

Product datasheet for **SC127356**

UNC13B (NM_006377) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC13B (NM_006377) Human Untagged Clone
Tag:	Tag Free
Symbol:	UNC13B
Synonyms:	MUNC13; munc13-2; UNC13; Unc13h2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127356 sequence for NM_006377 edited (data generated by NextGen Sequencing)

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Clone variation with respect to NM_006377.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006377 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006377 unedited
 TAGCTATGNAACGCGGCACGCAATCTAGTGATCGGTTTTTTTTTTTTTTTTTTTTGGGTTT
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 ATCTGACTCTCTGAAACAGTTTGTCTCTGACCTCCAGGAAGTGTGGAGGGCCCCCTCCA
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 AGCCCTCAGGTAGACACATGTTAGAACAGCCTGTACGTCCTGAAGCATCACTCCCTGC
 CTATAGGAGTGAGGCAGGGAGACTCCCATGCAGGTGGCCCTAGTGCCTGGGGTCCAAAAG
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 AGCTGGCTTACCCAGCCGCCAGGCCCAAGCCCCACCTCTCAAACCTGGTCCTTCAATG
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 TTATTTCTCACCTCCCTCTACA

Restriction Sites:

NotI-NotI

ACCN:

NM_006377

Insert Size:

6360 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_006377.2](#), [NP_006368.2](#)

RefSeq Size: 6328 bp

RefSeq ORF: 4776 bp

Locus ID: 10497

UniProt ID: [O14795](#)

Cytogenetics: 9p13.3

Domains: C2, DAG_PE-bind

Protein Families: Druggable Genome

Gene Summary: This gene is expressed in the kidney cortical epithelial cells and is upregulated by hyperglycemia. The encoded protein shares a high level of similarity to the rat homolog, and contains 3 C2 domains and a diacylglycerol-binding C1 domain. Hyperglycemia increases the levels of diacylglycerol, which has been shown to induce apoptosis in cells transfected with this gene and thus contribute to the renal cell complications of hyperglycemia. Studies in other species also indicate a role for this protein in the priming step of synaptic vesicle exocytosis. [provided by RefSeq, Jul 2008]