGCAAGCCCTCCTAAGCTAGGCACTGTGGCCAGGACTGTGCGCT  
 CCACACAAGAAAGCTCAGTCTACATCTGCAAAAGAGGAAAAAGCAGCATAAGAAATACAGAAGTGTATCT  
 CCGACATATTCGATGGAACAGTCATTAGCTCGGTACAGTGTCTGACGTGCGATAGGGTGTCTATAACCT  
 CGAGACCTTTTCAGGATCTGCTCTGCCGATTCCTGGCAAGGAGGACCTGGCTAAGCTGCACTCCTCCAGT  
 CACCCAACTATAGTCAAAGCAGGTCATGTGGTGAAGCGTACGCCCGCAGGGTGGATAGCTTTCTTCA  
 TGGAGTATGTGAAGAGCTGGTTTTGGGGTCCAGTAGTTACCTTGAAGATTGTCTTGCTGCCTTCTTCGC  
 CAGAGATGAACCTAAAGGTGACAACATGTACAGTTGTGAAAAATGCAAAAAGTTGAGGAATGGAGTAAAG  
 TTTTGTAAAGTACAGAAGTTTCTGAGATTTTGTGTATCCACCTAAAAGATTTTCGACATGAACCTGATGT  
 TTTCCACCAAAATTAGCACCCATGTTTCTTCCCCTGGAAGGCCTCGATCTTCAGCCATTTCTTGCAAA  
 GGACAGCCAGCTCAGATTGTGACATATGATCTCCTGTACGTATCTGTCAACATGGGACTGCAAGTAGT  
 GGGCACTACATTCGCTACTGCCGAAACAATTTAAATAACCTGTGGTATGAGTTTGTGACAGAGCGTCA  
 CTGAAGTTTCAGAGTCCACTGTACAGAATGCCGAGGCCTACGTCCTTTTCTACAGGAAGAGCAGTGAAGA  
 GGCACAAAAGGAGAGGCGGAGGATATCAAAATTTGTTGAACATCATGGAACCTAGCCTCCTCAGTTCTAC  
 ATATCTCGACAGTGGTTGAATAAATTTAAGACCTTTGCTGAACCTGGCCCTATTTCAAATAATGATTTTC  
 TCTGTATCCATGGAGTATTCTCCACGAAAAGCGAGTTATATTGAAGACTTAGTTTTGATGCTGCCTCA  
 GAACATTTGGGATAACCTCTATAGCAGGTATGGAGGAGGCTGCTGTCAACCATCTACATCTGCCAC  
 ACCTGCCAAATGAGTTAGAGAAGATTGAAAAACGAAGAAAAACCGAATTGGAAATTTTTATTTCGGCTCA  
 ACAGAGCATTTCAAGAGGAGACTCCCCAGCTACTTTTTACTGTATCAGCATGCAGTGGTTAGAGAATG  
 GGAGAGTTTTGTAAAGGATCCCCAGGTCCAATCGACAACACTAAAATTGCGGTTACTAAATGTGGCAGT  
 GTGATGCTCAAGCAAGGAGCAGACTCTGGTCAAATTTTCAGAAGAAACATGGAATTTCTGCAGTCTATAT  
 ATGGTGGGGGCTGAAGTTATCCTCCGACCTCCAGTTGTTTCATGTTGACCCTGATGTAAGTCCAAGCAGA  
 GAAAAGATTGAAGTAGAACTCGCTCTTTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001076676

<b>Insert Size:</b>	2694 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_001076676.2</a></u> , <u><a href="#">NP_001070144.1</a></u>
<b>RefSeq Size:</b>	4173 bp
<b>RefSeq ORF:</b>	2694 bp
<b>Locus ID:</b>	170822
<b>Cytogenetics:</b>	3 H3
<b>Gene Summary:</b>	<p>Deubiquitinating enzyme involved in various processes such as centrosome duplication, cellular migration and beta-2 adrenergic receptor/ADRB2 recycling. Involved in regulation of centrosome duplication by mediating deubiquitination of CCP110 in S and G2/M phase, leading to stabilize CCP110 during the period which centrioles duplicate and elongate. Involved in cell migration via its interaction with intracellular domain of ROBO1, leading to regulate the Slit signaling. Plays a role in commissural axon guidance cross the ventral midline of the neural tube in a Slit-dependent manner, possibly by mediating the deubiquitination of ROBO1. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination of beta-arrestins (ARRB1 and ARRB2) and 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, 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. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses two alternate in-frame splice junctions compared to variant 1, resulting in a shorter protein (isoform 2).</p>