

Product datasheet for **RN216808**

Midn (NM_001191577) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Midn (NM_001191577) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Midn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN216808 representing NM_001191577
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCGACGCCGGCGGCCCGGAGCTGCCGGCGGGGCCCGTGGCGCTGCGAGCTGAGCA
 CGACCGCGGAATCGGCCGCACCCATGAGCCTGGCGATCCACAGCACTACGGGGACCGCTACGACCTTTC
 GGTGCCCCACGACGAGACCGTGGAGGGGCTGCGCAAAAGGCTGTCCCAACGCCTCAAAGTACCCAAGGAA
 CGCCTGGCGCTGCTTACAAAGACACCCGGCTCAGTTCGGGGAAGCTGCAGGAATTCGGCGTGGGGGATG
 GGAGCAAGTTGACGCTCGTCCACGGTGAAGCTGGCCTCATGTCCAGGCCTCGAGGCCGGAGCAGTC
 CGTTATGCAAGCCCTGGAAAGTTTGACTGAGACCCAGCCCCAGCGACACCCGGGCCAGGCCGGCTGCC
 GGAGGAGGCTCCGAAATACAGATTGATTTTATTTAAGCGTCCGTGGCACCACAGGGACCCAGAGCC
 CAGAGAGGGGCGCGAGAGGCCAGGTCAGTGACTTTTTGTAGGCCGATCGCCTTGACCTGGCCCT
 GCGAGTTGGGGATCAGATGATGTTTGTACAATTGCAACTGGCAGCCCAACACGCCCACTCCAGCACCGC
 CATGTGCTGGCCGCGGCTGCCGAGCTGCTGCCGCTGCCCGGGGAGATCCAGCATAGCTACCCAGTAT
 CCTCACCTTGTCGGCCCGTGTCCAGTGGCCGCCGTGTCCCCCAGTATCCAGCAGCCCTTCTTCGCTGT
 GTCCCCCTCACCTGTACCGCTGGCACCTTCCAATCCCATGCAGCCTCCACGACTTGTCTGAGCAGACG
 GACTGTTCTCCACCCGCCAGCAGCAACACCACATCCACCCAGGCAGCAGCCCCACCCCGATCCCGCA
 AACCCGGTGCAGTCATTGAGAGCTTCGTGAACCACGCTCCAGGGGTCTTCTCAGGGACCTTCTCTGGCAC
 ACTGCACCCCACTGCCAGGATAGTAGTGGGGCGCCTCGCGTGACATCGGCACCATTCTGCAGATACTC
 AATGACCTCCTAAGTGCCACAAGGCATTACCAGGGCATGCCGCTCACTGACCCAGCTCCGCTGCCACG
 CGCAGTGCTCACCTGCCACAGCCCTGACCTCACCCCAAACTACCTCCTGTGAAAAGCTGGCAAC
 CCCATCACTGCTCCAGGGCCAGAGCCAGATCCGAATGTGCAAGCCCTGGAGACCGTCTGCGACAGACA
 GAGAACCCTGCCACAGCTGCAAGTGAACGCCTCCAGCTCCTGCTGCAGCAGAAGCGCTGCGAAGGA
 AGGCACGGCGGGACGCCGGGTCTTACCAGTGGACCCCAAGCCGAAAGCTGGTTCGTAGTGACAGCAG
 CAGCAGTGGGGTGGAGGTAGCCCCAGCGAGGCCACAGGCTTGGGCTCGACTTCGAGGACTCCGTTTGG
 AAGCTGAAGTCAACCCAGACATCCAGTCCGAGTTTGTGGTGGCT**TAA**

ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001191577
- Insert Size:** 1518 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001191577.1](#), [NP_001178506.1](#)

RefSeq Size: 1725 bp

RefSeq ORF: 1518 bp

Locus ID: 314623

UniProt ID: [D4AE48](#)

Cytogenetics: 7q11

Gene Summary: Facilitates ubiquitin-independent proteasomal degradation of polycomb protein CBX4 (By similarity). Plays a role in inhibiting the activity of glucokinase GCK and both glucose-induced and basal insulin secretion (PubMed:24187134).[UniProtKB/Swiss-Prot Function]