

Product datasheet for **RN200305**

Unc13b (NM_001042579) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Unc13b (NM_001042579) Rat Untagged Clone
Tag: Tag Free
Symbol: Unc13b
Synonyms: Munc13-2; Unc13h2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200305 representing NM_001042579
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGTCGCTGCTCTGCGTGCCTGTTAAGAGAGCCAAATCCAGGGTTCACCAGATAAGTTTAAACACATACG
 TGACCCGAAAGTCCAGAACGTGAAGAGCACAACGTAGCAGTTCGTGGTGATCAGCCTTCTGGGAGCA
 AGATTTTCATGTTTGGATCAGCCGTCTGGACCTGGGCCTAAGTGTGGAGGTGTGGAACAAAGGGCTGATA
 TGGGACACAATGGTGGGACCGTGTGGATCGCGCTGAAGACTATCCGCCAGTCCGGATGAGGAAGGGCCTG
 GGGAGTGGTCTACACTGGAGGCTGAGACATTAATGAAAAATGATGAGATCTGTGGAACAAAAACCAAC
 TCCTCATAAAAATCTTGCTTGGTACACGATTTGAGCTGCCTTTTGACATCCCAGAGGAGGAAGCCAGATAT
 TGGACCTACAAATTGGAACAAAATAATGCCTTGGCAGATGATAATGAGTATTCCAGTCAAGAAGAAAGCC
 AGAGGAAGCTGTTGCCACTGCTGCCGCCAGTGTCTGACTGGACCTATTTGGGCTGGGAGAGCATCA
 GACCTTTGAAGACCCTGATAGTGCCGTTGATGACCGGGACAGTACTATCGAAGTGAGACCAGCAATAGT
 GCCCACCTCCTTATCACAGACTACCCAGCCCAACCGTCTGCACACCAGTTCCTATGCCAGTGCCAC
 TGCCACAGCAGCTATTTCTTCAGGGAAGTTCCCGAGACTCCTGCAATGACTCTATGCAGAGTTATGACCT
 TGATTACCCAGAGCGTCCGGCCCTCAGCCCACTAGCAGTAGTGGTATGGCTCCTCCTGTAATGTGAGT
 CGAGGAAGCTCTGCTGAGTGAAGTGGACAGTATCATGAGCAAGACGATGATGGTCCGGAGAGGGACT
 CCATTCATTCTAGCCATAGCTATGGCAGCCTCTCCAGAGATGGCCAGGCTGGCTTGGGAGAAACAAGAGAA
 AGCCTTGGAAAGTGGCCTGTGAATCACAGAAGGAGAAAAACAGGTGAATCCAAGGAGAGAGATGATGCCACA
 GTCTGCCCTCCGTGAGACCTGATGCTGCACAAGGACCTCACCTAGGACCCAGGAGAGTTTTCCCGAGG
 AGAAAGCATCGTCGCCCTTTACCCAGGCCAGAGCACACTGGTTCGAGCGGTTACCAAGGTCGACTCCA
 GCTGCAGGAGATTTGAGATGATGGTACCCTCCTTGCCTCAGTGGCTCCAGAAAGGGCCAGCGGAGGG
 CTCTATGGCATCGACAGCATGCCAGATCTACGAAGAAAGAAGCCACTGCCACTTGTGAGTATCTGGCTA
 TGTCACTGGTCCAGTACGGAAGCAGGATTACTTCCGCTATGGCTACACGTACCTCTCTCAAGGATGA
 AGATCTGAAATCCATGTGTATAAGAAAACCTGCAGGCCTAATCTACCCATCTCGTGCACCACGCCC
 CAAACTTTGAGGTCTGGTCTGCCACGACACCCACTACTGCTATGAGTGTGAAGGCTTGTCTGGGGCC



