

Product datasheet for **RR205062**

Syt7 (NM_021659) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syt7 (NM_021659) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Syt7
Synonyms: SytVII
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205062 representing NM_021659
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTACCGGGACCCGGAGGGCGCCAGCCAGGGGCACCCACCCGCGATGTCTGCTGGTCTCTGCAATCA
TCACCGTCAGCCTTAGCGTCACTATCGTCTCTCGGCCCTGTGCCACTGGTGTGACGCGAACTGGGCAA
ACGCTACAAGAACTCCTTGGAGACGGTGGGCACGCCAGACTCGGGCGTGGGCGCGGTGAGAAGAAAGCC
ATCAAGTTGCCTGCAGGAGGGAAGGCTGTGAATACAGCCCAAGTCCCGGCCAGACGCCACATGATGAGT
CTGACCGCAGAACGGAGCCCCGTTCTCTGTCTCGGACCTCGTCAACTCCCTTACCAGCGAGATGCTCAT
GCTCTCCCGAGGCTCCGAGGAGGATGAGGCCATGAGGGCTGCAGCCGAGAGAACCTGGGCCGAATCCAG
TTCAGTGTGGCTACAACCTCCAGGAGTCCACACTCACCGTAAAAGTCAATGAAGGCCAGGAGCTGCCGG
CCAAGGACTTCAGTGGCACTAGTGACCCCTTTGTCAAGATCTACCTACTACCCGACAAGAAGCACAACT
GGAGACCAAGGTGAAACGGAAGAATCTAAACCCGCACTGGAACGAGACCTTTCTATTTGAAGGGTTTCCC
TATGAGAAAGTGGTACAGAGGATCCTCTACCTCCAGTCTGGATTATGACCGTTTCAGCCGCAATGACC
CCATTGGGGAGGTGCCATCCCTCTCAACAAGGTGGACCTGACCCAGATGCAGACCTTCTGGAAGGATCT
GAAGCCATGCAGCGATGGGAGTGGGAGCCGAGGGAGCTGCTTGTCTCTGCTACAACCCCTCTGCC
AACTCCATCATCGTGAACATCATCAAAGCTCGCAACCTCAAAGCCATGGACATCGGGGGCACATCAGACC
CCTATGTGAAGGTGTGGCTGATGTATAAAGACAAGCGGGTAGAGAAAAAGAACGGTGACAAAGAAGAG
GAACCTGAATCCCATCTTCAATGAGTCTTTGCGCTTTGACATACCCACGAGAAGCTGAGGGAGACCACC
ATCATCATCACTGTGATGACAAAGACAAGCTCAGCCGCAATGACGTATTGGCAAGATCTACCTGTCTCT
GGAAGAGCGGACCAGGCGAGGTGAAGCACTGGAAGACATGATCGCTCGTCCCGGCAGCCTGTGGCCCA
GTGGCACCAGCTGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MYRDPEAASPGAPTRDVLVSAIITVSLSVTIVLCGLCHWCQRKLGKRYKNSLETVGTTPDSGRGRGEKKA
 IKLPAGGKAVNTAPVPGQTPHDESDRRTEPRSSVSDLVNSLTSEMLMLSPGSEEDAHEGCSRENLGRIQ
 FSVGYNFQESTLTVKVMKAQELPAKDFSGTSDPFVKIYLLPDKKHKLETKVKRKNLNPHWNETFLFEGFP
 YEKVVQRILYLQVLDYDRFSRNDPIGEVSIPLNKVDLTQMOTFWKDLKPCSDGSGSRGELLLSLCYNPSA
 NSIIVNIIKARNLKAMDIGGTSDPYVKVWLMYKDKRVEKKKTVTKRNLNPIFNESFAFDIPTEKLRRETT
 IITVMDKDKLSRNDVIGKIYLSWKS GPGEVKHWKDMIARPRQPAQWHQLKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

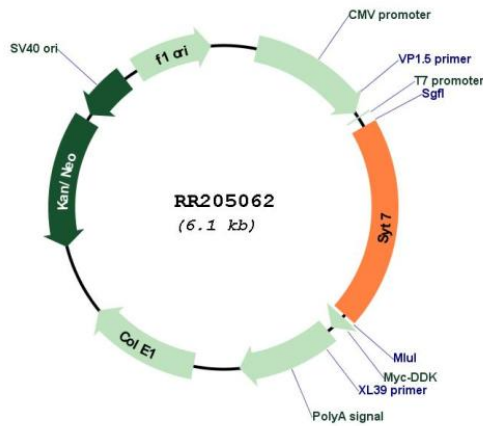
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_021659

ORF Size:	1209 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:	<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_021659.1 , NP_067691.1
RefSeq Size:	1440 bp
RefSeq ORF:	1212 bp
Locus ID:	59267
UniProt ID:	Q62747
Cytogenetics:	1q43
MW:	45.5 kDa
Gene Summary:	plasma membrane Ca(2+) sensor in synaptic exocytosis complementary to vesicular synaptotagmins [RGD, Feb 2006]