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Product datasheet for MC222163

Usp13 (NM_001013024) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp13 (NM_001013024) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp13
Synonyms:	2700071E21Rik; AI848077; IsoT-3; ISOT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222163 representing NM_001013024
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGCCGGGGCGCCCTGTTCAGCGTGCCGGGCGGCGGCGGGAAGATGGCTGCAGGGGACCTGGGCG
AGCTGCTGGTGCCTCATATGCCCACGATCCGCGTGCCCAGGTCGGGGGACCGCGTCTACAAGAACGAGTG
CGCCTTCTCCTACGACTCCCCGAACTCTGAAGGTGGGCTCTACGTATGCATGAATACCTTTTTGGCCTTT
GGAAGGGAACACGTAGAAAGACACTTTCGAAAAACTGGACAGAGCGTATACATGCACCTGAAGAGGCACA
TGCGAGAGAAGGTAAGAGGAGCCTCTGGTGGAGCTTTACCCAAAAGGAGGAATTCCAAGATATTTTTAGA
TCTAGATATGGATGACGATTTAAATAGTGACGATTACGAATATGAAGACGAAGCCAAACTTGTTATATTC
CCAGACCACTATGAAATAGCCCTTCCTAACATTGAGGAGTTACCAGCCCTGGTAACAATTGCTTGTGATG
CAGTGCTCAGCTCAAAGTCCCCTTACAGGAAGCAGGATCCAGACACATGGGAAAACGAAGTGCCAGTATC
GAAGTATGCCAACAACCTTGTGCAACTGGACAACGGGGTCAGGATTCCTCCCAGTGGCTGGAAGTGTGCC
CGATGTGACCTGCGGGAGAACCTCTGGTTGAATCTGACTGACGGCTCTGTTCTGTGTGGGAAGTGGTTTT
TTGACAGCTCAGGGGGCAACGGCCACGCACTGGAGCATTACAGGGACATGGGCTATCCTCTGGCCGTGAA
GCTGGGCACCATCACACCTGATGGGGCAGATGTTTATTCTTTTCAAGAAGAGGGGCCTGTTTCGGATCCT
CATTTGGCCAAACACTTAGCACATTTTGGGATCGACATGCTCCACACGCAAGGGACAGAGAACGGTCTCC
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GATGTACGGCCCAGGGTACACGGGCCTGAAGAACCTGGGCAACAGTTGCTACCTCAGTTCTGTCATGCAG
GCCATCTTCAGCATCCCAGAGTTCCAGAGAGCGTATGTAGGAAACCTCCCAAGGATATTTGACTACTCAC
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CTCGAAGCCTCCAGTGAAATCTGAGCTCATTGAACAGGTGATGAAGGAGGAGCACAAGCCTCAGCAGAAT
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AGGATGCCCAGGAGTTTTTCTTGCATTTGGTCAATCTGGTAGAGAGGAATCGCATTGGCTCAGAAAACCC
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GAGAGGGTGGACTACCTAATGCAGTTACCTGTGGCCATGGAGGCAGCAACCAACAAAGATGAGCTGATCA
CCTATGAACTCATGCGGAGGGAAGCAGAAGCCAACAGAAGACCCCTACCTGAGCTGGTGCGAGCCAAGAT
CCCATTCAGTGCCTGCCTTCAGGCCTTTGCTGAACCAGACAATGTGGATGATTTCTGGAGCAGCGCTCTG
CAGGCCAAGTCTGCAGGGGTCAAAACTTCTCGCTTTGCCTCATTCCCTGAATACTTGGTAGTGCAGATAA
AGAAGTTCACTTTTGGTCTTGACTGGGTTCCCAGAAAATTTGATGTTTCTATTGATATGCCAGACCTACT
AGATATCAGCCATCTCAGAGCCAGGGGCTTGCAGCCAGGGGAAGAGGAGCTTCCTGACATCAGCCCCCCC
ATAGTCATTCCTGATGACTCAAAAGACCGCTTGATGAACCAGTTGATAGACCCCTCAGACATTGATGAGT
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GAACACCGGAGCTGAGGTGGCCTTCAACTGGATTATCGTGCACATGGAGGAGCCTGACTTTGCTGAACCA
CTGGCCATACCTGGGTATGGAGGGGCTGGGGCCTCTGTCTTTGGTGCTACTGGATTGGACAACCAACCTC
CTGAGGAAATCGTAGCTATTATCACCTCGATGGGATTCCAGCGAAATCAGGCAGTGCAGGCTCTACAAGC
AACGAATCATAACCTGGAAAGAGCACTGGACTGGATCTTCAGCCACCCCGAGTTTGAAGAGGACAGTGAC
TTTGTGATCGAGATGGAGAACAATGCAAATGCCAACATCGTGTCTGAGGCCAAGCCAGAGGGACCCAGAG
TGAAGGATGGGTCTGGAATGTACGAGTTGTTTGCTTTCATCAGTCACATGGGAACATCTACAATGAGTGG
CCATTATGTTTGCCATATCAAGAAAGAGGGACGATGGGTGATCTACAATGACCACAAAGTTTGTGCCTCA
GAAAGGCCCCCCAAAGACCTGGGCTATATGTACTTTTACCGCAGGATACCAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013024

Insert Size: 2577 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:	NM_001013024.2, NP_001013042.1
RefSeq Size:	4686 bp
RefSeq ORF:	2577 bp
Locus ID:	72607
UniProt ID:	Q5BKP2
Cytogenetics:	3 A3
Gene Summary:	Deubiquitinase that mediates deubiquitination of target proteins such as BECN1, MITF, SKP2 and USP10 and is involved in various processes such as autophagy and endoplasmic reticulum-associated degradation (ERAD). 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. Also deubiquitinates USP10, an essential regulator of p53/TP53 stability. In turn, PIK3C3/VPS34-containing complexes regulate USP13 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Recruited by nuclear UFD1 and mediates deubiquitination of SKP2, thereby regulating endoplasmic reticulum-associated degradation (ERAD). Also regulates ERAD through the deubiquitination of UBL4A a component of the BAG6/BAT3 complex. Mediates stabilization of SIAH2 independently of deubiquitinase activity: binds ubiquitinated SIAH2 and acts by impairing SIAH2 autoubiquitination. Has a weak deubiquitinase activity in vitro and preferentially cleaves 'Lys-63'-linked polyubiquitin chains. In contrast to USP5, it is not able to mediate unanchored polyubiquitin disassembly. Able to cleave ISG15 in vitro; however, additional experiments are required to confirm such data.[UniProtKB/Swiss-Prot Function]