TTGCCCGCAAGGCATGCGCTGCAGCGAGTGTGGCGTCAAGTGCCATGAGAAGTGCCAAGACCTGCTCAA
 TGCCGATTGCCTACAGCGGGCCGCTGAAAAGAGCTCTAAGCACGGAGCTGAGGACCGGACTCAGAACATT
 ATCATGGCCATGAAGGACCGTATGAAGATCCGAGAACGGAATAAACAGAGATCTTTGAGGTTATCCGGG
 ATGTGTTACAGTGAGCAAAGTTGCCACGTGCAGCAGATGAAAACAGTAAAGCAGAGTGTCTGGATGG
 CACCTCCAAGTGGTCGGCCAAAATTACCATCACGGTGGTTGTGCCAGGGCCTACAAGCCAAAGACAAG
 ACAGATCCAGTGACCCTTATGTGACTGTGCAAGTTGGGAAAACCAAGAAGCGCCTAAGACCATTTTGG
 GAAATTTGAATCCTGTTTGGGAGGAGAAGTTCATTTTGTAGTGCCACAACCTCTCCGATCGAATTAAGGT
 ACGTGTGTGGGATGAGGATGATGACATCAAATCCAGAGTAAAGCAGCGGCTGAAGCGAGAGTCGGATGAT
 TTCCTTGGCCAAACTATCATTGAAGTTCGAACGCTGAGTGGAGAGATGGATGTCTGGTATAATCTGGAGA
 AGAGAACAGACAAGTCAGCTGTCTCAGGGGCTATCCGACTGCAAAATCAATGTGGAGATCAAGGGGGAGGA
 GAAGGTAGCCCCATACCATGTGCAATACACATGTCTCCATGAGAATCTTTTCCATTACCTCACAGACATT
 CAGGGCAGTGGAGGAGTCTGGATCCCAGACGCTCGGGGGGACGATGCATGGAAGGTGTACTTTGACGAGA
 CAGCCCAAGAAATTTGGATGAATTTGCCATGCGCTATGGCATCGAGTCCATATATCAGGCCATGACGCA
 CTTTGGTGTGGTGCATCCAAGTACATGTGCTGCGGTACCAGCCGTGATGAGTACCTACTGGCCAAC
 ATCAATGCGTATTATGCTCACACAACCGCTCCACTAAGTCTCTGCATCTGACCGCTTTGCCGCTCCA
 ACTTTGGTAAAGAAAGATTTGTAAAACGCTGGACCAGCTACACAACCTACTGAGGATAGACCTGTCTAC
 ATACAGGAATAACTTTCTGCTGGGAGCCCTGAGCGGCTCCAGGATTTAAAATCTACAGTGGACTTGCTG
 ACCAGCATTACTTTCTCAGGATGAAGGTGCAAGAACTTCAGAGCCCCCAAGAGCCAGCCAGGTGGTAA
 AGGACTGTGTGAAGGCCCTGCTTGAACCTACATATGAATACATCTTCAACAACCTGCCATGACCTCTACAG
 TCACCAATACCAGCTGCAGGAACAACCACTAGAGGAACCGGGCCAGCATTGCGAACTTGGATTTCTGG
 CCCAAACTTATCACACTGATTGTATCAATCATAGAGGAGGATAAGAATTCCTACACACCTGTTCTGAACC
 AGTTTCTCAGGAGTTGAATGTAGGAAAAGTCAGTGCAGAAGTGTGTGGCACCTGTTTGTCTCAAGACAT
 GAAATATGCACCTGGAGGAACATGAGAAAAGACCGGCTGTGTAAGAGTGTGACTACATGAACCTGCACCTC
 AAGGTGAAGTGGCTCCACAATGAATATGTGCGGGAGCTGCCTGCCCTCCAGGGGACAGTGGCTGAGTACC
 CAGCGTGGTTTGGCAGTTCGTGCTACAGTGGCTAGATGAAAATGAAGACGTGTCCCTGGAAATCCTTCCG
 TGGGGGCTTGAACGAGATAAGAGAGATGGGTTCCAGCAACATCGGAGCATGCCTTGTCTTCTGTTCT
 GTGGTGGACGCTTTTACACAACCTCAACCAGAGCTTTGAGATCATCCGAAATTTGGAATGTCCAGACCCCA
 GCATCCTTGGCCATTATATGAGAAGTTTGTAAAGCCATCGGCAAGTGTGATACAGTATGCAGACAT
