

## Product datasheet for **RR217572**

### **Npc1 (NM\_153624) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Npc1 (NM\_153624) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Npc1  
**Synonyms:** Cdig2; SLC66A1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR217572 representing NM\_153624  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCGCGCACCCCGCCCTCGGCCTCCTGCTGCTGCTGCTGCTGCGCCTGCGCAGGTGTTCTCAC  
AGTCCTGTGTCTGGTACGGAGAGTGTGGAGTCGCCTTTGGAGATAAGAGGTACAACCTGTGAATATTCGGG  
CCCACCGAAACCCCTCCCAAAGGACGGCTATGACTTAGTGCAGGAACCTGTCCAGGACTCTTCTTTGGC  
AATGTCCAGTCTTTGCTGTGACGTTACGACGCTTACGACACTGAAGAGCAACCTGCAGCTGCCCTGCAGT  
TTCTGTCCAGGTGCCGTATGTTTTATAACCTGATGACCCCTGTTTTGTGAGCTAACATGTAGCCCGCA  
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TGGAGGCGCCTCCAGTAATGAGAAGGCCTTAGGACTCCTGTGCGGAAGGGATGCCCGTGCCTGCAATGC  
CACCAACTGGATTGAGTACATGTTCAACAAGACAACGGGCAAGCACCGTTTACCATCATCCCGTATTT  
TCAGATCTTTTCGGTTCTTGGAAATGGAACCCATGAGGAATGCCACCAAGGCTGCAACGAGTCTGTAGATG  
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TCACCACCAATCCCGTGGAGCTCTGGTCAGCCCTCACAGTCAGGCCCGCTTGGAAAAGGAGTACTTTGA  
CAAGCACTTTGGCCTTTCTTTTCGTACGGAGCAGCTTATTATCCAGGCCCACTCCAGCGTCCATATC  
TACGAGCCGTACCCTTCCGGAGCCGATGTGCCCTTCGGGCTCCATTGAACAAAGAGATTCTGCACCAGG  
TTCTGGACTTACAGATCGCCATTGAAAGTATCACTGCGTCTATAACAATGAAACCGTGACACTTACAGGA  
CATCTGTGTGGCCCCCTCTCTCATAACAAGAAGTGCACCATTATGAGTGTGTTAAATTACTTCCAG  
AACAGCCATGCGGTGCTGGACAACCAAGTAGGCGATGACTTCTTTGTCTATGCCGATTACCACACGCACT



TTCTGACTGTGTGAGGGCTCCCGCCTCCTTGAATGATACGAGTTTGCTCCACGGCCCTTGCCTGGGCAC  
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GCGAAGCATTGAAGATGAACTCAATCGGAAAGCAACAGTGACGTATTCACCGTCTCATCAGCTATGCC  
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GCCGTGTTTGTGGCATTCTGTCAATTCAGTATTGCAAGTAGTGAACAAAGTAGAAAATCGGATTGGATCAGT  
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CCCACCGTGTACTTCGTCCTGGAAGAGGGCTACAACACAGTTCCTCCGACAGGGGAGAACATGGTGTGC  
GGTGGCATGGGCTGTGACAATGACTCCCTGGTGCAGCAGATATTTAACGCAGCAGAGCTGGACACCTACA  
CCCGCGTAGGCTTCGCTCCCTCATCCTGGATTGATGATTACTTTGACTGGGTCTCACCGCAATCCTCCTG  
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CTGGCCACATGGGTAGTTCTGTATTAGTGAATCACACTTACAAAATTTGGAGGGATCGTGGTGTGG  
CCTTTGCCAAGTCTCAAATTTTTGAGATCTTTACTTCAGGATGACTTAGCCATGGTCTTACTTGGAGC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217572 representing NM\_153624  
 Red=Cloning site Green=Tags(s)

MGAAHPALGLLLLLLCPAQVFSQSCVWYGECEGVAFGDKRYNCEYSGPPKPLPKDGYDLVQELCPGLFFG  
 NVSLCCDVQQLQLKSNLQLPLQFLSRCPSCFYNLMTLFCELTCSPHQSQFLNVTATEDYDFDPETRENKT  
 NVKLEYVYGRSFANAMYNACRDVEAPSSNEKALGLLCGRDARACNATNWIEYMFNKDNGQAPFTIIPVF  
 SDLVSLGMPEMRNATKGCNE SVDEVTGPCSCQDCSAVCGPKPQPPPPVPWRILGLDAMYVIMWVAYMAF  
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 VMFLYISLALGHIQSWNRVLDISKISLGIAGILIVLSSVTCSLGIFSYIGMPLTLIVIEVIPFLVAVGV  
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 IDFLQLITCFVSFLGLDIKRQEKNRDLILCCVRGPDDGQESQASESYLFRFFKNAFAPFLLDWLRPVVM  
 AVFVGILSFSIAVVKVEIGLDQSLMPNDSYVIDYFKSLGQYLHSGPPVYFVLEEGYNYSSRRGQNMVC  
 GGMGCDNDSL VQQIFNAELDTYTRVGFAPSSWIDDYFDWVSPQSSCCRLYNVTHQFCNASVIDPTCVRC  
 RPLTPEGKQRPQKQKFMKFLPMFLSDNPNPKCGKGGHAAYSsavnimgDDTYIGATYFMTYHTILKTSAD  
 YIDALKKARLIASNITETMRSGSDYRVFPYSVFYVFEQYLTIIDDAIFNLVSLGSLFVTLVALGCE  
 LWSAVIMCLTIAMILVNMFGVMWLWGISLNAVSLVNLVMTCGISVEFCSHITRAFTMSTKGRSVRAEEA  
 LAHMGSSVFSGITLTKFGGIVVLAFAKSQIFEIFYFRMYLAMVLLGATHGLIFLPVLLSYIGSPVNAKAKR  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

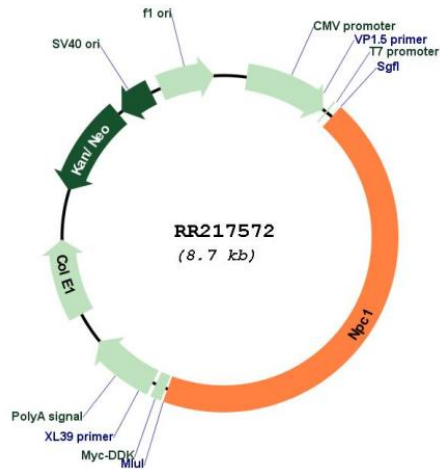
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_153624

ORF Size: 3834 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

MW: 143 kDa

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