

## Product datasheet for **RG227343**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SQSTM1 (NM_001142299) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SQSTM1
Synonyms:	A170; DMRV; FTDALS3; NADGP; OSIL; p60; p62; p62B; PDB3; ZIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227343 representing NM_001142299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCGCTCACCGTGAAGGCCTACCTTCTGGGCAAGGAGGACGCGGCGCGGAGATTCGCCGCTTCA  
GCTTCTGCTGCAGCCCCGAGCCTGAGGCGGAAGCCGAGGCTGCGGCGGGTCCGGGACCCTGCGAGCGGCT  
GCTGAGCCGGGTGGCCGCCCTGTCCCCGCGTGGCCCTGGCGGCTCCAGGCGCACTACCGCGATGAG  
GACGGGGACTTGGTTGCCTTTCCAGTGACGAGGAATTGACAATGGCCATGTCCTACGTGAAGGATGACA  
TCTTCCGAATCTACATTAAGAGAAAAAGAGTGCCGGCGGGACCACCGCCACCGTGTGCTCAGGAGGC  
GCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGGGCCTGTGGTAGGAACCCGCTAC  
AAGTGCAGCGTCTGCCAGACTACGACTTGTGTAGCGTCTGCGAGGAAAAGGGCTTGACCCGGGGCACA  
CCAAGCTCGCATTCCCCAGCCCCCTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCGCTGGCTCCGGAA  
GGTGAAACACGGACACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAAACTGGAGCCACGTCTCT  
CCTCGTGCAGGGGAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAGTG  
TGAATTTCTGAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATAT  
CGATGTGGAGCACGGAGGAAAAGAAGCCGCTGACCCCCGTCTCTCCAGAGAGTCCAGCACAGAGGAG  
AAGAGCAGCTCACAGCCAAGCAGCTGCTGCTGATCCCAGCAAGCCGGTGGAAATGTTGAGGGCCGCA  
CGCAGTCTTGGCGGAGCAGATGAGAAAGATCGCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGA  
GTCGGATAAAGTTCAGGAGGAGATGATGACTGGACCCATCTGTCTTCAAAGAAGTGGACCCGCTTACA  
GGTGAAGTCCAGTCCCTACAGATGCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCTCCAGGAGGGAC  
CCACAGGGCTGAAGGAAGCTGCCTTGTACCCACATCTCCCGCCAGAGGCTGACCCGCGGCTGATTGAGTC  
CCTCTCCAGATGCTGTCCATGGCTTCTCTGATGAAGGCGGCTGGCTACCAGGCTCCTGCAGACCAAG  
AACTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATCCCCCGCGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227343 representing NM\_001142299  
 Red=Cloning site Green=Tags(s)

MASLTVKAYLLGKEDAAREIRRFSCSPEPEAEAEAAAGPGPCERLLSRVAALFPALRPGGFQAHYRDE  
 DGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRRDHRPPCAQEAPRNMVHPNVICDGCNGPVVGTRY  
 KCSVCPDYDLCSVCEGKGLHRGHTKLAFSPFGHLSEGFSHSRWLKVKHGHFGWPGWEMGPPGNWSPRP  
 PRAGEARPGPTAESASGPPSEDPVNFLLKNVGESVAAAL SPLGIEVDIDVEHGGKRSRLTPVSPESSSTEE  
 KSSSQPSSCCSDPSKPGNVEGATQSLAEQMRKIALESEGRPEEQMESDNCSSGGDDWTHLSSKEVDPST  
 GELQSLQMPSESGPSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSDEGGWLTRLLQTK  
 NYDIGAALDTIQYSKHPPPL

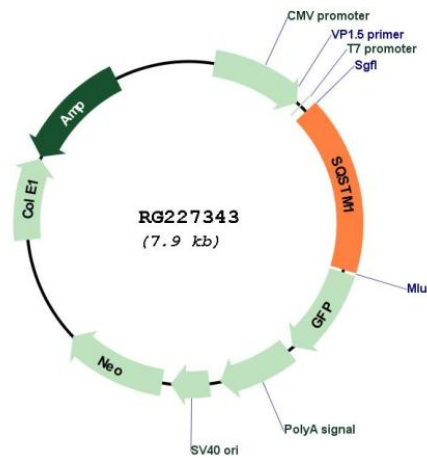
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001142299

<b>ORF Size:</b>	1068 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001142299.1</a> , <a href="#">NP_001135771.1</a>
<b>RefSeq Size:</b>	2848 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	8878
<b>UniProt ID:</b>	<a href="#">Q13501</a>
<b>Cytogenetics:</b>	5q35.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF-kB) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF-kB 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]