 CTTATCAAAGAACTTCCAGCTTACTGCACAAAGGAGAGACTGCCCTGTATCCTGATGAACAACATGCAG
 CAACTGAGGGTCCAGCTGGAGAAAATGTTTGGGCCATGGGAGGCAAAGAGCTGGACTCTGAAGTGCAG
 ACAGTCTGAAGGAGCTGCAGGTGAACTGAATACAGTTCTGGATGAGCTCAGCATGGTGTGGTGGAAACAG
 CTTCCAGGTGCGGATCGACGAGTGTGTTGACAAAATGGCTGACATCCTGGGCCAAGTACGGGGCACAGGG
 AATGCATCCCCTAACGCCAGAGCCTCGGTGGCTCAGGATGCAGATAGTGTGCTGCGACCTCTCATGGATT
 TCCTGGATGGCAACCTCACACTGTTTGGCACTGTGTGTGAGAAGACAGTGTGAAAGCGAGTCTGAAAGGA
 GCTCTGGCGAGTGGTGTGAACACCATGGAGCGGGTCACTGCTCCTGCCCCACTCATTGACCAGACAGGC
 ACCCAGCTGATCTTAAGTGTGCCAAGGAGCTGAGCCAGCTTTCCAAACTCAAGGACCACATGGTACGAG
 AGGAAACACGGAATCTCACTCCAAGCAGTGTGCTGTCTCGACTTGGCCTTGGACACCGTCAAGCAATA
 CTTCCATGCAGGAGGCAATGGTCTGAAGAAAACCTTCTGGAAAAGAGCCAGACCTGCAGTCTCTACGT
 TATGCCCTCTCTGTATACACAGACCACAGACACTCTCATCAAGACATTTGTGGCTCACAGACTGCC
 AAGTACATGATGGGAAAAGTATTAGGTTTACTGCTAACGAGGACATTCGGCCAGAAAAGGGGGCTGGTGT
 GGACGACCCTGTGGGAGAAGTCTCTATTAGGTTGGACTTGTTTACACATCCTGGCACTGGGGAGCATAAG
 GTCACAGTGAAGTGGTAGCAGCCAATGATCTCAAGTGGCAGACAGCAGGTATGTTCCGGCCTTTTGTGG
 AAGTGACCATGGTTGGCCACACCAAAGCGATAAGAAGAGGAAGTTCACAACCAAGTCTAAAAGTAAACAG
 CTGGACTCCCAAGTACAACGAGACTTTTCAATTTCTCCTGGGAAATGAAGAGGGTCCCGAGGCCTATGAA
 TTGCAGATATGCGTGAAGGATTACTGCTTTGCCGGGAGGATCGTGTGATAGGACTGGCAGTGTGCCCC
 TGAGGGATGTGGCAGCTAAGGGCAGCTGTGCTGCTGGTGGCCGTTGGGCCGGAAGATCCACATGGATGA
 GACAGGCATGACCATTCTCCGGATTCTGTCTCAGAGGAGCAATGATGAGGTAGCCCGAGAGTTCTGTGAAG
 CTCAAGTCAGAGTCTCGATCCATAGAGGAAGGGAGCTGA

AGCGGACCGACGCTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001042579
Insert Size:	4869 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_001042579.1 , NP_001036044.1
RefSeq Size:	5119 bp
RefSeq ORF:	4869 bp
Locus ID:	64830
UniProt ID:	Q62769
Cytogenetics:	5q22
Gene Summary:	brain specific protein that may have a role in neurotransmitter release [RGD, Feb 2006] Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at an alternate AUG and result in a shorter isoform (u), compared to isoform b.