

## Product datasheet for MR224827

### Usp1l1 (NM\_001115153) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp1l1 (NM_001115153) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp1l1
Synonyms:	E430026A01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224827 representing NM_001115153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGATGATTCTCTGAAGATTGAAATGGTTTGCCACTGGTTGGACCAGGGACTGATGTAGGGATAT  
CTTCACTCCCCATGCTGGGGTACTTGGGAAAAATTATGCTTCAGCTAAAGTCACAACAGACGGGCATTG  
CCCTGCTGTAGAGCGAAAGGCAAGCTAAGTGCCTTAAAACCTTACCGCATTAGCTTCCAAGAATCTGTC  
TTTCTGTGTGAGGATCTTCAGTGCATTTATCCTTTGGGCTCTGAGTCACTTACTAATTTAATTTCTCCTG  
ATTCAGAAGATTGCCCCTCCAAGTAAGCCTCAAAAACGAAAAAGATTGGAAACCAACTGTAGGAATTC  
ACCTCTTCCAGTACATTCTAAAAAGACTAGAAGTCACATTGTCACTGATAGTGAACCAATTTGTAATGGT  
AAATATAATGGAGAAGTGTGTGATGACTTCTCAGCAAGCTTCCCAGATACCAGTGCTCACCAGGATCCTG  
CCAGCACAGCTGCTTCTGTGGAGCAGAGTGAGGCTTTGGAGGCTGATGATGTGGTTGTGGCCGCTACAGA  
AGATCCTGCTACAGTTAGTGTACATCTGAGCTGGAAATGCCAGCTAAGAGCAGATGTTTACCACCTTTC  
CAGACTCTGTGTGCCAGTGGAAAAACCCAGGCCCTGTGCTGGTTAGACTGTATCCTGTCAGCCCTGG  
TGCACTTGGAGGTGTTGAGGAAGACTGTGCTGGAGGCGTCTCCAGGGAGGAGTGTGATTTGGAAGGCT  
GTTTGAATGTACCACCAAGCAGATGAGCTGCTGCACACCCATCACCTGCATGGCGTCACAGGTGAAGAT  
TGTAATAAATTGACATCAGAAATATTTACAGAAATAGATACCTGTTTGAATAAAGTTAGAGATGAAATTT  
TTGCTAAACTTCAACCGAAGCTTAGATGCACATTAGGTGACATGGAAAGTCTGTGTTTGCACCTTCTGT  
ACTGTTAAAGCTTGAACCCCATGTTGAAAGCCTCTTTACATATTCTTTTTCTTGGAAATTTGAATGTTCC  
CATTGTGGACACCAGTACCAAAACAGGTGTGTGAAGAGTCTGGTACCTTTACCAATATTGTTCTGAGT  
GGCATCCACTCAATGCTGCCATTTTGGTCCATGTAACAGCTGCAACAGTAAATCACAAATAAGAAAAAT  
GGTGTGGAAAGAGCGTCGCCATACTCATGCTGCACTTCGTGGAGGGCTTACCAAGGAGGGATTGCAA  
CACTATGCCTTCCACTTTGAAGGAAGCCTTTATCAAGTCACGTCGGTAATACAGTACCAAGCAAATAACC  
ATTTTATAACATGGTTTTAGATGCTGATGGGAGTTGGCTGGAGTGTGATGACCTAAAGGGTCCCTGTGC  
TAAAGGCACGTGACCTGTGAAGTGCCAGCTTCAGAGACACATATCGTTATTTGGAAAGAAAATCCAG



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GTGCCAATTGAAGAAGCTGCCTGCCTTCCATGCATGAAGCCAAATGTGCAGCCTGTATCAGGTGAGGAGC  
 AGCCGACTTGTCCAGCACTGTGTTCTCTGGCTGGGACCGCCACCTCAGAACCCCTCAGTCGCCATCCCAC  
 ATCTATGGCAGGCGCTCCTCAGACTCTTCCAGAAATCCAAGCTGTAGCTCATGGAGATAGTACTTTCA  
 GGAGCAAAGGCATGGTCGACAGCATTTTACCCTCAGCACTTGAAGAAACCATCCAGGAACTGCCTCTG  
 TTTCTCAGGTTGACTCCAAGATTGCCTGTTGGAAGACAAACCCGTGGCAGGAAGTGCAGCACTGGTCAG  
 AGTACTTGCTTTTCAGCCACAGGACTCCCCGGGGTCTTCGGGGTCTTCTTAGTGTCCAGCCTGTGTGAA  
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 TACTGTCCAGGACGGGACACTGTGGTTCCCTAACCCCTGTGACTGATGCCCTGTTCTGTCTTGTTC  
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 CAGTAGCAGCCAGGTGACACAGAATCAGCCTCGGAAAGAAGATCAGAAGAGAGCCTTCGTGGGAAGTTG  
 GGTGAAGGGGCTATTGAGCAGGGGTGGTCTTTTATGCCAACCTGTGTTTGTCTCAGAGTAGAGCAGTA  
 AGTGACCTGCAACCTTCTGTTAAAGGAGCCAGTAATTTTATGATGGCTTTAAAACGAAAAGTATAAGCCGA  
 GGTCTAAAAGAATGTCCAGGAAAGCTAAGCACATGGAGGAAGTCTCCAAGGAACAGCTCTCCACCATT  
 GAGCTGGACAGCTGCTCTGACCCAGGCTGCTGAGAACGCCACCTCAGCTCTGTTGAGGGAGCAGGAAGGC  
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 TGTGGAACACCTGCAAGTGACCACTCAGAGCCTGTATCCCATTTGGATCTCAAATGACTGTGAGTCCA  
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 TCCTGATGCCACCTCAAATAACAGCCAGAGTATGAGGAGATTTAGCAGAGTTGCTGTCGCTACAGCC  
 ATGTCAGAGCCCTCAGAAAGTGGGAGCTTGAGTTGAGTACTTGAAAATGGGGGACAGCACCCACAGCAC  
 AAGCACCTAGTGAATTCAGTGTGCTCCAGAACACATGTCTGAAACAGGACCATGATTACTGACGCC  
 TGAGAAAAGGCCAGCGGGAAGTTGATCTGCATTCAGTCATGGACAGTGCCTGTATAAGAACCTTGAACCTG  
 GGGAGTCCATGAAGACTGATATCTTTGATGATTTTTTTTCCACCTCAGCACTGAATTCTTTAACAAACG  
 ACACATTAGACATACCTCATTTTATGACTCTCTGTTGAGAATTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224827 representing NM\_001115153  
 Red=Cloning site Green=Tags(s)

