

Product datasheet for **RC204505**

STX19 (NM_001001850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STX19 (NM_001001850) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STX19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204505 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACCGACTTCAAGAAGCTAAAGCAGAGAAACAAGGAAATTGAACTCTCTAGAGACAGTCATGTAT
CAACTACAGAAACAGAGGAACAAGGGTGTCTACAGCAAGCTGTTATTTATGAAAGAGAGCCTGTAGC
TGAGAGACACCTACATGAAATCCAAAACTACAGGAAAGTATTAACAATTTGGCAGATAATGTTCAAAAA
TTGGGCAGCAACAGAAAAGCTGGTGGCTTCAATGAGAAGGTTTAGTCTACTTAAGAGAGAGTCTACCA
TTACAAAAGGAGATAAAAAATTCAGGCAGAATACATCAACAGAAGTTGAATGATTTAGTTAAAGAAGTTAA
AAAGTCAGAGGTTGAAAATGGTCCATCTTCAGTGGTCACAAGGACTTAAATCTCAGCATGCTGCAATG
TTCCGCCATTTTCAGCAATCATGTTTATATAAATGACACAATAGCAGCAAAGCAAGAGAAGTGAAGA
CATTTATTTTACGTCAGCTTGAAGTTGCTGGAAAAGAGATGTCTGAAGAAGATGTAATGATATGCTTCA
TCAAGGAAAATGGGAAGTTTTAATGAAAGCTTACTTACAGAAATCAATATCACTAAAGCACAACCTTTCA
GAGATTGAACAGAGACACAAGGAAGTTGTTAATTTGGAGAACCAATAAAGGATTTAAGGGATCTTTTCA
TTCAGATATCTCTTTTAGTAGAGGAACAAGGAGAGAGCATCAATAATTTGAAATGACAGTGAATAGTAC
AAAAGAGTATGTTAAACAATAAAGAGAAATTTGGACTAGCTGTAATAACAAAAAAGAAATCCTTGC
AGAGTACTGTGTTGTTGGTGCTGCCATGCTGTAGCTCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204505 protein sequence
Red=Cloning site Green=Tags(s)

MKDRLQELKQRTKEIELSRDSHVSTTETEEQGVFLQQAVIYEREPVAERHLHEIQKLQESINNLADNVQK
 FGQQQKSLVASMRRFSLKRESTITKEIKIQAEYINRSLNDLVKEVKKSEVENGPSSVTRILKSQHAAM
 FRHFQQIMFIYNDTIAAKQEKCCTFILRQLEVAGKEMSEEDVNDMLHQGKWEVFNESLLTEINITKAQLS
 EIEQRHKELVNLENQIKDLRDLFIQISLLVEEQGESINNIEMTVNSTKEYVNNNTKEKFGGLAVKYKKRNP
 RVLCCWCCPCCSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001001850

ORF Size: 882 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_001001850.1](#), [NP_001001850.1](#)

RefSeq Size: 1198 bp

RefSeq ORF: 885 bp

Locus ID: 415117

UniProt ID: [Q8N4C7](#)

Cytogenetics: 3q11.2

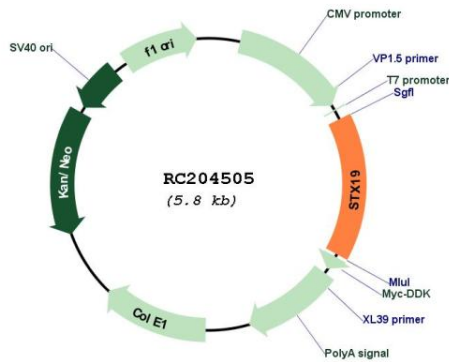
Protein Families: Druggable Genome

Protein Pathways: SNARE interactions in vesicular transport

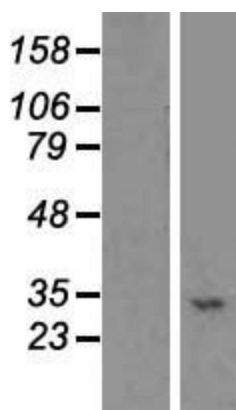
MW: 34.3 kDa

Gene Summary: Plays a role in endosomal trafficking of the epidermal growth factor receptor (EGFR).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204505



Western blot validation of overexpression lysate (Cat# [LY424251]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204505 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).