

Product datasheet for **RN217572**

Npc1 (NM_153624) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Npc1 (NM_153624) Rat Untagged Clone
Tag: Tag Free
Symbol: Npc1
Synonyms: Cdig2; SLC66A1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN217572 representing NM_153624
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCGCACCCCGCCCTCGGCCTCCTGCTGCTGCTGCTGCTGCGCCCTGCGCAGGTGTTCTCAC
AGTCCTGTGTCTGGTACGGAGAGTGTGGAGTCGCCTTTGGAGATAAGAGGTACAACCTGTGAATATTCGGG
CCCACCGAAACCCCTCCCAAAGGACGGCTATGACTTAGTGCAGGAACCTGTCCAGGACTCTTCTTTGGC
AATGTCAGTCTTTGCTGTGACGTTACGACGCTTACGACACTGAAGAGCAACCTGCAGCTGCCCTGCAGT
TTCTGTCCAGGTGCCGTATGTTTTATAACCTGATGACCCCTGTTTTGTGAGCTAACATGTAGCCCGCA
CCAGAGTCAGTTTCTGAATGTGACAGCAACTGAAGATTATTCGACCCCGAGACTCGGGAAAAATAAAACA
AATGTAAGGAATTAGAGTACTACGTCGGACGGAGCTTTGCGAATGCAATGTACAATGCCTGCCGAGATG
TGGAGGCGCCTCCAGTAATGAGAAGGCCTTAGGACTCCTGTGCGGAAGGGATGCCCGTGCCTGCAATGC
CACCAACTGGATTGAGTACATGTTCAACAAGACAACGGGCAAGCACCGTTTACCATCATCCCGTATTT
TCAGATCTTTGCGTTCTTGGAAATGGAACCCATGAGGAATGCCACCAAGGCTGCAACGAGTCTGTAGATG
AGGTACAGGGCCGTGTAGCTGCCAGGACTGCTCTGCCGTGCGGCCCCAAACCCAGCCCCACCGCC
CCCTGTGCCCTGGAGGATCTTAGGTTTGGACGCCATGTATGTCATCATGTGGGTCGCCTACATGGCGTTC
CTGGTCTGTTCTTTGGAGGACTGCTGGCAGTGTGGTGCCACAGAAGCGGTACTTTGTGTCGAGTACA
CCCCATTGACAGCAACATTGCCTTTTCTCGAATAGCAGTGACAAAGGGGAAGCCTCGTCTGCGACCC
ACTTGGTGTAGCGTTTGTGACTGTCTGAGGCGCATGTTCAAAAGTGGGGGCTTTCTGTGTCGGAAT
CCCACCTGCATCATTTTCTTCTCGTTGGTCTTCATTGCTGCGTCTTCTGCGCTGGTGTGTTGTCAGG
TCACCACCAATCCCGTGGAGCTCTGGTCAGCCCTCACAGTCAGGCCCGCTTGGAAAAGGAGTACTTTGA
CAAGCACTTTGGCCTTTCTTTCGTACGGAGCAGCTTATTATCCAGGCCCACTCCAGCGTCCATATC
TACGAGCCGTACCCTCCGGAGCCGATGTGCCCTTCGGGCTCCATTGAACAAAGAGATTCTGCACCAGG
TTCTGGACTTACAGATCGCCATTGAAAGTATCACTGCGTCTATAACAATGAAACCGTGACACTTACAGGA
CATCTGTGTGGCCCCCTCTCTCATAACAAGAAGTGCACCATTATGAGTGTGTTAAATTACTTCCAG
AACAGCCATGCGGTGCTGGACAACCAAGTAGGCGATGACTTCTTTGTCTATGCCGATTACCACACGCACT



