

Product datasheet for **RG208398**

Munc18c (STXBP3) (NM_007269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Munc18c (STXBP3) (NM_007269) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Munc18c
Synonyms:	MUNC18-3; MUNC18C; PSP; UNC-18C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208398 representing NM_007269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCGCCGGTGGCAGAGAGGGGGCTAAAGAGCGTCGTGTGGCAGAAGATAAAAGCAACAGTGTTTG
 ATGACTGCAAGAAAGAAGGCGAATGGAAGATAATGCTTTTAGATGAATTTACCACTAAGCTTTTGGCATC
 GTGTTGCAAAATGACAGATCTTCTAGAAGAAGGTATTACTGTTGTAGAGAATATTTATAAGAACCGTGAA
 CCTGTCAGACAAATGAAAGCTCTTTATTTCACTACTCCGACATCAAAGTCTGTAGATTGTTTCTTACATG
 ATTTTGAAGTAAATCGGAGAACAAGTATAAAGCAGCATATTTTACTTCACTGACTTTTGCCTGATAA
 TCTCTTTAACAAAATTAAGGCTTCTGCTCCAAGTCAATAAGAAGATGTAAGAAATAAATATTTCTTTC
 ATTCCACATGAATCTCAGGTGTACTCTTGATGTACCAGATGCATTCTATTACTGTTATAGTCCAGACC
 CTGGTAATGCAAAGGGAAAAGATGCCATTATGAAACAATGGCTGACCAGATAGTTACAGTGTGTGCCAC
 CTTGGATGAAAAATCCCGGAGTAAGATATAAAAGTAAACCTCTAGATAATGCCAGTAAGCTTGCACAGCTT
 GTTGAAAAAAGCTTGAAGACTACTACAAGATTGATGAAAAGAGCCTAATAAAGGGTAAAACCTATTAC
 AGCTCTTAATAATTGATCGTGGCTTTGATCCTGTGTCCACTGTCCTGCATGAACTGACCTTTCAGGCAAT
 GGCATATGATCTACTACCAATTGAGAATGATACATACAAATATAAAACAGATGAAAAAGAAAAGGAGGCC
 ATCCTTGAAGAAGAAGATGACCTCTGGGTTAGAATTCGACATCGACATATTGCGGTTGTGTTAGAGGAAA
 TTCCCAAGCTTATGAAAGAAATTCATCAACAAAGAAAGCAACAGAAGGAAAAGACATCACTTAGTGTCT
 TACCCAGCTGATGAAAAAGATGCCCATTTCCGAAAACAGATTACTAAGCAAGTTGTCCATCTTAACTTA
 GCAGAAGATTGCATGAATAAGTTCAAGCTTAATATAGAAAAGCTCTGCAAACTGAACAGGACCTGGCAC
 TTGGAACGTGATGCAGAAGGACAGAAGGTGAAAGATTCCATGCGAGTACTCCTTCCAGTTCTACTCAACA
 AAATCATGATAAATTGTGATAAAAATAAGAGCAATTTCTACTTTATATCTTCAGTATTAATGGAACTACGGAA
 GAAAAATTTGGACAGGTTGATCCAGAATGTAAGATAGAAAATGAGAGTGACATGATTTCGTAAGTGGAGTT
 ACCTTGGTGTCCATTGTTCCCAATCTCAACAAGGCAAACCGTTAAGAAAGGATCGGTCTGCAGAAGA
 AACTTTTCAGCTCTCTCGGTGGACACCTTTTATCAAAGATATTATGGAGGATGCTATTGATAATAGATTA
 GATTCAAAGAATGGCCATATTGTTCCAGTGTCCAGCAGTATGGAATGGTTCAGGAGCTGTAAGTGCTC
 GCCAGAAACCCAGAGCTAATTATTTAGAAGACCGAAAAAATGGGTCAAAGCTGATTGTTTTTGAATTGG
 AGGGATCACATACTCTGAAGTGCCTGTGCTTATGAAGTTTCTCAGGCACATAAATCCTGTGAAGTTATT
 ATTGTTCTACACATGTTTTAACACCCAAAAAGCTGTTGGATGATATAAAGATGCTGAATAAACCCAAAG
 ATAAAGTCTCCTAATTAAGATGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208398 representing NM_007269
 Red=Cloning site Green=Tags(s)

MAPPVAERGLKSVVWQKIKATVFDDCKKEGEWKIMLLDEFKLLASCKMTDLLEEGITVVENIYKNRE
 PVRQMKALYFITPTSKSVDCFLHDFASKSENKYKAAAYIYFTDFCPDNLFNKIKASCSKSIRRCKEINISF
 IPHESQVYTLDPDAFYCYSPDPGNAKGKDAIMETMADQIVTVCATLDENPGVRYKSKPLDNASKLAQL
 VEKKLEDYKIDEKSLIKGKTHSQLLIIDRGFDPVSTVLHELTFQAMAYDLLPIENDTYKYKTDGKEKEA
 ILEEEDDLWVRIRHRHIAVVLEEIPKLMKEISSTKKATEGKTSLSALTQLMKMPHFRKQITKQVHLNL
 AEDCMNFKLNIKLEKTEQDLALGDAEGQVKDSMRVLLPVLLNKNHNDNCDKIRAILLYIFSINGTTE
 ENLDRLIQNVKIEENSDMIRNWSYLGVPVQPQQGKPLRKDRSAEETFQLSRWTFPIKDIMEDAIDNRL
 DSKEWYCSQCPAVWNGSGAVSARQKPRANYLEDKNGSKLIVFVIGGITYSEVRCAYEVSQAHKSCSEVI
 IGSTHVLTPKKLLDDIKMLNPKDKVSLIKDE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007269

ORF Size: 1776 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_007269.4](#)

RefSeq Size: 2522 bp

RefSeq ORF: 1779 bp

Locus ID: 6814

UniProt ID: [O00186](#)

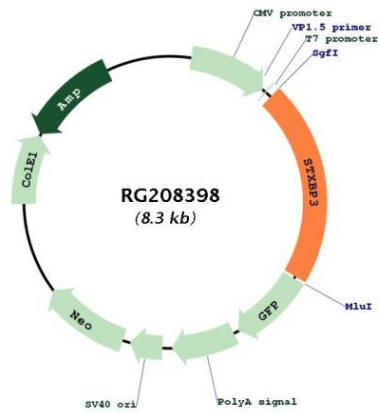
Cytogenetics: 1p13.3

Domains: Sec1

Protein Families: Stem cell - Pluripotency

Gene Summary: Together with STX4 and VAMP2, may play a role in insulin-dependent movement of GLUT4 and in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208398