

## Product datasheet for **RG200282**

### **NPC2 (NM\_006432) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NPC2 (NM\_006432) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NPC2  
**Synonyms:** EDDM1; HE1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200282 representing NM\_006432  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGTTTCCTGGCAGCTACATTCCTGCTCCTGGCGCTCAGCACCGCTGCCAGGCCGAACCGTGCAGT  
TCAAGGACTGCGTTCTGTGGATGGAGTTATAAAGGAAGTGAATGTGAGCCCATGCCCAACCAACCTG  
CCAGCTGAGCAAAGGACAGTCTTACAGCGTCAATGTCACCTTCACCAGCAATATTCAGTCTAAAAGCAGC  
AAGGCCGTGGTGCATGGCATCCTGATGGGCGTCCAGTTCCTTTCCATTCTGAGCCTGATGGTTGTA  
AGAGTGGAAATTAAGTCCCTATCCAAAAAGACAAGACCTATAGCTACCTGAATAAACTACCAGTAAAAG  
CGAATATCCCTCTATAAACTGGTGGTGGAGTGGCAACTTCAGGATGACAAAAACCAAGTCTTCTGTC  
TGGGAAATCCAGTACAGATCGTTTCTCATCTC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:** >RG200282 representing NM\_006432  
**Red=Cloning site Green=Tags(s)**

MRFLAATFLLLALSTAAQAEVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVTFTSNIQSKSS  
KAVVHGILMGVPVFPPIPEPDGCKSGINCPIQDKTYSYLNKLPVKSEYPSIKLVVEWQLQDDKNQSLFC  
WEIPVQIVSHL

**TRTRPLE - GFP Tag - V**

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3783\\_b03.zip](https://cdn.origene.com/chromatograms/ja3783_b03.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_006432

**ORF Size:** 453 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\\_006432.5](#)

**RefSeq Size:** 921 bp

**RefSeq ORF:** 456 bp

**Locus ID:** 10577

**UniProt ID:** [P61916](#)

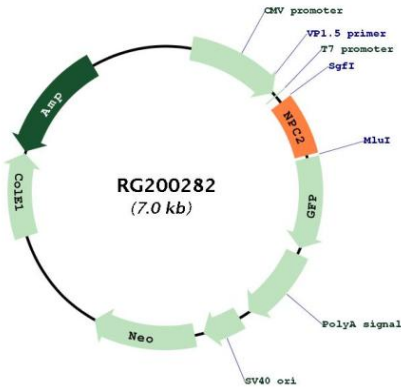
**Cytogenetics:** 14q24.3

**Domains:** ML

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** This gene encodes a protein containing a lipid recognition domain. The encoded protein may function in regulating the transport of cholesterol through the late endosomal/lysosomal system. Mutations in this gene have been associated with Niemann-Pick disease, type C2 and frontal lobe atrophy. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG200282