

## Product datasheet for **MG224827**

### Uspl1 (NM\_001115153) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uspl1 (NM_001115153) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uspl1
Synonyms:	E430026A01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224827 representing NM_001115153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGATGATTCTCTGAAGATTGAAATGGTTTGCCACTGGTTGGACCAGGGACTGATGTAGGGATAT  
CTTCACTCCCATGCTGGGGTACTTGGGAAAAATTATGCTTCAGCTAAAGTCACAACAGACGGGCATTG  
CCCTGCTGTAGAGCGAAAGGCAAGCTAAGTGCCTTAAAACCTTACCGCATTAGCTTCCAAGAATCTGTC  
TTTCTGTGTGAGGATCTTCAGTGCATTTATCCTTTGGGCTCTGAGTCACTTACTAATTTAATTTCTCCTG  
ATTCAGAAGATTGCCACTCCAAGTAAGCCTCAAAAACGAAAAAGATTGGAAACCAACTGTAGGAATTC  
ACCTCTTCCAGTACATTCTAAAAAGACTAGAAGTCACATTGTCAGTATAGTGAACCAATTGTGAATGGT  
AAATATAATGGAGAAGTGTGTGATGACTTCTCAGCAAGCTTCCCAGATACCAGTGCTCACCAGGATCCTG  
CCAGCACAGCTGCTTCTGTGGAGCAGAGTGAGGCTTTGGAGGCTGATGATGTGGTTGTGGCCGCTACAGA  
AGATCCTGCTACAGTTAGTGTACATCTGAGCTGGAAATGCCAGCTAAGAGCAGATGTTTACCACCTTTCG  
CAGACTCTGTGTCCAGTGGAAAAACCCAGGCCCTGTGCTGGTTAGACTGTATCCTGTCAGCCCTGG  
TGCACTGGAGGTGTTGAGGAAGACTGTGCTGGAGGCGTCTCCAGGGAGGAGTGTGATTTGGAAGGCT  
GTTTGAATGTACCACCAAGCAGATGAGCTGCTGCACACCCATCACCTGTCATGGCGTCACAGGTGAAGT  
TGTAATAAATTGACATCAGAAATATTTACAGAAATAGATACCTGTTTGAATAAAGTTAGAGATGAAATTT  
TTGCTAAACTTCAACCGAAGCTTAGATGCACATTAGGTGACATGGAAAGTCTGTGTTTGCACCTTCTGT  
ACTGTTAAAGCTTGAACCCCATGTTGAAAGCCTCTTTACATATTCTTTTTCTTGGAAATTTGAATGTTCC  
CATTGTGGACACCAGTACCAAAACAGGTGTGTGAAGAGTCTGGTACCTTTACCAATATTGTTCTGAGT  
GGCATCCACTCAATGCTGCCATTTTGGTCCATGTAACAGCTGCAACAGTAAATCACAAATAAGAAAAAT  
GGTGTGGAAAGAGCGTCGCCATACTCATGCTGCACTTCGTGGAGGGCTTACCAAGGAGGGATTGCAA  
CACTATGCCTTCCACTTTGAAGGAAGCCTTATCAAGTCACGTCGGTAATACAGTACCAAGCAAATAACC  
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TAAAGGCACGTGACCTGTGAAGTGCCAGCTTCAGAGACACATATCGTTATTTGGAAAGAAAATCCAG



GTGCCAATTGAAGAAGCTGCCTGCCTTCCATGCATGAAGCCAAATGTGCAGCCTGTATCAGGTGAGGAGC  
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 TTTCTCAGGTTGACTCCAAGATTGCCTGTTGGAAGACAAACCCGTGGCAGGAAGTGCAGCACTGGTCAG  
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 GGAAGACTAGTTGCCCATGTGTGGATTCAAGTTCCCATCCCAAGCTGTGAGCACAGACACTGCAGGCAG  
 TACTGTCCAGGCAGGGGACACTGTGGTTCCCTAACCCCTGTGACTGATGCCCTGTTCTGTTCTTGTTC  
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 GATCCTGAGCAACCTGGTAAATCTCAGGCATCTAATTTGAGAAAACGAGAAACCACAGCGTCTTCTAAAA  
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 ATGTCAGAGCCCTCAGAAAGTGGGGAGCTTGAGTTGAGGTAAGTGGAAATGGGGGACAGCACCCACAGC  
 AAGCACCTAGTGAATTCAGTGTGCTCCAGAACACATGTCTGAAACAGGACCATGATTACTGACGCC  
 TGAGAAAAGGCCAGCGGGAAGTTGATCTGCATTACGTCATGACAGTGCCTGTATAAGAACCCTTGAACCTG  
 GGGAGTCCATGAAGACTGATATCTTTGATGATTTTTTTTCCACCTCAGCACTGAATTTCTTAACAAACG  
 ACACATTAGACATACCTCATTTTGTGACTCTCTGTTTGAAGTTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224827 representing NM\_001115153  
 Red=Cloning site Green=Tags(s)

