

Product datasheet for **MG226105**

Sqstm1 (NM_011018) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sqstm1 (NM_011018) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sqstm1
Synonyms:	A170; OSF-6; Osi; p62; STAP; STONE14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226105 representing NM_011018 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGTTACGGTGAAGGCCTATCTTCTGGCAAGGAGGAGGCGACCCGCGAGATCCGCCGTTCA
GCTTCTGCTTCAGCCCGGAGCCGGAGGCCGAAGCCCAAGCCGCGCCGGCCGGGGCCCTGCGAGAGGCT
GCTGAGCCGAGTGGCTGTGCTGTCCCCACGCTGAGGCCCTGGCGGCTTCCAGGCCACTACCGGATGAG
GATGGGGACTTGGTTGCCTTTCCAGTGATGAGGAGCTGACAATGGCTATGTCCTATGTGAAAGATGACA
TCTTCCGCATCTACATTAAGAGAAGAAGGAGTGCCGGCGGAACATCGCCACCATGTGCTCAGGAGGC
ACCCGAAACATGGTGCACCCCAATGTGATCTGTGATGGTTGCAACGGGCTGTGGTGGAACTCGCTAT
AAGTGCAGTGTGTGCCAGACTACGACCTGTGCAGCGTGTGCGAGGGGAAGGGCTGCACAGGGAACACA
GCAAGCTCATCTTTCCCAACCCCTTTGGCCACCTCTGTAGCTTCTCTCATAGCCGCTGGCTTCGGAA
GCTGAAACATGGACACTTTGGCTGGCCTGGCTGGGAGATGGGCCACCGGGGAAGTGGAGCCACGTCTCT
CCTCGTGCAGGGGATGGCCGCCCTTGGCCACAGCTGAGTGCAGCTTCTGCTCCACCAGAAGATCCCAATG
TCAATTTCTGAAGAATGTGGGGGAGAGTGTGGCAGTGCCCTCAGCCCTTAGGCATTGAGGTTGACAT
TGATGTGGAACATGGAGGAAGAGAAGCCGCTGACACCCACTACCCAGAAAGTCCAGCACAGGCACA
GAAGACAAGAGTAACACTCAGCCAAGCAGCTGCTTTCGGAAGTCAGCAAACCTGACGGGGCTGGGGAGG
GCCTGCTCAGTCTCTGACAGAGCAAATGAAAAAGATAGCCTTGGAGTCGGTGGGACAGCCAGGGAACA
GATGGAGTCGGGAACTGCTCAGGAGGAGACGATGACTGGACACATTTGTCTTCAAAGAAGTGGACCCA
TCTACAGGTGAAGTCCAGTCTCTACAGATGCCAGAATCGGAAGGGCCAAGCTCTTAGACCCCTCACAGG
AAGGACCCACAGGGCTGAAGGAAGCTGCCCTATACCCACATCTCCACCAGAGGCTGATCCCGGCTGAT
TGAGTCCCTCTCCAGATGCTGTCCATGGGTTTCTCGGATGAAGGCGGCTGGCTCACCAGGCTCTACAG
ACCAAGAATTACGACATCGGGGCTGCTCTGGACACGATCCAGTATTCGAAGCACCCCTCCACCATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226105 representing NM_011018
 Red=Cloning site Green=Tags(s)

MASFTVKAYLLGKEEATREIRRFSCFCSPEPEAEAQAAAGGPCERLLSRVAVLFPTLRPGGFQAHYRDE
 DGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRREHRPPCAQEAPRNMVHPNVICDGCNGPVVTRY
 KCSVCPDYDLCSVCEGKGLHREHSLKIFPNPFGHLSDSFSHSRWLRKCLKHGHWPGWEMGPPGNWSPRP
 PRAGDGRPCPTAESASAPPEDPNVNFLLKNVGESVAAAL SPLGIEVDIDVEHGGKRSRLTPPTPESSTGT
 EDKSNTPSSCSSEVSKPDGAGEGPAQSLTEQMKKIALESVQPEEQMESGNCSSGDDDDWTHLSSKEVDP
 STGELQSLQMPSEGGPSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSDEGGWLRLLQ
 TKNYDIGAALDTIQYSKHPPPL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_011018

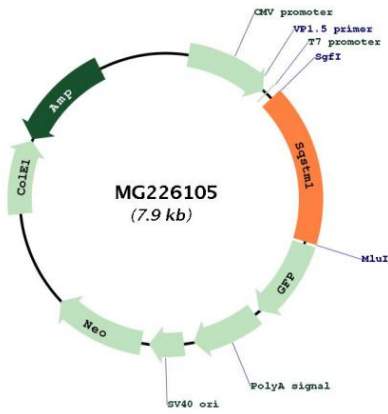
ORF Size: 1326 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_011018.3
RefSeq Size:	2000 bp
RefSeq ORF:	1329 bp
Locus ID:	18412
UniProt ID:	Q64337
Cytogenetics:	11 B1.3
Gene Summary:	Autophagy receptor required for selective macroautophagy (aggrephagy). Functions as a bridge between polyubiquitinated cargo and autophagosomes. Interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family. Required both for the formation and autophagic degradation of polyubiquitin-containing bodies, called ALIS (aggresome-like induced structures) and links ALIS to the autophagic machinery. Involved in midbody ring degradation (By similarity). May regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a role in titin/TTN downstream signaling in muscle cells. May regulate signaling cascades through ubiquitination. Adapter that mediates the interaction between TRAF6 and CYLD (PubMed:14960283, PubMed:18382763). May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels. Involved in endosome organization by retaining vesicles in the perinuclear cloud: following ubiquitination by RNF26, attracts specific vesicle-associated adapters, forming a molecular bridge that restrains cognate vesicles in the perinuclear region and organizes the endosomal pathway for efficient cargo transport (By similarity). Promotes relocalization of 'Lys-63'-linked ubiquitinated TMEM173/STING to autophagosomes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226105