

## Product datasheet for **SC324988**

### SQSTM1 (NM\_001142298) Human Untagged Clone

#### Product data:

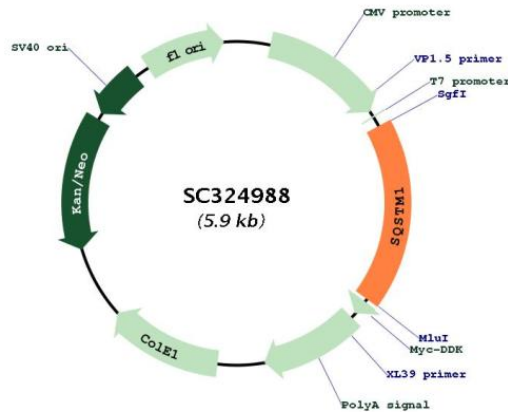
Product Type:	Expression Plasmids
Product Name:	SQSTM1 (NM_001142298) Human Untagged Clone
Tag:	Tag Free
Symbol:	SQSTM1
Synonyms:	A170; DMRV; FTDALS3; NADGP; OSIL; p60; p62; p62B; PDB3; ZIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324988 representing NM_001142298. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCATGTCCTACGTGAAGGATGACATCTTCCGAATCTACATTAAGAGAAAAAGAGTGCCGGCGG
GACCACCGCCACCGTGTGCTCAGGAGGCGCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGC
TGCAATGGGCCTGTGGTAGGAACCCGCTACAAGTGCAGCGTCTGCCAGACTACGACTTGTGTAGCGTC
TGCGAGGGAAAGGGCTTGACCCGGGGCACACCAAGCTCGCATTCCAGCCCTTCGGGCACCTGTCT
GAGGGCTTCTCGCACAGCCGCTGGCTCCGGAAGGTGAAACACGGACTTCGGGTGGCCAGGATGGGAA
ATGGGTCCACCAGGAACTGGAGCCACGTCCTCCTCGTGCAGGGGAGGCCCGCCCTGGCCCCACGGCA
GAATCAGCTTCTGGTCCATCGGAGGATCCGAGTGTGAATTTCTGAAGAAGTTGGGGAGAGTGTGGCA
GCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATATCGATGTGGAGCACGGAGGAAAAGAAGCCGCTG
ACCCCGTCTCTCCAGAGAGTTCAGCACAGAGGAGAAGAGCAGCTCACAGCCAAGCAGCTGCTGTCT
GACCCAGCAAGCCGGTGGGAATGTTGAGGGCGCCACGAGTCTTGGCGGAGCAGATGAGGAAGATC
GCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGAGTCGGATAACTGTTCCAGGAGGAGATGATGAC
TGGACCATCTGTCTTCAAAGAAGTGGACCCGCTACAGGTGAAGTCCAGTCCCTACAGATGCCAGAA
TCCGAAGGGCAAAGCTCTCTGGACCCCTCCAGGAGGGACCCACAGGGCTGAAGGAAGCTGCCTTGTAC
CCACATCTCCCGCAGAGGCTGACCCGGGCTGATTGAGTCCCTCTCCAGATGCTGTCCATGGGCTTC
TCTGATGAAGGGCGCTGGCTCACCAGGCTCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGAC
ACCATCCAGTATTCAAAGCATCCCCGCGTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001142298

**Insert Size:** 1071 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001142298.1](#)

**RefSeq Size:** 2931 bp

**RefSeq ORF:** 1071 bp

**Locus ID:** 8878

UniProt ID: [Q13501](#)

Cytogenetics: 5q35.3

Protein Families: Druggable Genome, Transcription Factors

MW: 38.6 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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation from an in-frame downstream start codon compared to variant 1. This results in an isoform (2) with a shorter N-terminus compared to isoform 1. Variants 2 and 3 encode the same isoform.