

## Product datasheet for **MC229360**

### Usp8 (NM\_001252580) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp8 (NM_001252580) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp8
Synonyms:	A1574262; AW557536; mKIAA0055; Ubpv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229360 representing NM_001252580 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTAGCTTCAGTTCTAAAGAACTCTACCTCAGTTCTTCACTAAAAGACCTCAATAAGAAGA  
CCGAAGTTAAACCTGAGAAAACCAGCACCAAGAATACCAAGTTTTGTAATTCCTTCGTTTCTAAGTTA  
TATACACAGCGCGCAGAAGATCTTCAAGACAGCAGAAGAATGCAGACTAGATCGTGATGAGGAAAGGGCC  
TATGTGCTTTATGAAATATGTGGCAGTTTATAATCTTATCAAAAAGAGACCTGATTTCAAGCAACAGC  
AGGATTATTATCTTTCAATACTTGGACCTGCAAACATCAAAAAAGCTATTGAAGAAGCTGAAAGACTCTC  
CGAAAGCCTTAACTAAGATACGAAGAGGCTGAAGTTCGGAAACAACCTGAAGAAAAGGACAGACGGGAG  
GAAGAGCAGCTGCAGCAACAGAAAAGGCAGGAGATGGGGAGAGAGGACAGCGGTGCGGCAGCCAAACGCT  
CTGTGGAAAATTTACTGGATTCCAAAACCAAACCCAAAGGATTAACGGCGAGAAGAGTGAAGGAGCTGC  
AGCTGCAGAGAGAGGAGCCATCACAGCAAAGAACTATACGATGATGATGGATAAAAACAAGCTTA  
ATTATAATGGATGCTCGAAAAATACAGGATTATCAGCATTCTGTATCTTGGATTCTCAGTGTTCCTG  
AAGAAGCTATCAGTCCAGGAGTCACTGCTAGTTGGATTGAAGCAAACCTCTCAGATGATTCTAAAGACAC  
ATGGAAAAGAGGGGAGTGTGGACTATGTGGTCTTCTCGACTGGTTTAGTTTCAGCGAAAGATTTGCTG  
CTTGGGACCACTACGGAGTCTGAAAGATGCACCTTTTCAAGTGGGAAAGTAAAACCTGTCTGCGCCATG  
AGCCTTTGGTGTGGAGGGCGCTATGAAAACCTGGCTTTGCTACCCGCAAGTTTACAACCAATGCTAA  
GGTCACTCCACCCCTCGGAGCAGAGCTGAAGAGGTGTCTGTCTCATTGGATTTACTTATCCCTCATTG  
GAAGAACCAGTTCCTTCCAACTTCTACCCAGATGCCACCTCCTCCTATAGAAACAAATGAAAAGGCAC  
TGTTGGTAACTGATCAAGATGAAAAGCTGAGACTGTCAACCCAGCCAGCTCTAGCTGGACCTGGTGGCC  
TCCAGAGCTGAAGCCTCACCCATAATTCAGCCAGCGCCTGTACAAAGAGTGTCCACAGGTTGATCGT  
ACGAAAAAACCGTCAGTCAAGTTGCCTGAAGATCATAGAATAAAATCTGAAAATACAGATCAGAGTGAA  
GAGTTCTTCTGATCGATCCACCAAGCCAGTATTTCCCTCTCAACCACCATGTTAACAGATGAAGAAA  
GGCTCGTATTCATCAAGAACTGCCCTTCTATGAAAAGAATAAACAGGAGAAGGAACTTTGGGACAAG



