

## Product datasheet for SC127627

### USP33 (NM\_015017) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP33 (NM_015017) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP33
Synonyms:	VDU1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127627 sequence for NM_015017 edited (data generated by NextGen Sequencing)

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ATGACAGGATCAAATTCACACATAACGATATTAACCTTAAAGGTGTACCTCATTGTTGAA
AGTCTTGGGAAACAGGAAAAATTCCTAACAAAATGTCAGCTTTTCGAAATCATTGTCCA
CATTGATTCAGTTGGTGAATAACAAAAGAAGATTTGATACAAAATCCCTTGGTACT
TGTGAGGATTGTAAGTCCAAGGACCAATCTTTGGGCATGTCTGGAGAATAGATGTTCA
TATGTTGGCTGTGGTGAATCACAAAGTAGATCACAGCACCATACATTCTCAGGAGACAAAG
CATTATCTAACTGTGAACCTTACCCTTTCGAGTATGGTGTATGCTTGCAGCAAGAA
GTATTTTGGATAGGAAATTAGGAACTCAGCCTTATTGCCTCATGTAAGACAACCTCAC
CAAATACAAGAAAACAGTGTCCAGGATTTAAAAATACCCAGTAATACAACATTAATACT
CCTCTGGTTGCCGATTTTATGATGATCTGGATATAGAAGCGGATGAAGAAGATGAACCTTAGG
GCMAGAGGCTTACAGGTTTAAAAATATTGAAAATACTTGTACATGAATGCAGCTTTG
CAGGCTCTTTCTAATTGCCACCTTTGACACAGTTTTTTCTTGATGTGGAGGACTAGCT
CGAACAGATAAGAAACCTGCCATTTGTAAGTTATCTCAAATAATGACAGAGCTGTGG
CATAAAAGCAGGCCAGGATCTGTTGTGCCTACTACTCTGTTTCAAGGAATTAATACTGTA
AATCCAACATTTCCGGGGTATTCTCAGCAGGATGCTCAAGAAATCCTTCGATGTTAATG
GATTTGCTTCATGAAGAATTGAAAGAGCAAGTCATGGAAGTAGAAGAAGATCCGCAAAAC
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TGTGAATCTGTAGCAACAGTGATAGAGCAGAAAATGAAAATGGCTCTAGATGCTTTTCT
GAAGATAATAATGAAACAACAATGTTAATTCAGGATGATGAAAACAATTCAGAAATGTCA
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AAAGTGCAAAATACACAGCAGAGCTTCAGAATATATCACTGATGTCCATTGCAATGACCTG
TCTACACCACAGATCCTTCCATCAAATGAAGGTGTTAATCCACGTTTATCGGCAAGCCCT
CCTAAATCAGGCAATTTGTGGCCAGGATTGGCACCACCACAAAAAAGCTCAGTCTGCA
TCTCCAAAGAGAAAAAACAGCACAAGAAATACAGAAGTGTATTTTCAGACATATTTGAT
GGAACAATCATTAGTTTCAGTGCAGTGTCTGACTTGTGACAGGGTGTCTGTAACCCCTCGAG

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ACCTTTCAAGATCTGTCCTTGCCAATTCCTGGCAAGGAAGACCTTGCTAAGCTGCATTCA  
TCAAGTCATCCAACCTTCTATAGTCAAAGCAGGATCATGTGGCGAAGCATATGCTCCACAA  
GGGTGGATAGCTTTTTTCATGGAATATGTGAAGAGGTTTGTGTCTCATGTGTCCCTAGC  
TGGTTTTGGGGTCCAGTAGTAACCTTGCAAGATTGTCTTGTCTGCCTTCTTTGCCAGAGAT  
GAACTAAAAGGTGACAATATGTACAGTTGTGAAAAATGCAAAAAGYTGAGAAATGGAGTG  
AAGTTTTGTAAAGTACAAAACCTTCTGAGATTTTGTGCATCCACCTTAAAAGATTGAGA  
CATGAACATAATGTTTTCCACAAAATCAGTACCCATGTTTCATTCCGCTAGAAGGCTTG  
GATCTTCAGCCATTTCTGCTAAGGATAGTCCAGCTCAAATTGTGACATATGATCTTCTG  
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AAAGAGAGGAGAAGGATATCAAATTTATTGAACATAATGGAACCAAGCCTCCTTCAGTTT  
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AATAATGACTTTCTTTGTATTGATGAGGTTCTCCTCAAGAAAAGCTGGTTATATTGAA  
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TTTGTGAAGGGTAAAGATGGAGATCCTCCAGGTCTATTGACAATACTAAGATTGCGATC  
ACTAAATGTGGTAAATGTGATGCTTAGGCAAGGAGCAGATTCTGGCCAGATTTCTGAAGAA  
ACATGGAATTTCTGCGATCTATTTATGGTGGAGGGCCTGAAGTTATCCTGCGACCTCCG  
GTTGTTTATGTTGATCCAGATATACTTCAAGCAGAAGAAAAAATTGAAGTAGAACTCGG  
TCTTTGTAA

