

Product datasheet for **MC222547**

Usp33 (NM_133247) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Usp33 (NM_133247) 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: >MC222547 representing NM_133247
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGACTTTTCGAAATCATTGTCACATTTGGATTGAGTTGGTAAATAACGAAAGAGGACTTGATAC
 AGAAATCTCTCGGCGCTTGTGAGGACTGTAAAGTCAGAGGACCAACCTGTGGCGTGCCTGGAGAATAG
 GTGCTCCTATGTTGGCTGCGGGGAGTCGCAAGTGACCACAGCACCATACACTCGCAGGAGACAAAGCAT
 TATCTAACTGTGAACCTCACCCTCTTCGAGTATGGTGTATGCTTGCAGCAAAGAAGTATTTTTGGATA
 GAAATAGGAACTCCTCCTTACCTCATGTAAGACAGCCTCAACAAACACAAGAAAACAGTGTCCA
 GGATTTTAAAATCCCAGTAATCCAGCATTGAAAACCCCATGGTTGCTGTGTCTGAAGATCTGGATATA
 GAAGTGAAGAGGAGACGAGCTGAAGGCTAGAGGCTGACAGGTTTAAAAACATTGAAATACTTGTT
 ATATGAACGCGGCTGCAGGCTCTTTCTAACTGCCACCTTTGACACAGTCTTTCTTGATTGTGGAGG
 ACTGGCTAGAACAGATAAGAAACCAGCAATTTGTAAAAGTTATCTCAAATAATGACCGAGTTGTGGCAC
 AAGAGCAGGCCAGGATCTGTTGTCCGGCTAATCTGTTCCAAGGAATTAAGTGTAAATCCAATTTTC
 GAGGTTATTCTCAGCAGGATGCCAGGAATTCCTTCGCTGTCTAATGGACCTGCTTCATGAGGAGCTGAA
 GGAGCAGGTATGGAAATGGAGGAAGAGCCTCAACACTAACTTCTGAGGAGACGGTGGAGGAAGAGAAG
 AGCCAGTCAGATGTGGATTTTTCAGTCGTGCGAGTCTTGTAGCAGCAGCGAAGAGCAGAAATGAGAGTG
 GCTCCAAGGCTTTCTGAGGACAGCAATGAGACCACCATGCTCATCCAGGACGAGGATGACCTGGAGAT
 GGCCAAAGACTGGCAGAAAGAGAAGGTGTGCAATAAGTCAACAAGGCAATGCCGATGTAGAATGGAC
 AAAGACAGGGACACAGTGTGTAAACAGTTGACCTAAACAGCCAGGAGACCGTCAAAGTCAGATACACG
 GCAGAGCCTCAGAATCTATCACTGATGTCATCTGAATGACCTAGCTACGTCACAGATCTTCTTCAAA
 TGAAAGTGTAGTCCACGGTTATCAGCAAGCCCTCCTAAGCTAGGCACTGTGTGGCCAGGACTGTGCTC
 CCACACAAGAAAGCTCAGTCTACATCTGCAAGAGGAAAAAGCAGCATAAGAAATACAGAAGTGTATCT
 CCGACATATTCGATGGAACAGTCATTAGCTCGGTACAGTGTCTGACGTGCGATAGGGTGTCTATAACCT
 CGAGACCTTTGAGGATCTGCTTGGCATTCTGGCAAGGAGGACCTGGCTAAGCTGCACTCTCCAGT
 CACCCAACTATAGTCAAAGCAGGGTGTGTGGTGAAGCGTACGCCCGCAGGGTGGATAGCTTTCTTCA
 TGGAGTATGTGAAGAGGTTTGTGTCTCATGTGTCCCTAGCTGGTTTTGGGGTCCAGTAGTTACCTTGCA
 AGATTGCTTGTGCTTCTTCCGACAGATGAACTTAAAGGTGACAACATGTACAGTTGTGAAAAATGC
 AAAAGTTGAGGAATGGAGTAAAGTTTTGTAAAGTACAGAAGTTTCTGAGATTTTGTGTATCCACCTTA
 AAAGATTTGACATGAACTGATGTTTTCCACCAAATAGCACCCATGTTTCTTCCCTCCCGGAAAGGCT
 CGATCTTCAGCCATTTCTGCAAGGACAGCCAGCTCAGATTGTGACATATGATCTCCTGTGACATC
 TGTCCACATGGGACTGCAAGTAGTGGGCACTACATTGCCTACTGCCGAAACAATTTAAATAACCTGTGGT
 ATGAGTTTGTGACAGAGCGTCACTGAAGTTTTCAGAGTCCACTGTACAGAAATGCCGAGGCTACGCTCT
 TTTCTACAGGAAGAGCAGTGAAGAGGCACAAAAGGAGAGGCGGAGGATATCAAATTTGTTGAACATCATG
 GAACCTAGCCTCCTTCAGTTCTACATATCTCGACAGTGGTTGAATAAATTAAGACCTTTGCTGAACCTG
 GCCCTATTTCAAATAATGATTTTCTCTGTATCCATGGAGGTATTCCTCCACGAAAAGCGAGTTATATTGA
 AGACTTAGTTTTGATGCTGCCTCAGAACATTTGGGATAACCTCTATAGCAGGTATGGAGGAGGCGCTGT
 GCAACCATCTCTACATCTGCCACACCTGCCAAATGAGTTAGAGAAGATTGAAAAACGAAGAAAAACCG
 AATTGAAATTTTTATTGCGCTCAACAGAGCATTTCAGAGGAGGACTCCCCAGCTACTTTTTACTGTAT
 CAGCATGCAAGTGGTTAGAGAATGGGAGAGTTTTGTAAGGGTAAGGATGGAGATCCCCAGGTCCAATC
 GACAACACTAAAATGCGGTTACTAAAATGTGGCAGTGTGATGCTCAAGCAAGGAGCAGACTCTGGTCAAA
 TTTCAGAAGAAACATGGAATTTCTGCAGTCTATATGTTGGGGGCTGAAGTTATCTCCGACCTCC
 AGTTGTTTATGTTGACCTGATGACTCCAAGCAGAGGAAAAGATTGAAGTAGAACTCGCTCTTTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_133247

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| Insert Size: | 2730 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_133247.3 , NP_573510.2 |
| RefSeq Size: | 4209 bp |
| RefSeq ORF: | 2730 bp |
| Locus ID: | 170822 |
| UniProt ID: | Q8R5K2 |
| Cytogenetics: | 3 H3 |
| Gene Summary: | <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 (1) represents the longest transcript and encodes the longest isoform (1).</p> |