

## Product datasheet for **MR226485**

### Usp37 (NM\_176972) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp37 (NM_176972) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp37
Synonyms:	4932415L06Rik; C330008N13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226485 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTCCCTGAAGATCTATGGTCTATCAGAATTCGAAGCATGCAGACTGGGATTACAAAGTGGAAAG  
 AAGGGTCCTTTGAAATTGTGAAAAAGACAATAGAGTCAGCCTGCTCGTTCACTACAACACTGGAGGAAT  
 TCCAAGAGTGTTCAGCTAAGTCATAACATTAATAATGTGGTACTACGACCCAGTGAATAAAAACAAGC  
 CGCCTAATGTTGACTTTACAAGATAACAGCTTCTTGTCTATTGACAAAGTACCAAGTAAGGATGCAGAGG  
 AAATGAGGTTGTTCTAGATGCCGTCCATCAAACAGACTTCATGCAGCTATGAAAGCTTCTCAAGTTC  
 TGGTAGTTTTGGAATTTCTGGGCAGCAGGACCTCTCAGAAGGAACTAACAGACAGCTTTCTTACTCA  
 GACAATCAGGCCCTTTCAAAAAGAGGAAGTTAGAACTAAAGATGAAATTCATTTGAAAAGTCTTG  
 GCAGTCTGGTAGAGGACCAATTAAGACTGTAAGTGGAGGTGGAATGGCTGTTACCCGGACTATTCCTTC  
 TTTGACGCTGACATCAACACCTTTAGATCAGGATTATTAGAAAACCGCACTGAAAAGAGGAAAAGATG  
 TTATCTGGTTCAGAGCTGACTGAAGATTACCCTAAGGAAAATGACTCATCATCGAACAAACAAGCTATGA  
 CAGACCCTTCAAGAAAATATTAACAGCTGTAGAGAAAAGCAGCTGAGTTTGAACAGGCAGAAGAAAA  
 TCGAACATCAGGGCTTTTACCTCTGCAGTCATCCTCATTCTATGGGAGCAGAGCTGGATCAAAGGACTAC  
 TCTTCTGGTGTCACTAACCTGGACAGGTGTAATGTTTTCAAGCCAGACTCCTTCTGCCAAAAGAAGCTGG  
 GTTTTCTCTCAGCCAACTCCTCTGTCTGTTAAAAACTGAGGTGTAACAGGATTACCGGGCTGGAA  
 CAGACCTAGAGTGCCCTTTCTCCCATCAACAGCAGCTGCAGGGATTCTCAACTTGGGAAATACATGC  
 TATATGAATGCTATCTTACAATCTGTCTTCACTCCAGTCATTGCAAATGATTTGCTTAAACAAGTA  
 TCCCATTGGAAGAAAATCCATTCATCACTTATCAGACGCTTTGCAAACCTGCTTATTAATAAGATAT  
 TTGTAATTCAGAGACCAAAAAGAAGACTACTTAAGAAGGTTAAAAATGCTATTTTCAGCTACTGCAGAGAGA  
 TTCTCTGGCTATGTCAAATGATGCTCATGAATTTTTAAGTCAGTGCTTAGATCAGCTAAAGGAGGATA  
 TGGAAAACACTGAAATAAACTTGAAGACAGAACCTGTCCTTGGAGAAGAAAATTTGCCAGATACATCAGC  
 TACCAAAGTGTTCACGTGCCCTGTTATTACAACTTGGAGTTTGAAGTTCAGCACTCCATTATCTGTAAA  
 GCATGTGGAGAACTATCCCAAAGAGAACAGTTCAATGACCTCTCCATTGACCTTCTCGGAGGAAAA  
 AGCCACTCCCTCCTGTTCAATCCAAGATTCTCTCGATCTTTCTTTAGGGCAGAAGAATTGAATACTC  
 ATGTGAAAAGTGTGGTGGAAAATGTGCTTTGTCAGGCACAAATTAACAGGCTGCCAGGGTCTCATC  
 CTTCAATTTGAAGCGATACAGCTTCAATGTGGCTCTCTCACTTAAACAAGCTCGGACAGCAAGTATCA  
 TCCAAGATTCTGACCTGGCCTCCCACTGCACTGAGAGCACAAGCCGCCGGTACCCTTGGGTGGAG  
 CGCACCGTGGCAATTTCTAGACCATTGAGAGCCTGTCAAATGGTGAATTCCTGCATCACAGCCCTTCT  
 GCACCTTCAAAGAAATCACCTTCAAATCCAAGAGCTCCGTGACATCATGCCTTGATTGAGACAGTGAGG  
 ATGAACTAAACGCTCTGTGGTCTCAGTCAGAGACTTTGTGATTTGCCAGGCAATGAACAGTACCAGGA  
 AGATGTGGAAAAAGATTTGAAATTTGTGCAGATTAGAGCTGGGAAGGCAGAAGTGGAGAAGTCAAGGATTT  
 GACAGAATGAGTGAGGAAGAGGTGCTGGCAGCTGTGTTAGAGATAAGCAGGAGAGAAGCTTCGCCGGTAC  
 TTAGCCCTGAAGATGATGATAAGCCAACCAGCAGTCCGGACCCGGCTTTCAGAGAAGATGATATTCAGA  
 AATGCCGTGAAAATCCAGATGCTATGAAAATTTGAGAAGTCCAAAACAATCACTGAGCCAGGTCTGCTAGT  
 TTTACTGAGATAACAAAAGACTGTGATGAGAATAAGAAAAACAAAACCTCAGAAAGGCTCTCAGGGAGAGG  
 TTGATTGGCTCCAGCAGTATGACGTAGACCAGGAAAGAGAAGAGCAGGAGCTGCAGCAAGCACTGGCTCA  
 GAGCCTTCAAGAGCAAGAGGCTTGGAAACAGAAGGAAGATGACGACCTCAAAGGGCTACAGAATTAAGT  
 CTTCAAGAGTTTAACTCTTTTCTGGATTCCCTGGGCTCAGATGAGGACTCTGAAAATGAGGATGTTT  
 TTGATATGGAGTACACAGAAGCTGAAGCTGAGGAGCTGAAAAGAAATGCTGAGACAGGAGCTTCTCTCA  
 TTCCTATCGGCTCATCAGTGTGTCAGTCACATTGGGAGCACTTCTCTCAGGTCATTACATTAGTGAT  
 GTGATGACATTAAGAAACAGGCATGGTCACTTACAATGACCTGGAGGTCTCTAAAATCCAAGAGGCTG  
 CCGTGCAGAGTATCGAGATCGCAGCGCTATATCTTCTTATATGCACAAGGAGATCTTTGATGAGTT  
 GCTGGAGACAGAAAAACCTCTCAGGCGCTTAGCATGGAGGTGGGAGAGCTGCCCGTCAGGCTTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226485 protein sequence  
 Red=Cloning site Green=Tags(s)

