

Product datasheet for **RG226841**

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:	TurboGFP
Symbol:	RPN2
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:

>RG226841 representing NM_001135771
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCCGCGGGTTCAAGCACTGTCTTCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGA
 CGCCCACTCACTACCTCACCAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAA
 TTTGGAATCTGCCTTCTACTCCATCGTGGGACTCAGCAGCCTTGGTGTCTCAGGTGCCAGATGCAAAGATC
 TCTATTTCAAATGAGACCAAAGATCTGCTTCTGGCAGCTGTCACTGAGGACTCATCTGTTACCCAGATCT
 ACCATGCAGTTGCAGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTAC
 TGCTCGTCTCAGCAAGGAGGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCACCTGTCC
 CAGCAGGCTGACCTGAGGAGCATCGTGGAGGAGATTGAGGACCTTGTGTCTCGCTGGATGAACCGGGG
 GCGTGTATCTCCAGTTTGAAGAAGGACTGGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCAT
 GGATCATGTGGGACTGAGCCATCCATTAAAGGAGGATCAGGTCATCCAGCTGATGAACCGCATCTTCAGC
 AAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGTGGCCTCTGCAGCTGCTGTGCTCTCGCATAATC
 GCTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTCCGACACTCATGAACAGGCTATCTTGCG
 GTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGTTAAACTAGAACATGCTAAATCT
 GTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTACCCCTGTAGGGGATGTTTTTGAACAAATT
 TCGAAGCTCAAATTTCCAGTGGTTATTATGACTTCCCTGTGCGAAGTTGAAGGTGACAACCGGTATAT
 TGCAAAATCCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCTTCCACC
 GTGGATAAGGATCAGAGCATTGCACCAAACTACCCGGGTGACATACCCAGCCAAAGCAAGGGACAT
 TCATCGCAGACAGCCACCAGAACTTCGCCTTGTCTTCCAGCTGGTAGATGTGAACACTGGTGTCTGAAC
 CACTCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAG
 CCAGACAACAAGACGTGTACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCT
 CTGGCACCTACTCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGC
 TGATGTGGTCAAGTTCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCCAGAACCTTTTCACTCCA
 AAACAGGAAATTCAGCACCTGTTCCGCGAGCCTGAGAAGAGGCCCCACCCTGGTGTCCAATACATTCA
 CTGCCCTGATCCTCTCGCCGTTGCTTCTGCTCTCGCTCTGTGGATCCGGATTGGTCCAATGTCTCCAA
 CTTCACTTTTGTCTCTAGCACGATTATTTACCTGGGACATGCTGCTATGCTGGGACTCATGTATGTC
 TACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTACCTGGCCATCCTGGGCAGTGTGACGTTTCTGG
 CTGGCAATCGGATGCTGGCCAGCAGGAGTCAAGAGGATCGCTGCAGAGCAGAGCAGTAGATTGGCAAA
 ATATAGGACACTACGAACAGCACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226841 representing NM_001135771
 Red=Cloning site Green=Tags(s)

MAPPGSSTVFLALTIIASTWALTPHYLTKHDVERLKAASLDRPFTNLESAFYISIVGLSSLGAQVPDAKI
 SISNETKDLLLAIVEDSSVTQIYHAVAALSGFGLPLASQEALSALTARLSKEETVLATVQALQTASHLS
 QQADLRSIVEEIEDLVARLDELGGVYLQFEEGLETTALFVAATYKLMHDHVGTEPSIKEDQVIQLMNAIFS
 KKNFESLSEAFSVASAAAVLSHNRYHVPVVVPEGSASDTHEQAILRLQVTNVLSQLTQATVKLEHAKS
 VASRATVLQKTSFVPGDVFELNFMNVKFSGGYDFLVEVEGDNRYIANTVELRVKISTEVGITNVDLST
 VDKDQSIAPKTRVYTPAKAKGTFIADSHQNFALFFQLVDVNTGAELTPHQTFVRLHNQKTQEVVFFVAE
 PDKNRYKFEELDTSERKIEFDSASGTYTLYLIIGDATALKNPILWNVADVVIKFPPEEEAPSTVLSQNLFTP
 KQEIQLHFREPEKRPPTVVSNTFTALILSPLLLLALWIRIGANVSNFTFAPSTIIFHLGHAAMLGLMYV
 YWTQLNMFQTLKYLAILGSVTFLAGNRMLAQAVKRIAAEQSSRLAKYRTLRTAH

TRTRPLE - GFP Tag - V

Restriction Sites:

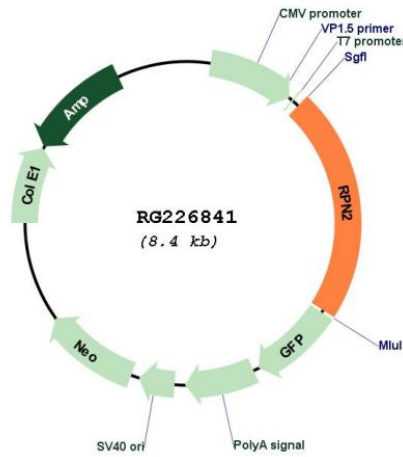
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001135771
 ORF Size: 1845 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:	<ol style="list-style-type: none"> 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_001135771.2 , NP_001129243.1
RefSeq Size:	2490 bp
RefSeq ORF:	1848 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]