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CAGCAGAAGGAACAGAAAAGAGAAGCTGAGAAGGGAGGAACAAGAGCGCAAAGCTGGAAAGACACAGGATG  
 CAGATGAACGTGACTCCACTGAGAATCAGCACAAAGCAAAGGATGGACAAGAGAAAAAGACAGCAAACA  
 GACCAAGACGGAAGACAGAGAGCTTTCAGCAGACGGGGCCAGGAAGCCACAGGAACACAAAGACAAAGT  
 AAGAGTGAGCATGAAGCTTCTGATGCTAAGGTACCTGTGGAAGGTAAAAGGTGTCCCACGTGAGAGGCGC  
 AGAAGAGGCCAGCAGATGTGCCCTGCATCCGTGTGAGGAGAGCTGAATGCAGGCAAGGCTCAGCGAGA  
 ACCTTTGACGAGAGCACGAAGTGAAGAAATGGGGAGAATTGTGCCGGGACTGCCTTTGGGCTGGGCAAG  
 TTTCTTGATCCAATCACGGGACCTTTCGTTACTACCATTCCCCACAAACACAGTTCATATGTATCCAC  
 CTGAAATGGCTCCTTCGTCTGCACCTCCTTCCACCCCGCCACTCACAAAGTCAAGCCCCAGGTCCTGC  
 CGAGCGGGACAGGGAGCCATCGAAACTGAAGCGCTCCTACTCCTCACCAGATATCACTCAGGCCCTGCAG  
 GAGGAGGAGAAGAGGAGGCCGAGTGACCCCGATGGTCAACCGGGAAAAACAAGCCACCATGTTACCCTA  
 AAGCTGAGATTTGAGGCTTTCTGCTTCTCAGATTCGGAACCTCAATCCTGTATTTGAGGATCAGGACC  
 AGCTCTTACTGGACTTCGTAATTTGGGAAATACTGTTACATGAAGTCAATCTTGCAAGTGCCTGTGTAAT  
 GCTCCACATCTGGCTGATTATTTCAACCGAAACTGCTACCAGGATGATATCAACAGGTCAAATTTGTTGG  
 GGCATAAAGGTGAAGTGCAGAGAAGATTTGGTATAATCATGAAAGCACTGTGGACAGGACAGTATAGATA  
 CATCAGTCCAAGGACTTTAAAGTCACCATTGGTAAGATTAATGACCAGTTTGCAGGCTCCAGCCAAACAG  
 GATTCACAAGAGCTGCTTCTGTTCTCATGGATGGCTGCATGAGGATCTGAATAAGGCTGACAATCGGA  
 AGAGGCACAAGGAAGAGAAACAACGAGCACCTGGATGACCTGCAGGCGGCCGAGCACGCCTGGCAGAAGCA  
 CAAGCAGCTCAACGAGTCCATCATCGTGGCCCTGTTCCAGGGCCAGTTCAAGTCCACAGTGCAGTGCCTC  
 ACCTGCCCGAGGAGTTCGCGCACCTTCGAGGCCTTCATGTACTTGTCTTTGCCGCTAGCATCCACAAGTA  
 AATGTAAGTCTACAGGACTGCCTTAGATTATTTCCAAAGAAGAAAAGCTTACAGATAACAACAGATTTTA  
 CTGCAGCCATTGCCGAGCTCGGCGGGATTCTCTAAAGAAAATAGAAATCTGGAAATTACCTCCTGTGCTG  
 TTAGTGACCTGAAACGATTTTCCTATGACGGCAGGTGGAAGCAGAAGCTGCAAACATCCGTGGATTTC  
 CATTGGAAAATCTTGACCTGTCACAGTACGTTATTGGTCCAAAAACAGCTTGAAGAAATAAAGTTGTT  
 TTCTGTTTCAAACCACTACGGCGGGCTAGACGGAGGCCACTACACAGCCTACTGTAAGAACGCGCAAGG  
 CAGCGCTGGTTTAAAGTTTATGACCATGAAGTTTCTGATATCTCTGTGCTTCTGTGAGGTCATCAGCAG  
 CTTATATCCTCTTTTATACTTCCCTGGGACCACGCATAACTGATGTAGCCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001252580
- Insert Size:** 3276 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001252580.1](#), [NP\\_001239509.1](#)

**RefSeq Size:** 4210 bp

**RefSeq ORF:** 3276 bp

**Locus ID:** 84092

**Cytogenetics:** 2 F1

**Gene Summary:** Hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. Converts both 'Lys-48' and 'Lys-63'-linked ubiquitin chains. Catalytic activity is enhanced in the M phase. Involved in cell proliferation. Required to enter into S phase in response to serum stimulation. May regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. Probably regulates the stability of STAM2 and RASGRF1. Regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. Deubiquitinates EPS15 and controls tyrosine kinase stability. Removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. Involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules. Deubiquitinates BIRC6/bruce and KIF23/MKLP1 (By similarity). Deubiquitinates BACE1 which inhibits BACE1 lysosomal degradation and modulates BACE-mediated APP cleavage and amyloid-beta formation (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).