

Product datasheet for **MC229208**

Usp15 (NM_001301628) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp15 (NM_001301628) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp15
Synonyms:	4921514G19Rik; AI327321; E430033I05Rik; Gcap; Gcap18
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229208 representing NM_001301628
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAAGCGGAGCGCGGACCTGGACACCCAGCGTTCTGACATCGGACGCTGCTCAAACCTCGC
 TCCGAAAAGGGGACACCTGGTATCTAGTAGATAGTCGGTGGTTCAAACAGTGGAATAAATATGTTGGCTT
 TGACAGCTGGGACAAATACCAGATGGGAGATCAAATGTCTATCCTGGACCCATCGATAACTCTGGACTT
 CTCAAAGATGGCGACGCGCAGTCACTTAAGGAGCACCTTATTGATGAGTTGGATTACATACTCTTGCCAA
 CTGAGGGCTGGAATAAATTGTCACTGGTACACACTGATGGAGGGCCAGGAGCCAATAGCAAGAAAGGT
 GGTAGAACAGGGTATGTTGTAAAGCACTGCAAAGTAGAAGTCTACCTCACAGAAGTGAAGCTCTGTGAG
 AACGGGAACATGAACAATGTTGTAAGTTCGGAGGTTTAGCAAAGCTGACACAATAGATACGATTGAGAAGG
 AAATAAGAAAAATCTTCAATATCCAGATGAGAAGGAGGCCAGACTGTGGAACAAGTATATGAGCAACAC
 ATTTGAACCACTGAATAAGCCAGACAGCACCATCCAGGATGCCGGCTATACCAAGGACAGGTGTTAGTG
 ATAGAGCAAAAAATGAAGATGGAACGTGGCCAGGGTCCCTCTACTCCTAATGTGAAAAACTCAAATT
 ATGTCTCCCGTCATATACTGCTTATAAGAACTATGATTATTCAGAACCTGGAAGAAACAATGAACAGCC
 AGGCTGTGTGGCTTAAGTAACCTGGGAAATACGTGTTTCATGAACTCAGCCATTCAGTGTTTGAGCAAC
 ACACCTCCACTTACTGAATATTTCTCAATGATAAGTACCAAGAAGAGCTGAATTTTGACAATCCCTTAG
 GAATGAGAGGTGAAATAGCTAAATCATACGCTGAACTCATCAAGCAGATGTGGTCTGGAAAGTTAGCTA
 CGTCACTCCAAGAGCATTCAAGACACAGGTAGGGCGCTTCGCACCTCAGTCTCTGGATATCAACAGCAG
 GACTGCCAAGAAGTACTGGCTTTCTGTTGGATGGACTGCACGAGGACCTGAATAGAATTAGGAAAAAAC
 CCTATATCCAGTTAAAAGATGCTGATGGCAGGCCAGACAAGGTGGTTGCTGAAGAAGCTGGGAAACCA
 TTTAAAGCGAAAATGATTCATCATAGTAGACATATTCATGGCCTTTTCAAGTCTACGTTAGTGTCTCT
 GAGTGTGCTAAGATCTCGGTGACCTTTGACCCTTTCTGTTACTTGACTCTTCCATTGCCTATGAAAAAG
 AACGTAGCTTGGAAAGTTATTTAGTTAGAATGGATCCACTTGCTAAACCTATGCAATACAAAGTTATTGT
 GCCAAAATTTGAAATATACTAGATCTTTGTACAGCGCTGTCTGCTTTGTGGGAGTACCTGCAGATAAG
 ATGATAGTCACTGACATATACAATCATAGATTTTACAGGATATTTGCCGTGGATGAAAACCTGAGTAGTA
 TTATGGAGCGGGATGATATTTACGTGTTTGAATTAACATCAACAGGGCAGAAGACACAGAGCATGTAGT
 TATCCCTGTCTGCCTAAGAGAAAAATTCAGACACTCAAGTTACACTCACCACACTGGCTCTTCACTGTT
 GGCCAGCCTTTTCTTATGGCTATACCACGAAACAATACTGAAGATAAACTCTATAATCTTCTACTCTTGA
 GAATGTGCCGGTATGTCAAATGTCTACTGAAACTGAGGAAACAGATGGACACCTACGTTGCTGTGAGGA
 CCAGAATATTAATGGGAATGGGCAAAATGGCCTACATGAAGAGGGTTACCAAGTGAGATGGAAACCGAC
 GAGCCAGATGACGAGTCCAGCCAGGATCAAGAGCTTCCCTCAGAGAACGGAACAGTCAGTCTGAAGATT
 CAGTCCGAGGAGATAACGATTCTGAAAATGGATTGTGCACTGAAGAAACATGCAAAGGTCAACTACGGG
 ACACAAAAGCGCTTGTTTACATTCCAGTTCAACAACCTTAGGCAACAATGACATCAACTACATCAAAGAC
 GACACCAGTCACATCCGATTCGATGACAGGCAGCTTCGGCTGGACGAAAGATCTTTCTCGCTTTGGACT
 GGGACCCTGACTTGAAGAAGAGATACTTTGATGAGAATGCTGCAGAGGATTTTGA AAAACATGAAAGTGT
 GGAATACAAACCTCCAAAAGGCCCTTTGTGAAGTTAAAAGACTGCATTGAGCTCTTACCACCAAGGAG
 AAGCTGGGTGCTGAGGACCCCTGGTATTGTCAAATTGTAAGAGCATCAGCAAGCCACAAGAAATTAG
 ATCTGTGGTCCCTGCCTCCAGTCTTGTGGTGCATCTCAAGAGATTCTCCTATAGTCGCTACATGAGAGA
 CAAGCTAGATACATTAGTCGATTTTCCCATCAGTACTTGGATATGTCAGAATTCCTAATTAACCCAAAT
 GCAGGTCTTGCCGCTATAATTTGATTGCTGTTTCCAACCACTATGGAGGGATGGGAGGAGGACATTATA
 CTGCTTTTGCAAAAACAAGATGATGGGAAGTGGTACTATTTGATGACAGTAGCGTCTCCACTGCATC
 TGAAGACCAAATCGTGTCCAAGGCAGCGTACGTGCTCTTCTACCAGAGACAGGACTTTTCAAGTGGGACT
 GGCTTCTTCCCTCTTGACCGAGAACTAAAGGTGCTTCAAGTGCACAGGTATCCCCTGGAAAGTGACG
 AAGACAGCAATGATAATGACAATGACCTAGAAAATGAAAAGTGTATGCACACTAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001301628
Insert Size:	2859 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:	<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:	<u>NM_001301628.1</u> , <u>NP_001288557.1</u>
RefSeq Size:	11477 bp
RefSeq ORF:	2859 bp
Locus ID:	14479
UniProt ID:	<u>Q8R5H1</u>
Cytogenetics:	10 D2
Gene Summary:	<p>The protein encoded by this gene is a member of the large ubiquitin specific protease (Usp) family of proteins. These proteins are known to cleave ubiquitin, and contain a conserved cysteine residue (Cys box) and two conserved histidine residues (His box) that are thought to form part of the active site of the protease. This protein has been shown to cleave both the ubiquitin-proline and the ubiquitin-methionine bonds in vitro. This protein is thought to regulate many cellular processes through its deubiquitination activity, including the transforming growth factor beta (TGF-beta) pathway. Cardiac-specific overexpression of the human ortholog of this gene in mice causes enlargement of the heart that is more pronounced in the atrium than in the ventricle. This gene has two pseudogenes on chromosome 14. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms.[provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>