

## Product datasheet for **RN210110**

### Unc13a (NM\_022861) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unc13a (NM_022861) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Unc13a
Synonyms:	Munc13-1; Unc13h1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210110 representing NM_022861 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCTCTGCTGTGCGTGGGAGTCAAAAAGCCAAGTTTGACGGTGCCCAAGAGAAGTTCAACACATACG  
TGACGCTGAAGGTGCAGAACGTGAAGAGCACTACCATAGCTGTACGCGCAGCCAGCCTAGCTGGGAGCA  
GGACTTCAATGTTGAGATCAACCGCTGGATCTGGGCCTGACGGTGGAGGTGTGGAACAAGGGTCTCATC  
TGGGACACAATGGTGGGTACTGTGTGGATCCCACTTCGGACCATCCGTCAGTCCAATGAGGAGGGTCCGG  
GAGAATGGCTGACACTGGACTCTCAGGCCATCATGGCGGACAGTGAATCTGTGGGACCAAGGACCCAC  
CTTCCACCGCATCCTCCTGGACGCATTTTGGAGCTGCCTTTGGACATCCCGAGGAGGAGGCGCGCTAC  
TGGGCCAAGAAGCTGGAGCAGCTGAATGCCATGCGTGACCAAGATGAGTACTCCTTTGAGGACAGCAGG  
ACAAGCCACTGCCGGTGGCCAGCAGCCAGTGTGCAACTGGAATTACTTTGGCTGGGAGAACAGAAATGA  
TGATCCCGACAGTGCCGTGGATGACCGGGACAGTGATTATAGGAGTGAGACGAGCAACAGCATCCACCG  
CCTTACTACACGACTTCGACGCCAATGCTTCGGTGCACCACTACTCCGTGCGGCCACCCCTCTGGGGT  
CCCGGGAGTCTACAGCGACTCCATGCACAGCTATGAAGAGTTCTGAGCCGCGGGCAGTCACTCCAC  
AGGCAGCAGCCGCTATGCTTCCAGTGGGAGCTGAGCCAGGCAGCTCCAGCTGAGTGAGGACTTCGAC  
CCGGATGAGCACAGCCTACAGGGCTCAGAGCTGGATGACGAGAGGACCGAGATTCTTACTCCTCTGCC  
ACAGCTCTGTGAGCTACCACAAGGACTACCCCGCTGGGACCAGGATGAGGAGGACCTGGAGGACCTGGA  
GGACCTGGAAGATGAGGAGTTGCCCGAGGAAGAGGAGTTGGAAGAGGAGGAGTTGGAGGAGGAGGAGG  
TTGGAGGAAGAGGAATTGGAGTTGGAGGAGGAGGAGGAGTGCCTGATGACCTGGCCAGCTATACCCAGC  
AGGAGGACACCACTGTGGCTGAGCCAAAGAGTTCAAGCGGATCAGCTTCCCAACAGCTGCACCTCAGAA  
GGAAGACAAAGTTTCAGCTGTGCCATTGAGGCCCGATGTGTCCAAAGGCATCCCAAGGCAGCCACA  
CCTGAAGAGAAGGCAGCTGCGGAGTGTGCACAGGAAGCGGAGCCCAAGTCTGAGGAGAGTTTCAGAT  
CTCGAGAGGCTGAGGAGGCCAGGAAGGCAGGATGCCATGTCCAGGGCCAAAGCCAAGTGGTTGCGAGC  
TTCAACAAGGTGCGCATGCAGCTGCAGGAGGCCCGAGGAGAAGGAGAGATGTCCAAAGTCTCTGTGGTTC  
AAAGGCGGCCCTGGTGGTGGCCTTATCATCATTGACAGCATGCCAGACATCAGGAAGCGGAAGCCATTC