MTDSDLKIGNLPLVPGTDPVGISSLPMLGYLGKNYASAKVTTDGHCPACRAKGLSALKPYRISFQESV  
 FLCEDLQCIYPLGSESLTNLISPDSEDCPTPSKPQKRKRLTNCRNSPLPVHSHKTRSHIVTDSEPIVNG  
 KYNGEVCCDFASFPDTSAHQDPASTAASVEQSEALEADDVVVAATEDPATVSVTSELEMPAKSRCLPLC  
 QTL CVQWKNTQALCWLDCILSALVHLEVLKRVLEACSREECVFGRLEFMYHQADELLHTHHLHGVTGED  
 CKKLTSEIFTEIDTCLNKVRDEIFAKLQPKLRCTLDGMEPVFALPVLLKLEPHVESLFTYSFSWNFECS  
 HCGHQYQNRVKS LVTFTNIIVPEWHPLNAAHFGPCNSCNSKSIQIRKMLERASPIILMLHFVEGLPRRDLQ  
 HYAFHFEGSLYQVTSVIQYQANNHFIWFLDADGSWLECDLKGPCAKRHVTCEVPAETHIWIWERKSQ  
 VPIEEAACLPCMKNVQPVSGEEQTPALCSLAGTATSEPSVAHPTSMAGAPQTLPEIQAVAHGDSVLS  
 GAKGMVDSILPSALEETIQETASVSQVDSKDCLLEDKPVAGSAALVRVLAFPQDQSPGSSGSSLVSSLCE  
 GKLVAPCVDSFSPQAVSTDLQAVLSQAGDTPVNPVTDAPVPVLVQELKSLATEKDSQTQLPLKTEKL  
 DPEQPGKSQASNLKRETTASSKTVAARSAQNQPRKEDQKRAFGVSWVKGLLSRGGAFMPTCVLSQSRV  
 SDLQPSVKGASNFDGFKTKSISRRSKRMSRKAKHMEELSPRNSPPLSWTAALTQAENATSALLREQEG  
 SRPAPLRHRSPGNESAI SPASRGDAAEDQVHKLRLKLLKLLKAKKKKLAALISSPHREPSLSDHSEPA  
 CGTPASDQSEPVSHCGSPNDCEI EDLLKELQHQIDLADSKSGCT SAPDATSNNSQSHEEILAE LLSPTA  
 MSEPSEGELELRYLEMGDSTPAQAPSEF SVVSQNTCLKQDHDYCSPEKGQREVDLHSMVDSACIRTLNL  
 GSPMKTDIFDFFSTALNSLNTLDIPHFDDSLFENC

TRTRPLE – GFP Tag – V

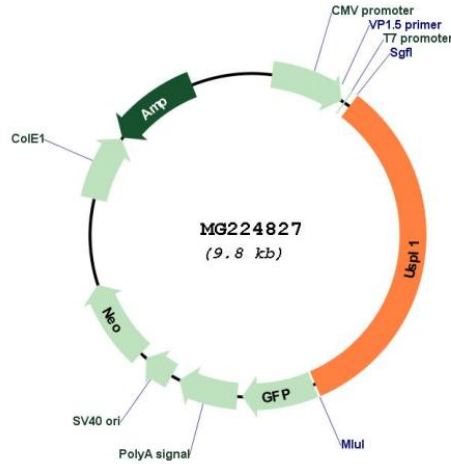
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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.

<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>	<u>NM_001115153.1, NP_001108625.1</u>
<b>RefSeq Size:</b>	3949 bp
<b>RefSeq ORF:</b>	3270 bp
<b>Locus ID:</b>	231915
<b>UniProt ID:</b>	<u>Q3ULM6</u>
<b>Cytogenetics:</b>	5 G3
<b>Gene Summary:</b>	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]