

Product datasheet for **RR200238**

Sqstm1 (NM_181550) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sqstm1 (NM_181550) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sqstm1
Synonyms: Osi; ZIP; ZIP3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >NM_181550 ORF sequence, RR200238 may differ due to SNPs.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTTCGCTCACGGTGAAGGCCTATCTACTGGGCAAGGAGGAGGCGGCCCGGAGATCCGCCGCTTC
AGCTTCTGCTTCAGCCCGGAGCCGGAGGCGGAAGCCGCGCTGGCCCGGGCCCTCGAGAGGCTGCTG
AGCCGGGTGGCTGTGCTGTTCCCGCGCTGCGGCTGGAGGCTTCAGGGCCTACCGCGATGAGGAT
GGGACTTGGTCGCTTCTCCAGTGATGAGGAAGTACAATGGCCATGTCCTATGTGAAAGATGACATC
TTCCGCATCTACATTAAGAGAAGAAGGAGTGCCGGCGGGAACATCGCCCCCATGTGCTCAGGAGGCA
CGAAGCATGGTGCACCCAACGTGATTTGTGATGGTTGCAATGGGCTGTGGTGGGAAGTGCCTATAAG
TGCAGTGTGTGCCCGACTACGACCTGTGCAGCGTCTGCGAGGGGAAGGGCTGCACAGGGAGCACAGC
AAGCTCATCTTTCCCAACCCCTTTGGCCACCTCTCTGATAGCTTCTCTCATAGCCGCTGGCTTGGGAAG
CTGAAACATGGGCACTTTGGCTGGCCTGGCTGGGAGATGGGCCACCAGGGAAGTGGAGCCACGTCCT
CCTCGCGCAGGGGATGGTCGCCCTTGCCCCACAGCTGAGTCGGGTAAAGCTGGTGTTCGACTGGCTT
AGGTGTCATAAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Protein Sequence: >Peptide sequence encoded by RR200238
Blue=ORF Red=Cloning site Green=Tag(s)

```
MASLTVKAYLLGKEEAAREIRRFSCFCSPEPEAEAAAGPGPCERLLSRVAVLFPALRPGGFQAHYRDED
GDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRREHRPPCAQEARSMVHPNVIDGCGNPGVVGTRYK
CSVCPDYDLCSVCEGKGLHREHSLIFPNPFGHLSDFS SHSRWLRKLRKHGHWGPGWEMGPPGNWSPRP
PRAGDGRPCPTAESGKAGVCTGFRCHK
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites: SgfI-MluI

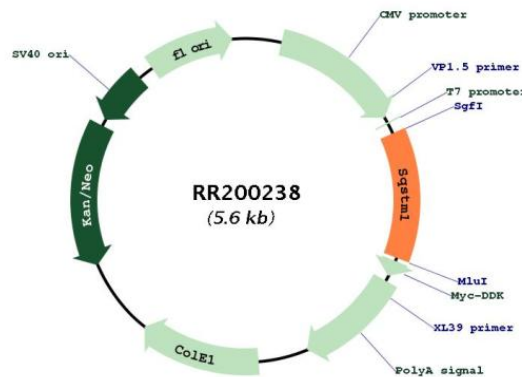


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Cloning Scheme:



Plasmid Map:



ACCN: NM_181550

ORF Size: 702 bp

OTI Disclaimer: 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_181550.2](#)

RefSeq Size: 892 bp

RefSeq ORF: 705 bp

Locus ID: 113894

UniProt ID: [O08623](#)

Cytogenetics: 10q22

MW: 26.1 kDa

Gene Summary: interacts with PKC-zeta and GABA(C) receptors to form ternary postsynaptic complex in the retina [RGD, Feb 2006]