MSPLKIYGPPIRIRSMQTGITKWKEGSFEIVEKDNRVSLLVHYNTGGIPRVFQLSHNIKNVLRPSGIKQS  
 RLMLTLQDNSFLSIDKVPKDAEEMRLFLDAVHQNRLHAAMKASQGSFGTILGSRTSQKETNRQLSYS  
 DNQASSKRGSLKDEIPFRKVLGSPGRGPIKTVTGGMAVTRTIPSLTLTSTPLRSGLLNRTKRRKM  
 LSGSELTEDYPKENDSSSNKAMTDP SRKYLTSCKEQLSLKQAEENRTSGLLPLQSSSFYGSRAGSKDY  
 SSGVTNLDRCNVSSQTPSAKRSLGFLPQPTPLSVKLLRCNQDYAGWNRPRVPLSSHQQQLQGF SNLGN  
 YMNAILQSLFSLQSFANDLLKQSI PWKIPFALIRRFANLLIKKDICNSETKELLKVKNAISATAER  
 FSGYVQND AHEFLSQCLDQLKEDMEKLNKTKTEPVLGEENLPDTSATKVFTCPVITNLEFEVQHSIICK  
 ACGETIPKREQFNDLSIDLPRKKPLPPRSIQDSLDFFRAELEYSCEKCGGKCALVRHKFNRLPRVLI  
 LHLKRYSFNVALSLNNKLGQQVIIPRFLTLASHCTESTKPPVTLGWSAPVAISRPLRACQMVNSCITSPS  
 APSKFFTFKSKSVTSCLDSDSEDELKRSVLSQRLCDLPGNEQYQEDVEKDLKCRLEPGKAELENSGF  
 DRMSEEEVLA AVEISRREASPVLSPEDDDKPTSSPDTGFAEDDIPEMPENPDAMEIEKSKTITEPGPAS  
 FTEITKDCDENKNTPEGSQGEVDWLQYDVREREEQELQALAQSLQEAEWEQKEDDDLKRATELS  
 LQEFNNSFLDSLGSDEDSGNEVDVMEYTEAEAEELKRNAETGALPHSYRLISVSHIGSTSSSGHYISD  
 VYDIKKQAWFTYNDLEVSKIQA AAVQSDRDRSGYIFFYMHKEIFDELLETEKTSQALSMEVGRAARQAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

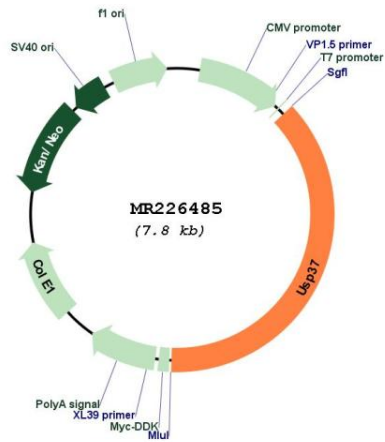


**ACCN:** NM\_176972

**ORF Size:** 2940 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_176972.4</a> , <a href="#">NP_795946.2</a>
<b>RefSeq Size:</b>	7196 bp
<b>RefSeq ORF:</b>	2940 bp
<b>Locus ID:</b>	319651
<b>UniProt ID:</b>	<a href="#">Q8C0R0</a>
<b>Cytogenetics:</b>	1 C3
<b>MW:</b>	110 kDa
<b>Gene Summary:</b>	Deubiquitinase that antagonizes the anaphase-promoting complex (APC/C) during G1/S transition by mediating deubiquitination of cyclin-A (CCNA1 and CCNA2), thereby promoting S phase entry. Specifically mediates deubiquitination of 'Lys-11'-linked polyubiquitin chains, a specific ubiquitin-linkage type mediated by the APC/C complex. Also mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains in vitro. Phosphorylation at Ser-628 during G1/S phase maximizes the deubiquitinase activity, leading to prevent degradation of cyclin-A (CCNA1 and CCNA2). Plays an important role in the regulation of DNA replication by stabilizing the licensing factor CDT1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226485