

Product datasheet for **SC118145**

Munc18 1 (STXBP1) (NM_003165) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Munc18 1 (STXBP1) (NM_003165) Human Untagged Clone
Tag:	Tag Free
Symbol:	Munc18 1
Synonyms:	DEE4; MUNC18-1; N-Sec1; NSEC1; P67; RBSEC1; unc-18A; UNC18; unc18-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118145 sequence for NM_003165 edited (data generated by NextGen Sequencing)

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ATGGCCCCATTGGCCTCAAAGCTGTTGTCTGGAGAGAAGATTATGCATGATGTGATAAAG
AAGGTCAAGAAGAAGGGGAATGGAAGGTGCTGGTGGTGGATCAGTTAAGCATGAGGATG
CTGTCCTCCTGCTGCAAGATGACAGACATCATGACCGAGGGCATAACGATTGTGGAAGAT
ATCAATAAGCGCAGAGAGCCGCTCCCAGCCTGGAGGCTGTGTATCTCATCACTCCATCC
GAGAAGTCCGTCCACTCTCTCATCAGTGACTTTAAGGACCCGCGACTGCTAAATACCGG
GCTGCACACGTCTTCTTCACTGACTTTGTCCAGATGCCCTGTTAATGAACTGGTAAAA
TCCCGAGCAGCCAAAGTCATCAAACTCTGACGAAATCAATATTGCATTTCTCCCGTAT
GAATCCCAGGTCTATTCTTGGACTCTGCTGACTCTTTCCAAAGCTTCTACAGTCCCAC
AAGGCTCAGATGAAGAATCTATACTGGAGCGCCTGGCAGAGCAGATCGCGACCCTTTGT
GCCACCCTGAAGGAGTACCCGGCTGTGCGGTATCGGGGGAATACAAGGACAATGCCCTG
CTGGCTCAGCTAATCCAGGACAAGCTCGATGCCTATAAAGCTGATGATCCAACAATGGGG
GAGGGCCAGACAAGGCACGCTCCAGCTCCTGATCCTGGATCGAGGCTTTGACCCAGC
TCCCTGTGCTCCATGAATTGACTTTTTCAGGCTATGAGTTATGATCTGCTGCCTATCGAA
AATGATGTATACAAGTATGAGACCAGCGCATCGGGGAGGCACGGGTGAAGGAGGTGCTC
CTGGACGAGGACGACGACCTGTGGATAGCACTGCGCCACAAGCACATCGCAGAGGTGTC
CAGGAAGTCACCCGGTCTCTGAAAGATTTTCTTCTAGCAAGAGAATGAATACTGGAGAG
AAGACCACCATGCGGGACCTGTCCCAGATGCTGAAGAAGATGCCTCAGTACCAGAAAGAG
CTCAGCAAGTACTCCACCACCTGCACCTTGTGAGGACTGTATGAAGCATTACCAAGGC
ACCGTAGACAAACTCTGCCGAGTGGAGCAGGACCTGGCCATGGGCACAGATGCTGAGGGA
GAGAAGATCAAGGACCCTATGCGAGCCATCGTCCCCATTCTGCTGGATGCCAATGTCAGC
ACTTATGACAAAAATCCGCATCATCTTCTCTACATCTTTTTGAAGAATGGCATCACGGAG
GAAAACCTGAACAAACTGATCCAGCACGCCAGATACCCCGGAGGATAGTGAGATCATC
ACCAACATGGCTCACCTCGGCGTGCCCATCGTCACCGATTCCACGCTGCGTCGCCGGAGC
AAGCCGGAGCGGAAGGAACGCATCAGCGAGCAGACCTACCAGCTCTCACGGTGGACTCCG
ATTATCAAGGACATCATGGAGGACACTATTGAGGACAACTTGACACCAAACTACCCT
TATATCTCTACCCGTTCTCTGCCTCCTTACGACACCACCGCCGTCAGCGCCCGCTATGGG
CACTGGCATAAAGAACAAGCCCCAGGCGAGTACCGCAGTGGCCCCCGCTCATATTTTC
ATCCTTGGGGGTGTGAGCCTGAATGAGATGCGCTGCGCCTACGAGGTGACCCAGGCCAAC
GGAAAGTGGGAGGTGCTGATAGTTCTACTCACATTCTTACTCCCACCAATTTCTCATG
GACCTGAGACACCCCGACTTCAGGGAGTCTCTAGGGTATCTTTTGAGGATCAGGCTCCA
ACAATGGAGTGA
    
