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Product datasheet for MR206359

Sqstm1 (BC006019) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sqstm1 (BC006019) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sqstm1
Synonyms:	A170, STAP, OSF-6, p62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206359 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCGTTCACGGTGAAGGCCTATCTTCTGGGCAAGGAGGAGGCGACCCGCGAGATCCGCCGCTTCA
GCTTCTGCTTCAGCCCGGAGCCGGAGGCGGAAGCCCAAGCCGCGGCCGGCCCGGGGCCCTGCGAGAGGCT
GCTGAGCCGAGTGGCTGTGCTGTTCCCCACGCTGAGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAG
GATGGGGACTTGGTTGCCTTTTCCAGTGATGAGGAGCTGACAATGGCTATGTCCTATGTGAAAGATGACA
TCTTCCGCATCTACATTAAAGAGAAGAAGGAGTGCCGGCGGGAACATCGCCCACCATGTGCTCAGGAGGC
ACCCCGAAACATGGTGCACCCCAATGTGATCTGTGATGGTTGCAACGGGCCTGTGGTGGGAACTCGCTAT
AAGTGCAGTGTGTGCCCAGACTACGACCTGTGCAGCGTGTGCGAGGGGAAGGGCCTGCACAGGGAACACA
GCAAGCTCATCTTTCCCAACCCCTTTGGCCACCTCTCTGATAGCTTCTCTCATAGCCGCTGGCTTCGGAA
GCTGAAACATGGACACTTTGGCTGGCCTGGCTGGGAGATGGGCCCACCGGGGAACTGGAGCCCACGTCCT
CCTCGTGCAGGGGATGGCCGCCCTTGCCCTACAGCTGAGTCAGCTTCTGCTCCACCAGAAGATCCCAATG
TCAATTTCCTGAAGAATGTGGGGGAGAGTGTGGCAGCTGCCCTCAGCCCTCTAGGCATTGAGGTTGACAT
TGATGTGGAACATGGAGGGAAGAGAAGCCGCCTGACACCCACTACCCCAGAAAGTTCCAGCACAGGCACA
GAAGACAAGAGTAACACTCAGCCAAGCAGCTGCTCTTCGGAAGTCAGCAAACCTGACGGGGCTGGGGAGG
GCCCTGCTCAGTCTCTGACAGAGCAAATGAAAAAGATAGCCTTGGAGTCGGTGGGACAGCCAGAGGAACA
GATGGAGTCGGGAAACTGCTCAGGAGGAGACGATGACTGGACACATTTGTCTTCAAAAGAAGTGGACCCA
TCTACAGAGGCTGATCCCCGGCTGATTGAGTCCCTCTCCCAGATGCTGTCCATGGGTTTCTCGGATGAAG
GCGGCTGGCTCACCAGGCTCCTACAGACCAAGAATTACGACATCGGGGCTGCTCTGGACACGATCCAGTA
TTCGAAGCACCCTCCACCATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

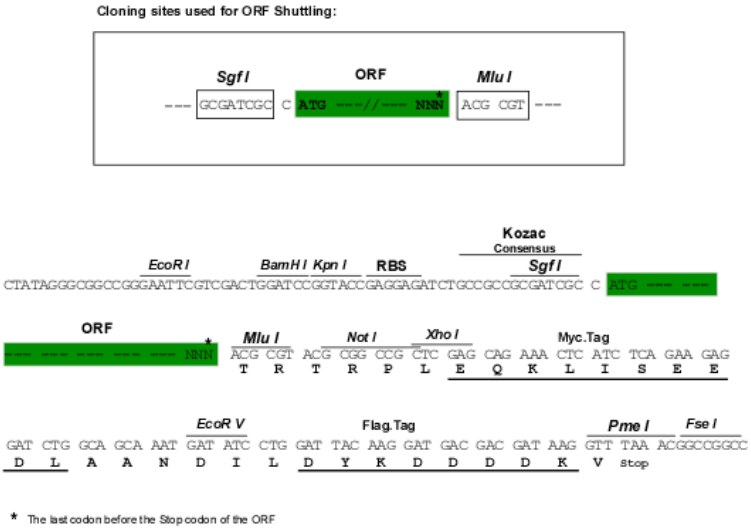
>MR206359 protein sequence
Red=Cloning site Green=Tags(s)

MASFTVKAYLLGKEEATREIRRFSFCFSPEPEAEAQAAAGPGPCERLLSRVAVLFPTLRPGGFQAHYRDE
DGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRREHRPPCAQEAPRNMVHPNVICDGCNGPVVGTRY
KCSVCPDYDLCSVCEGKGLHREHSKLIFPNPFGHLSDSFSHSRWLRKLKHGHFGWPGWEMGPPGNWSPRP
PRAGDGRPCPTAESASAPPEDPNVNFLKNVGESVAAALSPLGIEVDIDVEHGGKRSRLTPTTPESSSTGT
EDKSNTQPSSCSSEVSKPDGAGEGPAQSLTEQMKKIALESVGQPEEQMESGNCSGGDDDWTHLSSKEVDP
STEADPRLIESLSQMLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC006019

ORF Size: 1212 bp

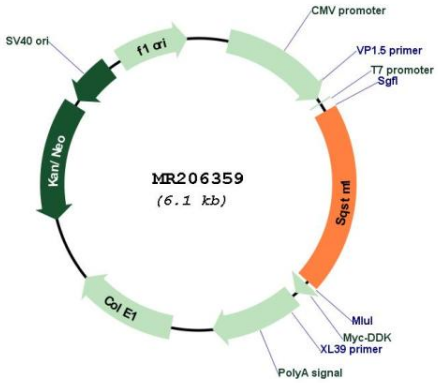
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	BC006019, AAH06019
RefSeq Size:	2013 bp
RefSeq ORF:	1214 bp
Locus ID:	18412
Cytogenetics:	11 B1.3
MW:	44.2 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 MR206359