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CCCTCGTGAGCGACCTGGCTATGTCTCTGGTCCAGTCACGGAAGGCGGGCATCACCTCGGCCTTGGCCTC  
 CAGCACGTTGAACAATGAAGAGTTGAAAAACCAGTTTACAAGAAGACCCTGCAAGCCTTAATCTACCCC  
 ATCTCCTGCACCACGCCGACAACCTTCGAGGTGTGGACGGCCACCCTCCACCTACTGCTACGAGTGCG  
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 GACCCGACGCAGAACATCATCATGGTGTGAAGGACCCCATGAAGATCCGCGAGCGCAACAAGCCGTGAGA  
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 AAGAGGGAGTCTGATGACTTCTAGGGCAGACAATCATCGAGGTGCGGACGCTTAGCGGCGAGATGGATG  
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 AGCACCTGCTTGCCAACATCAACGCCTACTACGCACACACCACCGCCTCCACCAACGTGTCTGCCTCCG  
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 GCGGATTGACCTGTCATGTACCGGAACAACCTCCCGGCCAGCAGCCCGAGCGGCTGCAGGATCTCAAG  
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 GTGCCAGTCAGGTGGTGAAGGACTGCGTGAAGGCGTGCCTCAACTCCACCTACGAGTACATCTTCAACAA  
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 CAAGGCCCTAGCATCAAGAACCTGGATTTCTGGTCCAAGCTCATACCCTCATCGTGTCTATCATTGAGG  
 AGGATAAGAACTCCTACACACCCTGCCTCAATCAGTTTCCCAGGAGCTGAATGTGGGAAGATCAGTGC  
 TGAGGTGATGTGGAGCCTGTTTGCCAGGACATGAAGTACGCCATGGAGGAACACGACAAGCACCAGGCTG  
 TGTAAGAGCGCAGACTACATGAACCTGCATTTCAAGGTCAAGTGGTTGTACAACGAGTACGTGGTGAAC  
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 TGAGAATGAGGAGGTGTCCCGGACTTCTGTCATGGTGCCTCGAGCGGACAAGAAGGATGGGTTCCAG  
 CAGACATCGGAGCAGCCCTGTTCTCTGCTCGGTAGTGGACGCTTCTCCAGCTCAACCAGAGCTTTG  
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 CATTAGCAATGTGCTTCTCCAGTACGCCGACATCGTCTCCAAGGACTTCGCTTCTACTGCTCCAAGGAG  
 AAGGAGAAAGTGCCCTGCATCCTCATGAACAACACACAGCAGCTGCGGGTGCAGCTGGAGAAGATGTTTCG  
 AGGCGATGGGTGGGAAGGAGCTGGACGCCGAGGCCAGCGGAACCCCTGAAGGAGCTGCAGGTGAAACTCAA  
 CAATGTCTGGATGAACTCAGCCACGTGTTTGCCACCAGCTTCCAGCCACACATCGAGGAGTGTGTGAGA  
 CAAATGGGTGACATCCTAAGCCAAGTGAAGGGCACGGCAACGTGCCCGCAGTGCCTGCAGCAGCGTGG  
 CACAGGACGCAGACAACGTGCTACAGCCATCATGGATCTTCTGGACAGCAACCTCACCTGTTTGCCAA  
 AATCTGTGAGAAGACGGTCTGAAGCGGGTGTGAAGGAGCTGTGAAGTGGTGAACACCATGGAG  
 AGGACCATTTGCTCCTGCCCACTCACTGACCAGCAGTATTGGTACCCTTTGAGAAAACATGGCAAGG  
 GCCTAGAAAAGGGCAGGTGAAACTGCCAAGCCACTCAGACGGGACACAATGATCTTCAATGCCGCCAA  
 GGAGCTGGGCCAGCTGTCCAACCTGAAGGATCACATGGTGCAGAGAAGAAGCCAAGAGCTTACCCCGAAG  
 CAGTGTGCCGTGGTTGAACTGGCCCTGGACACCATCAAGCAATACTTCCACGCGGGGGCGTGGCCCTCA  
 AGAAGACCTTTCTCGAGAAAAGCCCGACCTTCACTCCCTGCGCTACGCCCTGTCGCTCTACACACAGGC  
 CACCGACTGCTCATAAAACCTTCGTGCAGACGAGTACGCGCAGGTCCATGGTGGAAAGGGGACTAGG  
 TTTACCCTTAGTGAAGACGTTTGTCTGAGATGGGCTCGGGTGTGAAGACCCTGTAGGTGAAGTATCCG  
 TCCAGTGGAGCTGTTACGCATCCGGAACTGGGGAACAGAAGGTCACAGTGAAGTGGTGGCCGCCAA  
 CGACCTCAAGTGGCAGACTTCTGGCATCTCCGTCCGTTTATTGAGGTCAACATCGTTGGACCTCAGCTC  
 AGCGACAAGAAACGAAAGTTCCGCCAAATCGAAAACAACAGCTGGGGGCCAAATATAACGAGAGCT  
 TCCAGTTCTCCCTGAGCGCCGACGCGGGACCCGAGTGCTACGAGTTGCAGGTGTGCGTGAAGGACTACTG  
 CTTGCGCGCGAGGACCGCACGGTGGAGCTGGCGGTGCTGCAGCTGCGGGAGCTGGCTCAGCGCGGGAGC  
 GCCGCGTGTGGCTGCCGCTCGGCCCGCCATCCACATGGACGACACGGGGCTCACAGTGTGCGTATCC  
 TGTGCGAGCGCAGCAATGACGAGGTGGCAAGGAGTTCGTCAAGTCAAGTCCGACACGCGCTCGGCCGA

GGAGGGCGGTGCCGCGCCTGCGCCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_022861
<b>Insert Size:</b>	5208 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_022861.1</a></u> , <u><a href="#">NP_074052.1</a></u>
<b>RefSeq Size:</b>	6683 bp
<b>RefSeq ORF:</b>	5208 bp
<b>Locus ID:</b>	64829
<b>UniProt ID:</b>	<u><a href="#">Q62768</a></u>
<b>Cytogenetics:</b>	16p14
<b>Gene Summary:</b>	brain specific protein that may have role during neurotransmitter release [RGD, Feb 2006]