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Clone variation with respect to NM_003165.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003165 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGGGGAGCCGGGAGACTCGCGCAG CGCCATGGCCCCCATTGGCCTCAAAGCTGTTGTCGGAGAGAAGATTATGCATGATGTGAT AAAGAAGTCAAGAAGAAGGGGAATGGAAGGTGCTGGTGGATCAGTTAAGCATGAG GATGCTGTCTCCTGCTGCAAGATGACAGACATCATGACCGAGGGCATAACGATTGTGGA AGATATCAATAAGCGCAGAGAGCCGCTCCCCAGCCTGGAGGCTGTGTATCTCATCACTCC ATCCGAGAAGTCCGTCCACTCTCTCATCAGTGACTTTAAGGACCCGCCGACTGCTAAATA CCGGGCTGCACACGTCTTCTTCACTGACTTTGTCCAGATGCCCTGTTTAACTGAAGTGGT AAAATCCCGAGCAGCAAAGTCAAAAACCTCTGACGAAATCAATATTGCATTTCTCCC GTATGAATCCCAGGTCTATTCTTGGACTCTGCTGACTCTTCCAAAGCTTCTACAGTCC CCACAAGGCTCAGATGAAGAATCTATACTGGAGCGCCTGGCAGAGCAGATCGCGACCTT TTGTGCCACCCTGAAGGAGTACCCGGCTGTGCGGTATCGGGGGAATACAAGGACAATGC CCTGCTGGCTCAGCTAATCCAGGACAAGCTCGATGCCTATAAAGCTGATGATCCAACATG GGGGAGGGCCAGACAGGCACGCTCCAGCTCCTGATCCTGGATCGAGGCTTTGACCCCA GCTCCCTGTGCTCATGAATTGACTTTTCAGCTATGAGTTATGATCTGCTGCTATCGAAAT GATGTATACAGTATGAGACAGCGCATCGGGAGCACGGTAAAANGAGTGCTCTGGGACAGA CNACACCTGTGNTAGCCTGCGCACAGCATGNAAGTGTCCAGGAGTCCCGCTTTGAAG ATTTCTTAAAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003165 unedited TGGACCGGGGCCCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTAGGTTTGGAGGGGAATGCTGGAAATTGTAATGGGTATGGAAACATAT CATATAAGTAATGCTAGGGGAGTGGTAGGAAATTTTTCATAGGAGGGGTATGAATTGG TCGTACCGGAATCGGGGTATGAAACCTGGGAAAGGCAAAAAGTCTGTTCCACCTTGG ACCTCCTGAAATATCCTGATTGTACCTCCCAGGTTATTTGGATGAAAACAGGCCCTGAG GGGTAGGGACTGGAATGAAAATACCAAATTAGTCTCAGTGGGAAATACTCCAAGAACAC AGACATCTCTATGATTCTCAACAAGGACAGGAACAACCCCAACAAGGTTTTAAAAACAC CCAAATTTCTACCGTCCATACCAAGCAATGGGCACGTACCCAGGTTATGTACAAGG GCACAAATCTTAAATAACGGGGAGAAGGCGTCCATTCATCCTAACAGTCCAAAAATTTCT CCTGTGTGCACCAATTGCACATGAGCTTCTCTTTTTAGGATACATGTATAAGATACTCT TTTTAAAAAACACAATGCATTATTTTCTTTTGTTCAAAACAAGAAGAGGGCCTTACTGAA CACGAGAATGCAGCGGCAACAGTGCCACCCAGGGCGTCAAGCCTGGGGAGGCAACACAC GCCAAGGAACTGAGGCGGGCCGTGGTGGGAAACCTCCGAACCCTGTGGGATGGGGGGCTG TTTTTGAAGGCCGACCTTATTTTTTAACCGCTTATTTCTTCATCGGGTATTCAAGTCC TCCAAGGGTCCCACCATTTCTGTGGGGGGAGATATTNTTTCGAAACCCCTTCCCCCTC CC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003165
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003165.1](#), [NP_003156.1](#)

RefSeq Size: 3899 bp

RefSeq ORF: 1812 bp

Locus ID: 6812

UniProt ID: [P61764](#)

Cytogenetics: 9q34.11

Domains: Sec1

Gene Summary: This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via regulation of syntaxin, a transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).