

Product datasheet for **RG205852**

Ribophorin II (RPN2) (NM_002951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribophorin II (RPN2) (NM_002951) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ribophorin II
Synonyms:	RIBIIR; RPN-II; RPNII; SWP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205852 representing NM_002951
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCGCGGGTTCAAGCACTGTCTTCTGTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGA
 CGCCCACTCACTACCTCACCAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAA
 TTTGGAATCTGCCTTCTACTCCATCGTGGGACTCAGCAGCCTTGGTGTCTCAGGTGCCAGATGCAAAGAAA
 GCATGTACCTACATCAGATCTAACCTTGATCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCA
 GCCAGGCCCTCTCAGGATGTGAGATCTCTATTTCAAATGAGACCAAAGATCTGCTTCTGGCAGCTGCAG
 TGAGGACTCATCTGTTACCCAGATCTACCATGCAGTTCAGCTCTAAGTGGCTTTGGCCTCCCTTGGCA
 TCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGAGGAGACTGTGCTGGCAACAGTCCAGG
 CTCTGCAGACAGCATCCCACCTGTCCCAGCAGGCTGACCTGAGGAGCATCGTGGAGGAGATTGAGGACCT
 TGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACTGAAACAACAGCGTTA
 TTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGACTGAGCCATCCATAAGGAGGATCAGGTCA
 TCCAGCTGATGAACGCGATCTTACGAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTACAGCGTGGCCTC
 TGCAGTGTGTCTCTCGCATAATCGCTACCAGTGCCAGTTGTGGTGTGCCTGAGGGCTCTGCTTCC
 GACACTCATGAACAGGCTATCTTGCAGTTGCAAGTCCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCA
 CTGTTAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGCTCCAGAAGACATCCTTACCCCC
 TGTAGGGGATGTTTTGAACTAAATTTTCAATGACAGTCAAATTTCCAGTGGTTATTATGACTTCTTGTG
 GAAGTTGAAGGTGACAACCGGTATATTGCAAATACCGTAGAGTCAAGATCTCCACTGAAGTTG
 GCATCACAAATGTTGATCTTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAAACCTCCCGGTGAC
 ATACCCAGCCAAAAGCCAAGGGCACATTCATCGCAGACAGCCACCAGAAGTTCGCCTTGTCTTCCAGCTG
 GTAGATGTGAACACTGGTGTGAACTCACTCCTACCAGACATTTGTCGACTCCATAACCAAGAAGACTG
 GCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAACAAGAAGCTGTACAAGTTTGAAGTGGATACCTCTGA
 AAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACACTCTCTACTTAATCATTGGAGATGCCACTTTG
 AAGAACCAATCCTCTGGAATGTGGCTGATGTGGTCAAGTCCCTGAGGAAGAAGCTCCCTCGACTG
 TCTTGTCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTTCCGCGAGCCTGAGAAGAGGCC
 CCCCACCGTGGTCCAATACATCACTGCCCTGATCCTCTCGCCGTGCTTCTGCTCTTCTGCTCTGTGG
 ATCCGGATTGGTCCAATGTCTCAACTCACTTTTGTCTCTAGCAGATTATATTTACCTGGGACATG
 CTGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTACCTGGC
 CATCTTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCAGCAGGCAGTCAAGAGAACAGCA
 CAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205852 representing NM_002951
 Red=Cloning site Green=Tags(s)

MAPPGSSTVFLALTIIASTWALTPHYLTKHDVERLKAASLDRPFTNLESAFYISIVGLSSLGAQVPDAK
 ACTYIRSNLDPSNVDSL FYAAQASQALSGCEISISNETKDLLAAVSEDSVVTQIYHAVAALSGFGLPLA
 SQEALSALTARLSKEETVLATVQALQTASHLSQQADLRSIVEEIEDLVARLDELGGVYLQFEEGLETTAL
 FVAATYKLMDHVGTPEPSIKEDQVIQLMNAIFSKKNFESLSEAFSVASAAAVLSHNRHYHVPVVVPEGSAS
 DTHEQAILRLQVTNVL SQPLTQATVKLEHAKSVASRATVLQKTSFTPVGDVFELNFMNVKFSGGYDFLV
 EVEGDNRYIANTVELRVKISTEVGITNVDLSTVDKQSIAPKTTTRVTPAKAKGTFIADSHQNFALFFQL
 VDVTGAEELTPHQTFVRLHNQKQGQEVVFAEPDNKNVYKFELDTSERKIEFDSASGTYTLYLIIIGDATAL
 KNPILWNVADVVIKFPPEEEAPSTVLSQNLFTPKQEQIHLFREPEKRPPTVVSNTFTALILSPLLLL FALW
 IRIGANVSNFTFAPSTIIFHLGHAAMLGLMYYVWTQLNMFQTLKYLAILGSVTFLAGNRMLAQAVKRTA
 H

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_002951

ORF Size: 1893 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_002951.2](#), [NP_002942.2](#)

RefSeq Size: 2509 bp

RefSeq ORF: 1896 bp

Locus ID: 6185

UniProt ID: [P04844](#)

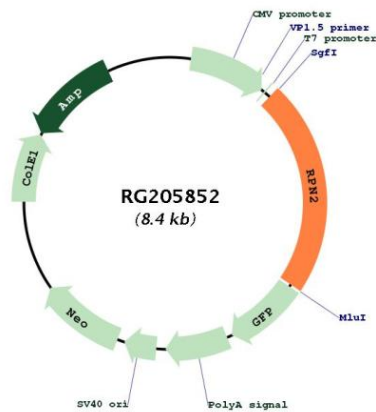
Cytogenetics: 20q11.23

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

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 RG205852