

Product datasheet for **MG204194**

Stx17 (NM_026343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stx17 (NM_026343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stx17
Synonyms:	4833418L03Rik; 6330411F21Rik; 9030425C21Rik; AW048351
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204194 representing NM_026343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAAGATGAGGAAAAGGTGAAGTTACGCAGGCTTGAGCCAGCGATACAGAAATTCCTAAGATCG
TGATCCCAACAGACCTGGAGAGGCTAAGAAAACACCAGATAAACATCGAGAAGTATCAGCGGTGCAGAAT
TTGGGACAAGTTGCACGAAGAGCACATCAACGCAGGGCGCACGGTTCAGCAACTGCGCTCCAATATCCGA
GAAATGGAGAAGCTTTGCTTGAAGTGCACAAGGATGATCTGGTCTTTTGAAGCGAATGATAGATCCTG
TCAAGGAAGCAGCAGCAACAGCTACGGCAGAGTTCCTCCAGCTCCACTTGAATCTGTTGAAGAAGTCAA
GAAACAAGTCAACGATGAAGAATTACTTCAGCCTTCTCTGACCAGATCCACAAGTGTGATGGAGTGCTC
CACACTGGGGAGGCTGAAGCTGCTTCTCAGAGTCTGACTCAGATATATGCCTTGCCTGAAATTCCTCAAG
ACCAAAATGCTGCTGAGTCTGGGAAACCTTAGAAGCGGACTTAATTGAGCTGAGCCATCTGGTCACTGA
CATGTCCCTCCTAGTGAGTTCTCAGCAGGAGAAGATTGACAGCATTGCAGACCATGTCAACAGTGCCGCT
GTGAATGTTGAAGAGGGAACCAAAACTGCAGAAGGCTGCAAAATACAAGCTGGCAGCTCTGCCTGTGG
CAGGTGCACTCATCGGAGGAGTGGTAGGGGTCCCATCGGCTCCTCGCAGGCTTCAAAGTGGCAGGAAT
TGCAGCTGCACTTGGTGGTGGGTGTTAGGCTTCACAGGTGAAAAATTGATACAAAGAAGGAAACAGAAA
ATGATGGAGAAGCTCACTTCCAGCTGTCCAGATCTCCCTAGCCAAAGTGACAAAAACGCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204194 representing NM_026343
 Red=Cloning site Green=Tags(s)

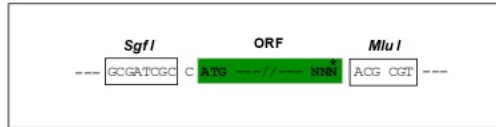
MSEDEEKVKLRRLEPAIQKFTKIVIPTDLERLRKHQINIEKYQRCRIWDKLHEEHINAGRTVQQLRSNIR
 EMEKLCCLKVHKDDL VLLKRMIDPVKEAAATATAEFLQLHLESVEELKKQVND EELLQPSL TRSTTV DGV L
 HTGEAE AASQSL TQIYALPEIPQDQNAAESWETLEADLIELSHL VTDMSLLVSSQQEKIDS IADHVNSAA
 VNVEEGTKNLQKAAKYKLAALPVAGALIGGVVGGPIGLLAGFKVAGIAAALGGV LGFTGGKLIQRRKQK
 MMEKLTSSCPDLPSQSDKKRS

TRTRPLE - GFP Tag - V

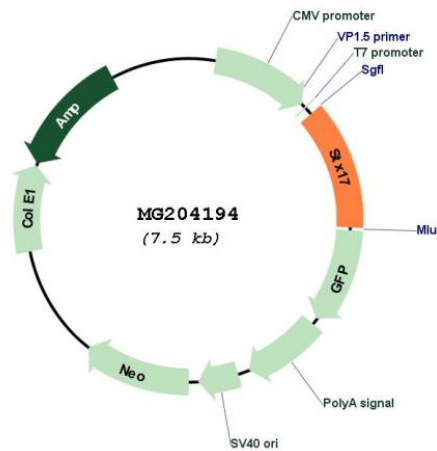
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_026343

ORF Size: 903 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_026343.2 , NP_080619.2
RefSeq Size:	5777 bp
RefSeq ORF:	906 bp
Locus ID:	67727
UniProt ID:	Q9D0I4
Cytogenetics:	4 B1
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]