

Product datasheet for **MC224734**

Unc13b (NM_021468) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Unc13b (NM_021468) Mouse Untagged Clone
Tag: Tag Free
Symbol: Unc13b
Synonyms: Munc13-1; Munc13-2; Unc13a; Unc13h1; Unc13h2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224734 representing NM_021468
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGTCGCTGCTCTGTGTGCGTGTAAAAGAGCCAAATCCAGGGTTCACCAGATAAAATTTAACACATATG
TGACCCCTGAAAGTCCAGAACGTGAAGAGCACAAGTGTAGCAGTTCGTGGTGATCAGCCTTCTGGGAGCA
GGATTTTCATGTTTGTAGATCAGTCTGTGGACCTGGGCCTAAGTGTGGAGGTGTGGAACAAGGGACTGATA
TGGGACACAATGGTGGGCACCGTGTGGATTGCACTGAAGACAATCCGTCAGTCCGATGAGGAAGGGCCCC
GGGAGTGGTCTACACTGGAGGCAGAGACGTTAATGAAAGATGATGAGATCTGTGGAATAAAATCCAAC
TCCTCATAAAATCTTGCTTGATACAAGATTTGAGCTGCCTTTTGACATCCCAGAGGAGGAAGCCAGATAT
TGGACCTACAAATGGAGCAAAATCAATGCCTTGGCAGATGATAATGAGTATTCTAGTCAAGAAGAAAGCC
AGAGGAAGCCATTACCCACTGCTGCCGCCAGTGTGTCACTGGACCTATTTGGGCTGGGAGAGCATCA
GACCTTTGAAGACCCTGATAGTGCCGTTGATGACCGAGACAGTACTACCGCAGTGAGACCAGCAATAGC
GCCCCACCTCCTTACCACAGACTACCCAGCCCAACGCTTCTGTACACCAGTCCCTGTCTCTGTGCGGC
TGCCACAGCAGCTCTTTCTTCAAGGCAGTTCATGACTCTTGCAATGACTCTATGCAGAGTTACGACT
TGATTATCCAGAGCGTCCGGCCCTCAGCCCTACCAGCAGTGTAGGTATGGCTCCTCCTGTAATGTGAGT
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AGCCTTGGAAAGTGACATGTGAATCAGAAAAAGAGAAAACAGGTGAATCCAAGGAGATGAGAGATGATGCT
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AGGAGACCGCATCATCGCCATTTACCCAGGCCAGAGCACACTGGTTCCGAGCGGTTACCAAGGTCGACT
CCAAGTGCAGGAGATTTCAAGTGTGGTACCCTCCTTGCCCTCAGTGGCTCCAGAAAGGCCAGCTGGA
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ACTGAAATCTCATGTGTATAAGAAAACCTCTGCAGGCCTTAATCTACCCATCTCGTGTACCACGCCCCAC
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CCCGGCAAGGCATGCGCTGCAGCGAGTGTGGAGTCAAGTGCCATGAGAAGTGCCAGGACCTGCTCAATGC
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 CTCAAGTGGTCAGCCAAAATTACCATCACGGTGGTTTGTGCCAGGGCTACAAGCCAAAGACAAGACA
 GGATCCAGTGACCCCTTATGTACTGTCAAGTTGGGAAAACCAAGAAGCGCACCAAGACCATTTTTGGAA
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 GAACAGACAAGTCAGCTGTCTCAGGGGCTATCCGACTTCAAATCAGTGTGGAGATCAAGGGGGAGGAGAA
 GGATAGCCCATACCATGTACAATATACATGTCTCCATGAGAACCTTTTCCATTACCTCACAGACATTCAG
 GGCAGTGGAGGAGTCTGGATCCCAGAGGCTCGGGGGGACGATGCATGGAAGGTGACTTTGATGAGACAG
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 CCAGTATCAGCTGCAGGAACAACCTCTAGAGGAACCCAGGGCCAGCATTCCGAACTTGGATTTCTGGCCC
 AAATTTATCAGCTCATTGTTTTCGATCATAGAGGAGGATAAGAATTCACACACCTGTTCTGAGCCAGT
 TTCTCAGGAGTTGAACGTAGGAAAAGTCAAGTGCAGAAAGTGTGGCATCTGTTTGTCAAGACATGAA
 ATATGACTGGAGAACACGAGAAAGACCGGCTGTGTAAGAGTGTGACTACATGAACCTGCACCTCAAG
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 TCCTTGGCCACTACATGAGAAGTGTGTAAGACCATTGGGAAAGTGTGATGCAGTATGCAGACATCTT
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 CTGAGGGTCCAGCTGGAGAAAATGTTTGGAGCCATGGGAGGCAAGAGCTGGACTCCGAAGCTGCAGACA
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 CCAGGTGCGGATTTGATGAATGTGTTTCGACAAATGGCTGACATCCTGGGCCAAGTTCGGGGCACAGGGAAT
 GCATCCCTAACGCCAGGGCTCGGTGGCTCAGGATGCAGATAGTGTGCTGCGACCTCTCATGGACTTCC
 TGGATGGCAACCTCACGCTGTTTGCCTGTGTGTGAGAAGACAGTTCGAAAGCGGGTCTGAAGGAGCT
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 CAGCTGATCTTAACTGCTGCCAAGGAGCTGAGCCAGCTTTCAAACCTCAAGGACCACATGGTACGGGAGG
 AAACACGGAATCTCACTCAAAGCAGTGTGCTGTCTCGACTTGGCCTTGACACCATCAAGCAATACTT
 CCATGCAGGAGCAATGGTCTGAAGAAAACCTTCTGGAAAAGAGCCAGACCTGCAGTCTCTGCGTTAT
 GCCCTCTCTGTATACACAGACTACAGACACTCATCAAGACATTTGTGCGCTCACAGACTGCCCAGG
 GGGCTGGTGTGGATGACCCCGTGGGAGAAGTCTCTATTCAAGTGGACTTATTTACACATCCTGGCACTGG
 GGAGCATAAGGTACAGTGAAGTGGTAGCAGCCAATGACCTCAAGTGGCAGACAGCGGGTATGTTCCGG
 CCTTTTGTGGAAGTGACCATGGTTGGCCACACCAAAGTATAAGAAGAGGAAGTTACACAACCAAGTCTA
 AAAGTAACAACCTGGACTCCCAAGTACAACGAGACGTTTCACTTCTCTGGGAAATGAAGAGGGTCCAGA
 GGCTATGAATTGCAGATCTGTGTGAAGGATTACTGCTTTGCCGGGAGGATCGTGTGATAGGACTGGCA
 GTGATGCCCTGAGGGATGTGCCAGCTAAGGGCAGCTGTGCTGCTGGTGGCCACTGGGCCGGAAGATCC
 ATATGGATGAGACAGGCATGACCATTCTCCGATTCTGTCTCAGAGGAGCAATGACGAGGTAGCCCGAGA
 GTTCGTGAAGCTCAAATCAGAGTCTCGATCCACAGAGGAAGGGAGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:	NM_021468
Insert Size:	4809 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:	<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_021468.3 , NP_067443.2
RefSeq Size:	6426 bp
RefSeq ORF:	4809 bp
Locus ID:	22249
UniProt ID:	Q9Z1N9
Cytogenetics:	4 A5
Gene Summary:	<p>Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP) (By similarity). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>