

## Product datasheet for **MC206144**

### **Rpn2 (BC046806) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rpn2 (BC046806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpn2
Synonyms:	1300012C06Rik; AV261018; Rpn-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC046806  
 GCGCGGGGAGAGGACGGCTTGGCAAGCAGGACCCGTGAGTGAGGTTTCGCACGCCGCGACTCAACTGCC  
 CAACTGCGGCTGCCGGGCACGGCCCTGCCAAGCGGGACCGCGGACTGACCTTTGCCGGGAGCCATT  
 CTGGCAAGTGGCGTGTGCCGGGGTCCCTGGCGTCCCCTCCGGCGCGCTTTGGAGCCACTCCCGGAGC  
 GGAAGTCTGCCTGCTCGGGTCCGGTGGACCTGCTCGGAGGAATGGCGCCGCGGGTTCAAGCGCTGC  
 TTCCTGTTGGCCCTGACAATCACTGCCAGCGTCCAGGCTGACCCCCACCCACTACCTACCAAGCAGG  
 ATGTGGAAGGCTGAAGGCCTCACTGGACCGCCCTTACAGATTTGGAGTCTGCCTTCTACTCCATCGT  
 GGGACTCAGCAGCCTTGGGGTACAGGTGCCAGATGTCAAGAAAGCGTGTACCTTCATCAAGTCCAACCTT  
 GATCCCAGCAACGTGGATTCTCTCTTATGCAGCCAGTCCAGCCAGGTCCTCTCAGGCTGTGAGATAT  
 CTGTTTCAAATGAGACCAAAGAGCTCCTGCTGGCAGCAGTGAGTGAAGACTCCCCATTGCCAGATCTA  
 CCATGCAGTTGCAGCACTCAGCGGGTTGGGCTTCCCTTGGCATCCAATGAAGCCCTCGGTGCCCTTACC  
 GCTCGCTCGGCAAGGAAGAGACTGTGCTAGCAACGGTCCAGGCTCTGCAGACAGCGTCCCACCTCTCC  
 AGCAGGCTGACCTGAGGAACATTGTAGAGGAGATTGAGGACCTTGTGCTCGGCTGGATGAACTAGGGG  
 TGTGTATCTGCAGTTTGGGAAGGACTGGAGCTCAGGGCGCTGTTTGTGCTGCCACCTACAAGCTCATG  
 GACCACGTGGGACCGAACCCTCATGAAGGAGGATCAGGTTATCCAGCTCATGAACACAATCTTACGCA  
 AGAAGAATTTGAGTCCCTCTCAGAAGCCTTCAAGTGTGGCTCTGCTGCTGCTGATTGTCCAGAAATCG  
 CTACCACGTACCAGTGGTGGTTGTGCCGAGGGCTCTACTTCTGACACTCAAGAACAGGCTATCCTGAGG  
 TTGAGGTCAGCAATGTTTTGTCTCAGCCTCTGGCTCAAGCTGCAGTGAAGCTGGAGCATGCTAAGTCGG  
 CGGCTACCAGGGTACCCTCCTGCGAAGACGCCCTTTTCGCTTGTGGGGAATGTTTTGAGCTAAACTT  
 CAAGAATGTTAACTTTCCAGTGGCTACTATGACTTCTCTGTCCGAGTTGAAGGTGACAGCCGTTACATT  
 GCAAACACTGTAGAGCTTCGAGTCAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCTTCCACTG  
 TGGATAAGGATCAGAGCATTGCACCCAAAACACCCGGGTGACCTACCCAGCCAAAGCCAAGGGTACATT  
 CATCGCAGACAGCCATCAGAATTTGCCCTGTTTTCCAGCTGGTAGATGTGAACACCGGTGCGGAGCTC  
 ACCCTCACAGACGTTTTGTTGACTTTCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCTGAGC  
 CAGATAACAAGAATGTATATAAGTTTGAAGTGGACACCTCTGAAAGGAAGATTGAATTTGACTCTGCCTC  
 TGGCACCTACACTCTACTTAATCATCGGGGATGCCACATTGAAGAACCAATCCTCTGGAACGTGGCT  
 GACGTGGTTATCAAGTCCCTGAGGAGGAAGCCCCCTCGACTGTGCTGTCCAGAGCCTGTTTACCCCAA  
 AACAGGAAATTCAGCACCTGTTCCGAGAGCCTGAGAAGAGGCCCCACAGTGGTGTCCAATACATTAC  
 GGCCTCATCCTCTCGCCCTGCTCCTGCTCTTGCAGTGTGGATCCGGATTGGAGCCAATGTCTCCAAC  
 TTCACATTTGCTCCTAGCACAGTTATCTCCACCTGGGACATGCTGCGATGCTGGCCTCATGTATATCT  
 ACTGGACTCAGCTCAACATGTTCCAGACCCTCAAGTACCTGGCTGCTCCTGGGACTGTGAGCTTTCTGGC  
 TGGCAACCGAATGCTGGCCAGCATGCAGTTAAGAGAACAGCACATTAGTTCCAGAAGAAGTCTGAAGAC  
 CCTGAAGGCTGAAATGAACATTTAAACAAGGAGTGGGGACAGTTTATGGTGTGAAAGGAAGAACTGGGGAC  
 ACAACAGGAGGGAGGAGATGCCTGTTTAAAGAGAAAAGCTGAGCTGTGCTTACATGTTTACTTGT  
 TTCTCACTTTTTGCTTACAGAGCAGACATGTTTGGGCCAGATTGTCTGTCCCTTTGCTTGTATGCCTG  
 GCAAGATGCTGTGAATATCCAGGCTACCCAGATGTTGTATTTGAAAAGTTGAAATCTGTAATTCATCAT  
 CAGCTTTGGAATAAAGAGAATGGTGGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** BC046806

**Insert Size:** 1896 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:** [BC046806](#), [AAH46806](#)

**RefSeq Size:** 2494 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 20014

**Cytogenetics:** 2 78.2 cM

**Gene Summary:** Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity.[UniProtKB/Swiss-Prot Function]