

Product datasheet for **RC226841**

Ribophorin II (RPN2) (NM_001135771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribophorin II (RPN2) (NM_001135771) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ribophorin II
Synonyms:	RIBIIR; RPN-II; RPNII; SWP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226841 representing NM_001135771
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACTGACACTGCTAGAGGATTGGTGAAGGGGATGGACATGGACCCAGAAAGGCCCTGCTGATTG
 TAGGCATCCCCATGGAGTGTAGTGAGGTGAAATTCAGGACACTGTGAAGGCAGGCTTACAGCCCTGTG
 CGCATACAGGGTCTAGGAGAATGTTCAGGAGGGAAGACAATGCCAAGGCACTTCTTATTGAACTGGCT
 GACACTGTCAATTACACTACTCTGCCAGTCACATAACCAGGAAAGGGTGGCTCCTGGGAAGTGGTGGTAA
 AACCCCGTAACCCAGATGATGAGTTTCTCAGTAGACTGAACTACTTCTGAAAGATGAGGGCCGAAGTAT
 GACAGATGTGGCCAGAGCCCTGGGATGTTGCAGCCTCCCTGCCGAGAGCCTGGATGCAGAGGTGATGCC
 CAAGTTAGATCCCCACCTTAGAGCCTCCGAAAGAAAGTATGTGGTACAGGAACTGAAAGTGTTCGG
 GAACTGCTTCCCCTAGCCAGGCGAAGAGACCTTTGAAGACTGGCTAGAGCAGGTCACTGAGATAATGCC
 CATATGGCAAGTGTCTGAGGTGGAGAAGAGGCGCGTTTCTGGAGAGCTTACGTGGGCTGCTCTGTCA
 ATCATGCGGGTGTCCAGGCCAACAACTACTCCATAACTGTGGAGCAGTGCCTTACGCCCTAAAGCAGA
 TCTTTGGGGATAAAGAGGACTTTAGAGCCTCTCAGTTTAGGTTTCTGCAGACCTCTCCGAAGATTGGAGA
 GAAAGTCTCCACTTCTGCTGCGCTTAGAGCCCTGCTGCAGAAAGCCGTGCACAAGAGCCCTTGTCA
 GTGCGCAGCACAGACATGATTCTGCTGAAACATCTCTTAGCTCGGGTCCGATGACCCCCGCCCTCAGGG
 GCAAGCTGGAGCTCTGGATCAGCGAGGGTGTCTCCCAATTTCTGGAGTTAATGAAGCTCATTGAGA
 TGAAGAAGAGTGGGAGAACAAGCAGGCAAGTGAAGAATAAGGAGAAGCCATCAGGGAGAGGCCGGGG
 GCCTCCGGTAGACAGGCAAGAGCAGAAGCCAGTGTCTGCACCTCAGGCCACCGTGCAGGCAAGGTCTT
 TTAGCGACAGCAGCCCCAGACCATAACAGGGAGGCTTACCCCAATTAGTGAACGCAGGCGGCTGTTAGG
 CAGTGAAAGCACTAGGGGAGAAGACCATTGGCCAGGCCACGTATCCCAAGGCTGAAAACCAGACTCCAGGC
 AGGGAGGGGCCACAGGCTGCAGGAGAGGAGTTGGAAACGAGGCAGGGGCTGGGGCCATGAGCCATCCCA
 AGCCCTGGGAAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226841 representing NM_001135771
 Red=Cloning site Green=Tags(s)

MALTLLEDWCKGMMDPRKALLIVGIPMECSEVEIQDVKAGLQPLCAYRVLGRMFRREDNAKAVFIELA
 DTVNYTTLPSHIPGKGGSEVVVKPRNPDEFLSRLNYFLKDEGRSMTDVARALGCCSLPAESLDAEVM
 QVRSPPLEPPKESMWYRKLKVFSGTASPSPEETFEDWLEQVTEIMPIWQVSEVEKRRRLLLESRLGPALS
 IMRVLQANNDISITVEQCLDALKQIFGDKEDFRASQFRFLQTSPIGKQVSTFLLRLEPLLQKAVHKSPLS
 VRSTDMIRLKHLLARVAMTPALRGKLELLDQRGCPPNFLELMKLIIRDEEWEENTEAVMKNKEKPSGRGRG
 ASGRQARAEASVSAPQATVQARSFSDSSPQTIQGGLPPLVKRRRLGSESTRGEDHGQATYPKAENQTPG
 REGPQAAGEELGNEAGAGAMSHPKPWET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4195_c09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135771

ORF Size: 1344 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 ORF: 1848 bp

Locus ID: 6185

UniProt ID: [P04844](#)

Cytogenetics: 20q11.23

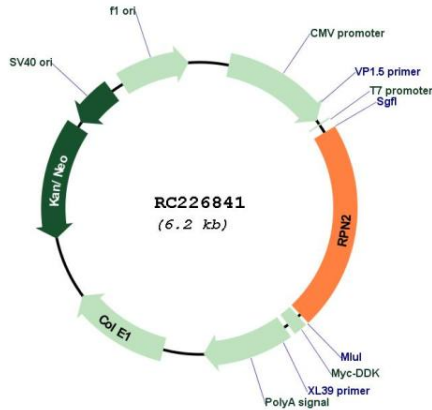
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 49.93 kDa

Gene Summary: This gene encodes a type I integral membrane protein found only in the rough endoplasmic reticulum. The encoded protein is part of an N-oligosaccharyl transferase complex that links high mannose oligosaccharides to asparagine residues found in the Asn-X-Ser/Thr consensus motif of nascent polypeptide chains. This protein is similar in sequence to the yeast oligosaccharyl transferase subunit SWP1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC226841