

Product datasheet for **RR205727**

Stx4 (NM_031125) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stx4 (NM_031125) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stx4
Synonyms:	Stx4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205727 representing NM_031125 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGCGACAGGACCCATGAGTTGAGGCAGGGGATAACATCTCAGACGATGAAGATGAGGTTTCGAGTCC
CGTTGGTGGTGCCTCAGGTGCCCGCCGGCTGAGCAGCCCGGACGACGAGTTCTCCAGAAGGTGCAGAC
AATTCGCGAGACTATGGCCAACTGGAGAGTAAAGTCCGGGAGTTGGAGAAACAGCAGGTCACCATTCTG
GCCACGCCTCTCCCGAGGAGAGCATGAAGCAGGGCCTGCAGAACCTGCGAGAGGAGATCAACAGCTGG
GGAGAGAAGTCCGGGCACAGCTAAAAGCCATAGAGCCCCAGAAGGAAGAAGCTGATGAGAATTATAATTC
AGTCAACACAAGAATGAAGAAAACCCAGCATGGGGTCTGTCCAGCAGTTTGTGGAGCTCATCAACAAG
TGTAACCTCAATGCAGTCCGAGTACCGAGAGAAGAACGTGGAGCGCATTCCGGCGCAGCTGAAGATCACCA
ATGCTGGAATGGTGTCTGACGAGGAACTGGAGCAGATGCTGGACAGTGGCAGAGTGAGGTGTTGTGTC
TAATACTGAAGGACACACAGGTGACCCGGCAGGCCCTGAATGAGATCTCTGCGCGACACAGTGAGATC
CAGCAGTTGGAGCGCACGATCCGTGAATCCATGAGATCTTCACTTTTCTAGCTACCGAGGTGGAGATGC
AGGGAGAGATGATCAATCGTATCGAAAAGAACATTCTGAGCTCAGCAGACTATGTGGAACGTGGCAAGA
ACATGTCAAGATAGCGCTAGAGAATCAGAAGAAGGCGAGGAAGAAAAGGTCATGATTGCCATCTGTGTT
TCTGCTACTGTTCTCATCTTGGCTGTCATCATTGGCATCACCATAAACCGTTGGA

ACGCGTACGCGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205727 representing NM_031125
 Red=Cloning site Green=Tags(s)

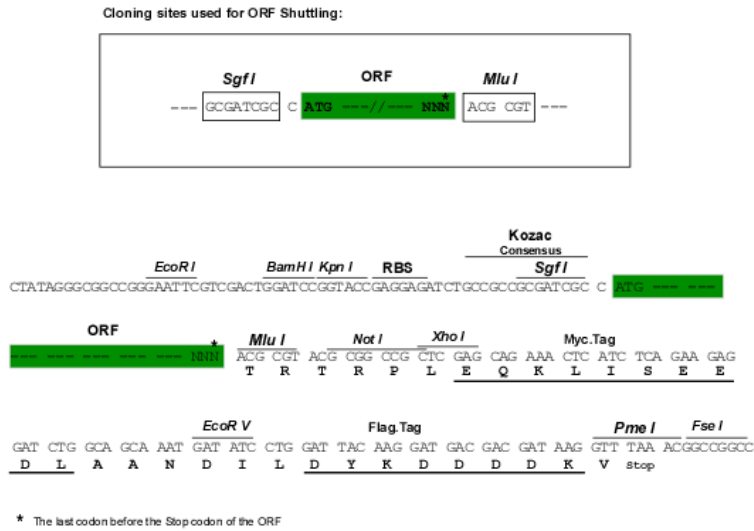
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 ATPLPEESMKQGLQNLREEIKQLGREVRAQLKAIEPQKEEADENYSVNTRMKKTQHGLSQQFVELINK
 CNSMQSEYREKNVERIRRQLKITNAGMVSDEELEQMLDSGQSEVFSNLIKDTQVTRQALNEISARHSEI
 QQLERTIRELHEIFTFLLATEVEMQGEMINRIEKNILSSADYVERGQEHVKIALENQKKARKKKVMIAICV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

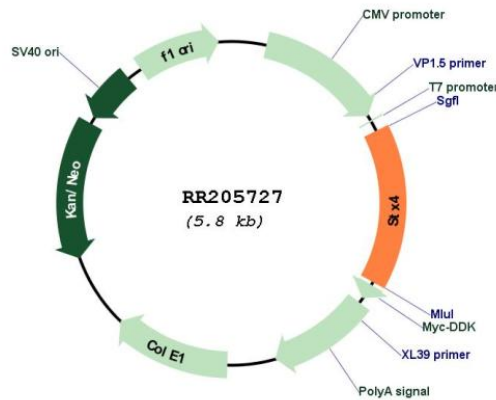
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031125

ORF Size: 894 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_031125.1 , NP_112387.1
RefSeq Size:	973 bp
RefSeq ORF:	897 bp
Locus ID:	81803
UniProt ID:	Q08850
Cytogenetics:	1q37
MW:	34.2 kDa
Gene Summary:	involved in docking of synaptic vesicles at presynaptic active zones [RGD, Feb 2006]