

## Product datasheet for **RN208234**

### **Nup85 (NM\_001025401) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nup85 (NM_001025401) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nup85
Synonyms:	Pcnt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN208234 representing NM\_001025401  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGAGCTCGACTGCGAGCCCGCAGTAACCTGGATTCCAGGTGTGAATTCGAAGAAGCAATGT  
 GTTTGACTGGGGCCAGGGGAGATGCTCCTATGTGAACTTCCTTCAACAAAACAGACAAATCAGAGAA  
 GGTCCCGAGCTGCCCTTTATTTATATCATAAGGAAAGATGTCGATGTTTACTCTCAAATTTGAGAAAA  
 CTCTTCAACGAATCCCATGGAATCTTCGTTGGCCTGCAAAGACTTGAGGAAGAACTGCCGGAAATCCA  
 GGAAAGCTCAATTGGTTCGAGTGAGTAAAAATTACCGTCACTTACGTCCTGTATGGAAGAAATGCA  
 CCAGGTTGCAATTGCTGCTAAAGACCCAGCCAGTGCCCGCAGTTCAGCAGTCAGGTCCTCATTTTGTCA  
 GCCATGGAGCTTATTTGGAACCTGTGCGAGATTCTTTTCATTGAAGTAGCTCCAGCTGGACCTCTCTCC  
 TCCATCTTCTGACTGGTCCGACTGCAGTGTGCGAGGTGGACAGTTTGTGAGCAGATGCTCTGGCGAG  
 TGACCACCAAGCAAGCATGAGAGCTTCTGGAACCTGGTACCGTCTTGGTGTTCAGGGCCGGCTGGAT  
 GAGGCCGACAAATGCTGTCAAAGAAGCTGATGCCAGCCCTCTTCTGCAGGCATGTGCCGCTCTTGG  
 GGGATCTGATGAGGACAATGCCATTCTCAGTCTGGCAACTCAGACGCTGACAGAGTTGGAGCTGAA  
 GTGGCAGCACTGGCGTGAGGAGTGTGAGCGACACTTGAAGACAACATTTGCAGCCAACCCCATCTG  
 GAGTCTCTGCAAGATCATGCTGGGGATGAGGCCACCTTGTGGAGCAGAAGGAGCTTATGAGCAACT  
 GGTACCATTTCTAGTACTCGGCTGCTGATTTCAACCCACAGTGAAGCCACTGACCTGCACTTGTAA  
 CGCCAGTCCAGCCTGGACATGTTTCTGGAGGTGAGAGCAGTCCAGAACCCTGGACAACATCTTGATG  
 GCTGCCTTTGAATTCGACATTCACCAAGTATCAAGGAGTGCAGCATTGCCCTGAGCAACTGGTGGTTCG  
 TAGCTCACCTCACAGACCTTTGGATCACTGCAGACTCTCCAGTACACAATCTCTATTTTGGTTCTAA  
 CATGAGAGAATTCTCTTCTGGAATATGCCTCAGGACTGTTTGTCTATCACAGCCTGTGGCAGCTGGGG  
 GTGGATTACTTTGACTACTGCCCGAGCTGGGCCGAGTTTCTTGGAGCTGCACATTGAGCGGATTCCTC  
 TCAACACAGAGCAGAAAGCTTTGAAGGTGCTGAGGATTTGTGAGCAGCGCAGATGACTGAACAAGTTGG  
 AAGCATCTGTAAGATCTTGCCATGAAGGCTGTTCTGTAATAATCGCTTGGGCTCAGCCCTCTCTGGAGC  
 ATCCGCGCAAAGATGCTGCCTTCGCCACACTCGTGTCCGACAGATTCTCCGGGATTACTGTGAAAGAG  
 GCTGCTTTTCTGACTTGGATCTCATTGACAATCTGGGGCCAGCCATGATGCTCAGTGACCGACTGACATT  
 TCTGGAAAGTACCGGGAGTCCACAGACTGTACGGGGAGAAGCGCTTTGGTGTGCTGCTCTCTTCTG  
 CTGTCCCTCATGACCTCTCAGATTGCACCCGTTCTTTCTGGATGACTCTGCTCACAGATGCCCTTCTCT  
 TTTTGGAAACAGAAGCAGGTGATTTTTTCAGCAGAGCAGACCTACGAGCTGATGCGATGCCTGGAAGACT  
 GGCTCCAGAAGGCCAGAGTGTGGTGAGCCCGACCCAGCGACTGCAGGATGACGACATAGAGACCACC  
 AAGGTGGAGATGCTGAGACTAGCTCTTGCCCGAATCTTGTCTGGGAATTATAAGGGAAGGCTCACTGG  
 AGGTTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001025401

**Insert Size:** 1971 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\\_001025401.1](#), [NP\\_001020572.1](#)

**RefSeq Size:** 2101 bp

**RefSeq ORF:** 1971 bp

**Locus ID:** 287830

**UniProt ID:** [Q4QQS8](#)

**Cytogenetics:** 10q32.1

**Gene Summary:** Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance. As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP96/Nup98 and NUP153 to the nucleus. The Nup107-160 complex seems to be required for spindle assembly during mitosis. NUP85 is required for membrane clustering of CCL2-activated CCR2. Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidylinositol 3-kinase-Rac-lammellipodium protrusion cascade. Involved in nephrogenesis.[UniProtKB/Swiss-Prot Function]