

## Product datasheet for MR204194

### Stx17 (NM\_026343) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stx17 (NM_026343) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stx17
Synonyms:	4833418L03Rik; 6330411F21Rik; 9030425C21Rik; AW048351
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204194 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGAAGATGAGGAAAAGGTGAAGTTACGCAGGCTTGAGCCAGCGATACAGAAATTCCTAAGATCG  
TGATCCCAACAGACCTGGAGAGGCTAAGAAAACACCAGATAAACATCGAGAAGTATCAGCGGTGCAGAAT  
TTGGGACAAGTTGCACGAAGAGCACATCAACGCAGGGCGCACGGTTCAGCAACTGCGCTCCAATATCCGA  
GAAATGGAGAAGCTTTGCTTGAAGTGCACAAGGATGATCTGGTCTTTTGAAGCGAATGATAGATCCTG  
TCAAGGAAGCAGCAGCAACAGCTACGGCAGAGTTCCTCCAGCTCCACTTGAATCTGTTGAAGAAGTCAA  
GAAACAAGTCAACGATGAAGAATTACTTCAGCCTTCTCTGACCAGATCCACAAGTGTGATGGAGTGCTC  
CACACTGGGGAGGCTGAAGCTGCTTCTCAGAGTCTGACTCAGATATATGCCTTGCCTGAAATTCCTCAAG  
ACCAAAATGCTGCTGAGTCTGGGAAACCTTAGAAGCGGACTTAATTGAGCTGAGCCATCTGGTCACTGA  
CATGTCCCTCCTAGTGAGTTCTCAGCAGGAGAAGATTGACAGCATTGCAGACCATGTCAACAGTGCCGCT  
GTGAATGTTGAAGAGGGAACAAAACTGCAGAAGGCTGCAAAATACAAGTGGCAGCTCTGCCTGTGG  
CAGGTGCACTCATCGGAGGAGTGGTAGGGGTCCCATCGGCTCCTCGCAGGCTTCAAAGTGGCAGGAAT  
TGCAGCTGCACTTGGTGGTGGGTGTTAGGCTTCACAGGTGAAAATTGATACAAAGAAGGAAACAGAAA  
ATGATGGAGAAGCTCACTTCCAGCTGTCCAGATCTCCCTAGCCAAAGTGACAAAAACGCAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204194 protein sequence  
Red=Cloning site Green=Tags(s)

MSEDEEKVKLRRLEPAIQKFTKIVIPTDLERLRKHQINIEKYQRCRIWDKLHEEHINAGRTVQQLRSNIR  
 EMEKLCCLKVHKDDL VLLKRMIDPVKEAAATATAEFLQLHLESVEELKKQVND EELLQPSL TRSTTV DGV L  
 HTGEAE AASQSL TQIYALPEIPDQNAAESWETLEADLIELSHLVTDM SLLVSSQEQEKIDS IADHVNSAA  
 VNVEEGTKNLQKAAKYKLAALPVAGALIGGVVGGPIGLLAGFKVAGIAAALGGV L GFTGGKLIQRKQK  
 MMEKLTSSCPDLPSQDKKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026343

**ORF Size:** 906 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\\_026343.2](#), [NP\\_080619.2](#)

**RefSeq Size:** 5777 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 67727

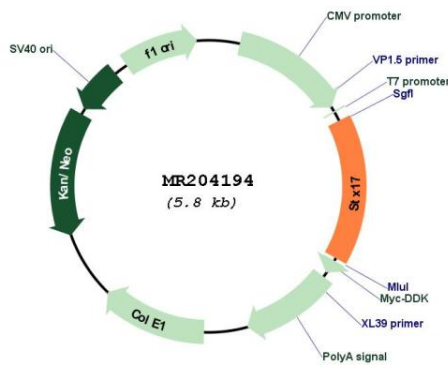
**UniProt ID:** [Q9D0I4](#)

**Cytogenetics:** 4 B1

**MW:** 33.2 kDa

**Gene Summary:** SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion. STX17 is a SNARE of the autophagosome involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane. May also play a role in the early secretory pathway where it may maintain the architecture of the endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi and/or regulate transport between the endoplasmic reticulum, the ERGIC and the Golgi (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204194