

Product datasheet for **RR205544**

Stx2 (NM_012748) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stx2 (NM_012748) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stx2
Synonyms: Epim
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205544 representing NM_012748
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGGACCGGCTGCCGGACCTCACGGCGTGTAGGAAAAGCGACGATGGAGACAATGCTGTCATCATCA
CGGTGGAGAAGGACCACTTCATGGATGCCTTCTCCATCAGGTGGAGGAGATTGAAGCAGCATAGCCAG
GATTGCTCAGCAGTGGAGGATGTGAAGAAGAACCACAGCATCATCCTCTCTGCCCAAACCCAGAAGGA
AAAATAAAGAAGAGCTGGAGGACCTGAACAAAGAGATCAAGAAAAGTCTAACAGGATCCGGGGCAAGC
TGAAGGCTATTGAGCAGATTGTGATCAGGACGAGAATGGGAACCGAACTTCAGTGGATCTGCGGATACG
AAGGACCCAGCACTCAGTGTGTACGGAAGTTTGTGGACGTCATGACAGAATACAATGAAGCACAGATC
CTGTTTCGGGAGCGAAGCAAAGGCCGAATCCAGCGCCAGCTAGAGATCACTGGGAGGACCACCACTGACG
AGGAGCTGGAGGAGATGCTGGAGAGCGGGAAGCCGTCATCTTCATCTCGGACATTATATCAGATTCACA
GATTACTAGGCAAGCTCTCAATGAGATCGAGTCACGCCACAAAGACATCATGAAGCTGGAGACCAGCATC
CGAGAGCTGCACGAGATGTTTATGGATATGGCCATGTTTGTGCGAGACTCAGGGTGAATGGTCAACAACA
TTGAGAGAAACGTGGTGAACCTCCGTAGATTACGTGGAGCAGCCAAAGGAAGAGACTAAGAAGCCATCAA
ATACCAGAGCAAGGCCAGACGGAAAAAGTGGATAATTGCTGCTGTGGTGGTGGCTGTCATTGCTGTCTG
GCTCTAATCATTGGCTTGACGGTTGGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205544 representing NM_012748
 Red=Cloning site Green=Tags(s)

MRDRLPDLTACRKSDGDNAVIITVEKDFMDAFFHQVEEIRSSIARIAQHVEDVKKNHSIILSAPNPEG
 KIKEELEDLNKEIKKTANRIRGKLAIEQSCDQDENGNRTSVDLRIRRTQHSVLSRKFFVDMTEYNEAQI
 LFRERSKGRIQRQLEITGRITTTDEELEEMLESKPSIFISDIISDSQITRQALNEIESRHKDIMKLETISI
 RELHEMFMDMAMFVETQGEMVNNIERNVNSVDYVEHAKKEETKKAIKYQSKARRKKWIIAAVVAVIAVL
 ALIIGLTVGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

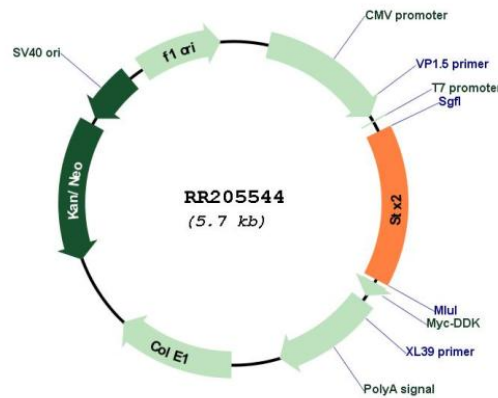
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012748

ORF Size: 870 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_012748.1 , NP_036880.1
RefSeq Size:	911 bp
RefSeq ORF:	873 bp
Locus ID:	25130
UniProt ID:	P50279
Cytogenetics:	12q13
MW:	33.4 kDa
Gene Summary:	Essential for epithelial morphogenesis. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm.[UniProtKB/Swiss-Prot Function]