

Product datasheet for **MR226105**

Sqstm1 (NM_011018) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sqstm1 (NM_011018) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sqstm1
Synonyms:	A170; OSF-6; Osi; p62; STAP; STONE14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226105 representing NM_011018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGTCGTTACGGTGAAGGCCTATCTTCTGGCAAGGAGGAGCGACCCGCGAGATCCGCCGCTTCA
 GCTTCTGCTTCAGCCCGAGCCGAGGCCGAAGCCCAAGCCGCGCCGGCCCGGGCCCTGCGAGAGGCT
 GCTGAGCCGAGTGGCTGTGCTGTTCACGCTGAGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAG
 GATGGGGACTTGGTTGCCTTTCCAGTGTGAGGAGCTGACAATGGCTATGTCCTATGTAAAGATGACA
 TCTTCCGCATCTACATTAAGAGAAGAAGGAGTCCCGCGGGAACATCGCCACCATGTGCTCAGGAGGC
 ACCCCGAAACATGGTGCACCCCAATGTGATCTGTGATGGTTGCAACGGGCCTGTGGTGGAACTCGCTAT
 AAGTGCAGTGTGCCCAGACTACGACCTGTGCAGCGTGTGCGAGGGGAAGGGCTGCACAGGGAACACA
 GCAAGCTCATCTTCCCAACCCCTTTGGCCACCTCTGTATAGCTTCTCTCATAGCCGCTGGCTTCGGAA
 GCTGAAACATGGACACTTTGGCTGGCCTGGCTGGGAGATGGGCCACCGGGAACGGAGCCACGCTCT
 CCTCGTGCAGGGATGGCCGCCCTTGCCCTACAGCTGAGTCAGCTTCTGCTCCACCAGAAGATCCCAATG
 TCAATTTCTGAAGAATGTGGGGGAGAGTGTGGCAGCTGCCCTCAGCCCTTAGGCATTGAGGTTGACAT
 TGATGTGGAACATGGAGGGAAGAGAAGCCGCTGACACCCACTACCCAGAAAAGTTCCAGCACAGGCACA
 GAAGACAAGAGTAACACTCAGCCAAGCAGCTGCTCTTCGGAAGTCAGCAAACCTGACGGGGCTGGGGAGG
 GCCCTGCTCAGTCTTGACAGAGCAAATGAAAAAGATAGCCTTGGAGTCGGTGGGACAGCCAGAGGAACA
 GATGGAGTCGGGAACTGCTCAGGAGGAGCAGTACTGGACACATTTGTCTTCAAAGAAGTGGACCCA
 TCTACAGGTGAATCCAGTCTCTACAGATGCCAGAATCGGAAGGGCAAGCTCTTAGACCCCTCACAGG
 AAGGACCCACAGGGCTGAAGGAAGCTGCCCTATACCCACATCTCCACCAGAGGCTGATCCCGGCTGAT
 TGAGTCCCTCTCCAGATGCTGTCCATGGGTTTCTCGGATGAAGGCGGCTGGCTCACCAGGCTCCTACAG
 ACCAAGAATTACGACATCGGGGCTGCTCTGGACACGATCCAGTATTCTGAAGCACCCCTCCACCATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226105 representing NM_011018
 Red=Cloning site Green=Tags(s)

MASFTVKAYLLGKEEATREIRRFSCFSPPEAEQAAGPGPCERLLSRVAVLFPTLRPGGFQAHYRDE
 DGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRREHRPPCAQEAPRNMVHPNVIDGDCNGPVVGT
 RYKCSVCPDYDLCSVCEGKGLHREHSKLIFPNPFGLSDSFSHSRWLRKLRKHGHWPGWEMGPPGNWSPR
 PRAGDGRPCPTAESASAPPEDPNVNFKNVGESVAAALSPGIEVDIDVEHGGKRSRLTPTTPESSTGT
 EDKSNTPSSCSSEVSKPDGAGEGPAQSLTEQMKKIALESVQPEEQMESGNCSGGDDWTHLSSKEVDP
 STGELQSLQMPSEGPSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSDGEGWLRLLQ
 TKNYDIGAALDTIQYSKHPPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2816_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_011018

ORF Size: 1329 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).

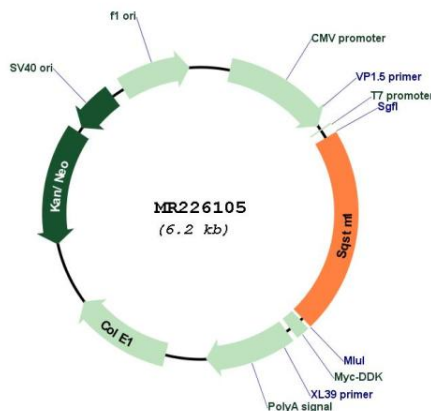
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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: 2030 bp
 RefSeq ORF: 1329 bp
 Locus ID: 18412
 UniProt ID: [Q64337](#)
 Cytogenetics: 11 B1.3
 MW: 48.2 kDa

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 MR226105