Clone variation with respect to NM\_015017.3  
543 c=>m;1786 t=>y

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_015017 unedited  
TTTTGTATACGACCACTATAGGGCGCCGCGATTCCGGCACGAGGGCCAGTTCAGGAGGCG  
GACCCCCGAGGCGAGCGCTGCGGGCCGTTTTCCGGCCCTCTGACGCGACACTGCCCT  
CTCCGAGAGCTGAGAAGGAAAAGAGGAGCTTGGCGAGGTGCGGCTGCAGGCCGTTGTTGG  
TCGAGCTGGCGGGTCCCAGGGCCAGGCGTGGAGAGCTCCTGAAGGAAGCACTAAACAT  
GGAAAGGAACAACCGGTACCAGCCACTGCAAAAACATGCCAAATTGTAAGACCATCGAT  
GTTAGGAAGAACTGCCTCAACTAATGAGCAAAAATAACCAGCTAACATCGTAATGACAGG  
ATCAAATTCACACATAACGATATTAACCTTAAAGGTGTTACCTCATTTTGAAAGTCTTGG  
GAAACAGGAAAAATTCCTAACAAAATGTCAGCTTTTCGAAATCATTGTCCACATTTGGA  
TTCAGTTGGTGAATAACAAAAGAAGATTTGATACAAAATCCCTTGGTACTTGTGAGGA  
TTGTAAGTCCAAGGACCAAATCTTTGGGCATGTCTGGAGAATAGATGTTTCATATGTTGG  
CTGTGGTGAATCAAGTAGATCACAGCACCATACATTCTCAGGAGACAAAGCATTATCT  
AACTGTGAACCTTACCACTCTTCGAGTATGGTGTATGCTTGCAGCANAGAAGTATTTTT  
GGTAGGAAATTANGAACTCAGCCTTATTGCCTCATGNTAGACAACCTCACAAATACA  
AGAAAACAGTGTCCAGNATTTTTAAATACCCAGTATACAACATTTANAACCTCCTCTGGN  
TGCCGATTTGATGATCTGGATATAGAAGCGGATGAAGAAGATGAACTTAGGNCCAGAG  
TAT

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_015017 unedited TTGACATGGCATGGCACTGTCCAGNCCAGGANAGCACTGGGGNAGGGTCACAGGGATGC CACCCGGGTATCTGTTCCAGGAAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTT TTTTTTTTTTTTTTTACATTTTAAAGACATTTTATTGAGCTAATTTTAAACAACATTGC TTTAGCTGGTGACAGCTGCCCAAACAAAACAAAGCCATCATGAATGCTATTCAACATC CTCAATGTAATCCAGTATGTTTTGTACTTGAATATAGTTAACTTTTGACATTACATA ATCAAGCAAATAGCAGTGCATACTATATTATTCAAAAAGACTTTATCTATTTTCATTTAAA AAATCAAGTTGCAAGTGGCCTCAGCTTTATCAACAATCGTAGTGACACATTCCACACTTC ATGCTCTCAAAATAAAAAGTGCCCTAAAACAACTCTAAGTTTTTTAGTCACTGACATTA ATACTAACAGGTTACAGGAATTGAAGTTTAACTTGTACAATATAAGCGGCAATAAGTT ACTGATATCTGCTGACAAATTCCTCAAACTAAATATATCCTTGATACATTCAAAAAGA CATTTTGTAAATTTAATAAGCTAGTTAGTGTATATGCTGCAGTGCAAAAAAGTGACAC CCTAGTTTCTGAGCTTAGGAAATTAACAATTTCTGACTACTTTTCAACTTAAGAT ACGCTCTTATTATGAAGCCCTGACANAACATACAATTAATGCGCCTTTTGAAG ACTGAAAGACTGGTCAGAGTCAGGGTGATTTAGGCACAATGAAAAGTTTTCCAAAGCAA TGTATTTACACCCCTCAAAGGATACTATGGATCTGCCTGTTGTGAAAAATTAAGATAA CCTCTTGTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015017
<b>Insert Size:</b>	5200 bp
<b>OTI Disclaimer:</b>	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).
<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_015017.3</a> , <a href="#">NP_055832.3</a>
<b>RefSeq Size:</b>	4524 bp
<b>RefSeq ORF:</b>	2829 bp
<b>Locus ID:</b>	23032
<b>UniProt ID:</b>	<a href="#">Q8TEY7</a>
<b>Cytogenetics:</b>	1p31.1
<b>Domains:</b>	UCH, zf-UBP, DUSP
<b>Protein Families:</b>	Druggable Genome, Protease

**Gene Summary:**

This gene encodes a deubiquinating enzyme important in a variety of processes, including Slit-dependent cell migration and beta-2 adrenergic receptor signaling. The protein is negatively regulated through ubiquitination by von Hippel-Lindau tumor protein (VHL). Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jun 2012]

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