

## Product datasheet for **RC227343**

### SQSTM1 (NM\_001142299) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SQSTM1 (NM_001142299) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SQSTM1
Synonyms:	A170; DMRV; FTDALS3; NADGP; OSIL; p60; p62; p62B; PDB3; ZIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC227343 representing NM\_001142299  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCGCTACCGTGAAGGCCTACCTTCTGGCAAGGAGACGCGGCGCGAGATTCGCCCTTCA  
 GCTTCTGCTGCAGCCCCGAGCCTGAGGCGGAAGCCGAGGCTGCGGCGGGTCCGGGACCCTGCGAGCGGCT  
 GCTGAGCCGGGTGGCCGCCCTGTCCCCGCGCTGCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAG  
 GACGGGGACTTGGTTGCCTTTCCAGTGACGAGGAATTGACAATGGCCATGTCCTACGTGAAGGATGACA  
 TCTTCCGAATCTACATTAAGAGAAAAAGAGTGCCGCGGGACCACCGCCACCGTGTGCTCAGGAGGC  
 GCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGGGCCTGTGGTAGGAACCCGCTAC  
 AAGTGCAGCGTCTGCCAGACTACGACTGTGTAGCGTCTGCGAGGAAAGGGCTTGACCGGGGGCACA  
 CCAAGCTCGATTCCCCAGCCCCTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCGCTGGCTCCGGAA  
 GGTGAAACACGGACACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAACTGGAGCCACGTCCT  
 CCTCGTGCAGGGGAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAGTG  
 TGAATTTCTGAAGAACGTTGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATAT  
 CGATGTGGAGCACGGAGGAAAAGAAGCCGCTGACCCCGTCTCTCCAGAGAGTTCCAGCACAGAGGAG  
 AAGAGCAGCTCACAGCCAAGCAGCTGCTGCTCTGATCCCAGCAAGCCGGTGGGAATGTTGAGGGGCCCA  
 CGCAGTCTCTGGCGGAGCAGATGAGAAAGATCGCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGA  
 GTCGGATAACTGTTCCAGGAGGAGATGATGACTGGACCCATCTGTCTTCAAAGAAGTGGACCCGCTACA  
 GGTGAAGTCCAGTCCCTACAGATGCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCAGGAGGGAC  
 CCACAGGGCTGAAGGAAGCTGCCTTGTACCCACATCTCCCGCCAGAGGCTGACCCGCGGCTGATTGAGTC  
 CCTCTCCAGATGCTGTCCATGGGCTTCTCTGATGAAGGCGGCTGGCTCACCAAGGCTCCTGCAGACCAAG  
 AACTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATCCCCGCGCTTG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227343 representing NM\_001142299  
 Red=Cloning site Green=Tags(s)

MASLTVKAYLLGKEDAAREIRRFSCSPEPEAEAEAAAGPGPCERLLSRVAALFPALRPGGFQAHYRDE  
 DGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRRDHRPPCAQEAPRNMVHPNVIDGCGNPGVVGTRY  
 KCSVCPDYDLCSVCEGKGLHRGHTKLAFSPFGHLSEGFSHSRWLKVKHGHFGWPGWEMGPPGNWSPRP  
 PRAGEARPGPTAESASGSPEDPSVNFKNVGESVAAAALSPLGIEVDIDVEHGGKRSRLTPVSPSSSTEE  
 KSSSQPSSCCSDPSKPGNVEGATQSLAEQMRKIALESEGRPEEQMESDNCSSGDDDDWHLSSKEVDPST  
 GELQSLQMPSEGPSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSEGGWLRLLQTK  
 NYDIGAALDTIQYSKHPPPL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1750\\_e03.zip](https://cdn.origene.com/chromatograms/ja1750_e03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001142299

**ORF Size:** 1320 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\\_001142299.1](#), [NP\\_001135771.1](#)

**RefSeq Size:** 2848 bp

**RefSeq ORF:** 1071 bp

**Locus ID:** 8878

**UniProt ID:** [Q13501](#)

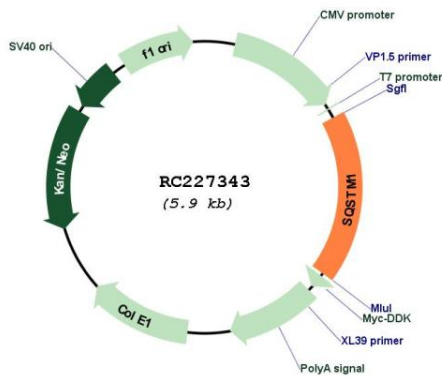
**Cytogenetics:** 5q35.3

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 47.7 kDa

**Gene Summary:** This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF- $\kappa$ B) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF- $\kappa$ B in response to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms have been identified for this gene. Mutations in this gene result in sporadic and familial Paget disease of bone. [provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RC227343