MTDDSLKIGNLPLVPGTVDVGISSLPMLGYLGKNYASAKVTTDGHCPACRAKGLSALKPYRISFQESV  
 FLCEDLQCIYPLGSESLTNLISPDSEDCPTPSKPKRKRLETNCRNSPLPVHSHKTRSHIVTDSEPIVNG  
 KYNGEVCCDFSASFDPDTSAHQDPASTAASVEQSEALEADDVVVAATEDPATVSVTSELEMPAKSRCLPLC  
 QTL CVQWKNTQALCWLDCILSALVHLEVLKRVLEACSREECVFGRLFEMYHQADELLHTHHLHGVTGED  
 CKKLTSEIFTEIDTCLNKVRDEIFAKLQPKLRCTLDGMESPVFALPVLLKLEPHVESLFTYSFSWNFECS  
 HCGHQYQNRVCSLVTFNIVPEWHPLNAAHFGPCNSCNSKSQIRKMLERASPIILMLHFVEGLPRRDLQ  
 HYAFHFEGSLYQVTSVIQYQANNHFITWFLDADGSWLECDLKGPCAKRHVTCEVPASETHIVIWERKSQ  
 VPIEEAACLPCMKNVQPVSGEEQPTCPALCSLAGTATSEPSVAHPTSMAGAPQTLPEIQAVAHGDSVLS  
 GAKGMVDSILPSALEETIQETASVSQVDSKDCLLEDKPVAGSAALVRVLAQFPQDQSPGSSGSSLVSLCE  
 GKLVAPCVDSFSPQAVSTDLQAVLSQAGDTPVNPVTDAPVPVLAQELKSLATEKDSQTQLPLKTEKL  
 DPEQPGKSQASNLKRETTASSKTVAARSAQNQPRKEDQKRAVFGSWVKGLLSRGGAFMPTCVLSQSRV  
 SDLQPSVKGASNFDGFKTKSISRRSKRMSRKAKHMEELSPRNSSPPLSWTAALTQAAENATSALLREQEG  
 SRPAPLRHRSPGNESAI SPASRGDAEDQVHKLRLKLLKLLKAKKKKLAALISSPHREPSLSDHSEPAH  
 CGTPASDQSEPVSHCGSPNDCEIEDLLKELQHQIDLADSKSGCTSPADATSNNSQSHEEILAEILLSPTA  
 MSEPSESGELELRYLEMGDSTPAQAPSEFSVVSQNTCLKQDHDYCSPEKQREVDLHSVMSACIRTLNL  
 GSPMKTDIFDDFFSTSALNSLTNDTLDIPHFDDSLFENC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001115153

**ORF Size:** 3267 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001115153.1](#), [NP\\_001108625.1](#)

**RefSeq Size:** 3949 bp

**RefSeq ORF:** 3270 bp

**Locus ID:** 231915

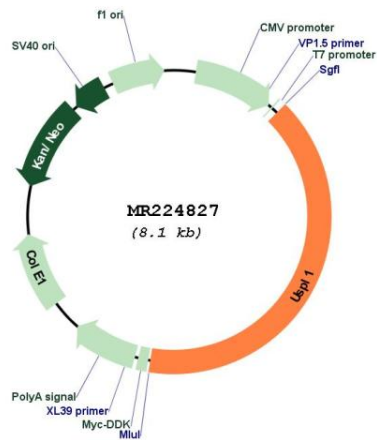
**UniProt ID:** [Q3ULM6](#)

**Cytogenetics:** 5 G3

**MW:** 118.4 kDa

**Gene Summary:** SUMO-specific isopeptidase involved in protein desumoylation. Specifically binds SUMO proteins with a higher affinity for SUMO2 and SUMO3 which it cleaves more efficiently. Also able to process full-length SUMO proteins to their mature forms (By similarity). Plays a key role in RNA polymerase-II-mediated snRNA transcription in the Cajal bodies (By similarity). Is a component of complexes that can bind to U snRNA genes (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224827