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TTCTGACTGTGTGAGGGCTCCCGCCTCCTTGAATGATACGAGTTTGCTCCACGGCCCTTGCCTGGGCAC
 ATTTGGAGGACCTGTGTTCCCGTGGCTTGTGTTGGGCGGCTATGATGATCAGAATAACAATAATGCCACC
 GCGCTTGTGATTACCTTCCCTGTCAATAATTACTATAATGACACAGAGAAGCTCCAGAGGGCCTGGGCT
 GGGAGAAAGAATTTAACTTTGTGAAGAACTACAAGAATCAAATCTGACCATTTCTTCACTGCTGA
 GCGAAGCATTGAAGATGAACTCAATCGGAAAGCAACAGTGACGTATTCACCGTCTCATCAGCTATGCC
 GTGATGTTTCTGTACATTTCCCTCGCCCTGGGGACATCCAGAGCTGGAACAGGGTCTGGTGGATTCTA
 AAATCTCGCTGGCATTGCGGGGATCCTGATAGTGCTGAGCTCGGTGACCTGCTCCCTGGGCATCTTCAG
 CTACATCGGAATGCCACTGACCCTCATCGTCATTGAGGTATCCCGTTCCTGGTGCCTGGCTTGGGGTG
 GACAACATCTTATTCTAGTGCAGACCTACCAGAGAGATGAGCGTCTTCAGGAGGAGACGTTGGATCAGC
 AGCTGGGCAGGATCCTGGGGAAAGTGGCCCAACCATGTTCTTTTCGTCCTTCTCTGAGACCTCGGCATT
 TTTCTTTGGGGCCTGTCTCGATGCCAGCTGTCCACACCTTCTCTGTGTTGCGGGGATGGCCGCTCTC
 ATTGACTTCTCCTTCAAGATTACCTGCTTTGTGAGCTTCTTGGGTTAGATATTAAGAGACAAGAGAAAA
 ACCGTCTGGACATCCTGTGCTGTGTCAGAGGCCCTGACGACGACAAGAATCCCAAGCTCCGAAAGCTA
 CCTGTTCCGCTTCTTCAAAAACGCCTTTGCCCATTTCTGCTGACGGACTGGCTGCGGCCAGTTGTGATG
 GCCGTGTTTGTGGCATTCTGTCAATCAGTATTGCAAGTAGAACAAAGTAGAAATCGGATTGGATCAGT
 CTCTCTCGATGCCAAATGATTCTGATGTGATTGACTATTTCAAGTCACTCGGTGACGTACCTGCACCTCGGG
 CCCACCCGTGACTTCGTCCTGGAAGAGGGCTACAACACAGTTCCTCCGACAGGGGAGAACATGGTGTGC
 GGTGGCATGGGCTGTGACAATGACTCCCTGGTGCAGCAGATATTTAACGCAGCAGAGCTGGACACCTACA
 CCCGCGTAGGCTTCGCTCCCTCATCCTGGATTGATGATTACTTTGACTGGGTCTCACCGCAATCCTCCTG
 CTGTAGACTCTACAATGTCACTCACCAGTTCTGCAATGCTTCTGTGATTGACCCAACCTGTGTCCGCTGC
 AGACCTCTGACTCCAGAGGGCAAACAGAGGCCCTCAGGGGAAAGAATTCATGAAATTCCTGCCCATGTTCC
 TGTCTGATAACCCCAACCCCAAGTGTGGCAAAGGGGACATGCTGCTTACAGTTCTGCTGTTAACATCAT
 GGGAGATGACACTTACATTGGGGCCACTTACTTCATGACCTACCACACCATTTCTAAGACCTCTGCTGAT
 TATATCGATGCCCTGAAGAAAGCTCGGCTTATAGCCAGTAACATCACGGAACCATGCGTCTAAGGGGA
 GTGATTATCGTGTGTTTCTTACAGTGTGTTCTATGTCTTCTATGAACAATACCTGACCATTATTGATGA
 CGCCATCTTTAACCTAAGTGTGCTCTGGGCTCCATATTTCTCGTGACCTTGGTGGCTCTGGGCTGTGAA
 CTGTGGTCTGCGGTATCATGTGTCTCACCATAGCTATGATCCTGGTCAACATGTTTGGTGTATGTGGC
 TGTGGGGCATCAGTCTGAACGCTGTTTCTTGGTCAACTGGTGATGACCTGTGGCATTCTGTGGAGTT
 CTGCAGCCATAACAAGAGCTTTCACCATGAGCACCAAAGGAAGCAGAGTGAGCAGGGCGGAAGAGGCA
 CTGGCCCATAGGGTAGTTCTGTATTGAGTGAATCACACTTACAAAATTTGGAGGGATCGTGGTGTGG
 CCTTTGCCAAGTCTCAAATTTTGGAGATCTTTACTTCAGGATGACTTAGCCATGGTCTTACTTGGAGC
 TACTCACGGACTAATATTTCTTCCCGTCTTACTCAGTTACATAGGGCCATCAGTGAATAAAGCTAAAAGA
 CACACCACTCAAGAGCGGTACAAGGGACAGAGAGAGAACGGCTCCTCAATTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153624
- Insert Size:** 3837 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_153624.2](#), [NP_705888.2](#)

RefSeq Size: 5161 bp

RefSeq ORF: 3837 bp

Locus ID: 266732

Cytogenetics: 18p13

Gene Summary: cadmium-inducible gene; transcription upregulated by cadmium [RGD, Feb 2006]