

Product datasheet for **RG201554**

Ribophorin I (RPN1) (NM_002950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribophorin I (RPN1) (NM_002950) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ribophorin I
Synonyms:	OST1; RBPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201554 representing NM_002950
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCGCCAGCCCGGCTTGTCTCTGCTGTTGCTTGGACTTGGGCCCGCGCCGGCAGCG
 CCTCTCCGAGGCACCGCGCTGATCAATGAGGACGTGAAGCGCACAGTGGACCTAAGCAGCCACCTGGC
 TAAGGTGACGGCCGAGGTGGTCCTGGCGCACCTGGGCGCGGCTCCACGTCCCGAGCTACCTCTTCTCTG
 CTGGCTTTGGAGCCTGAGCTCGAGGCCCGGCTGGCGCACCTGGCGTGCAGGTAAAGGGAGAAGATGAGG
 AAGAGAACAATTTGGAAGTACGTGAAACAAAATTAAGGGTAAAAGTGGGAGATTCTTACAGTCAAGCT
 CCCAGTTGCTCTTGATCTGGGGCAAGATTTAGTCAATTGTGGAACAGTCTACACCCATGTGCTTCAT
 CCATATCCAACCCAGATCACCCAGTCAGAGAAACAGTTTGTGGTGTGGAGGGAACCATATTTCTACT
 CTCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCAA
 GCTGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCTTTCAGAGATGTGCCTGCCTATAGT
 CAGGATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCCTGACCATACCAGCATGACCCGAGTCA
 TTGAAGTCTCTACTGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCT
 TAAGGGGCTTTCTCACGCTATGATTACCAGAGACAGCCAGATAGTGGAAATATCCTCCATCCGTTCTTTT
 AAGACCATCCTTCTGCTGCTGCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCC
 ACCTCCTATTTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGTTCCTCTCTTTGGCGGGTGAA
 GACCCATTACATCGTTGGCTACAACCTCCAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCA
 CTGAAGATGAGGTTTGTGACCATGTGTTTGTGTAACAAGTATGATAGTTCTCTGACTGTGAAGATCATCC
 TGCTGAAGGAGCCAAGAACATTGAAATGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAGCTGCA
 CTACACCTATCTGGATACATTTGGCCGCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC
 ATTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCTGCTGGTGGTGG
 CGGCTTCTACATCCTGTTCTTACCCTTATCATCTATGTTTCGGCTGGACTTCTCCATCACCAAGGATCC
 AGCCGAGAAAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCAACAAGAGAATA
 GGCCTTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGACATCTCCACCCTCAACA
 GTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAAGTGCAGTGCAGTCCAGGCT
 GAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAAGCAATGCAGAAGCTGGATGCACAGTCAAGGAG
 CTGGTGTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAGACACGTACATTG
 AGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAGCTGGTACCAAGATCGACCACATCCTGGATGCCCT
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201554 representing NM_002950
 Red=Cloning site Green=Tags(s)

MEAPAAGLFLLLLGTWAPAPGSASSEAPPLINEDVKRTVDLSSHLAKVTAEVVLAHLGGGSTRATSFL
 LALEPELEARLAHLGVQVKGEEENLEVRKIKGKSGRFFTVKLPVALDPGAKISVIVETVYTHVLH
 PYPTQITQSEKQFVVFEGNHFYSPYPTKTQTMRVKLASRNVESYTKLGNPTRSEDLDDYGPFRDVPAYS
 QDTFKVHYENNSPFLTITSMTRVIEVSHWGNIAVEENVLDKHTGAVLKGPFSTRYDYQRPDPSGSISSIRSF
 KTIIPAAAQDVYRDEIGNVSTSHLLILDDSVEMEIRPRFPLFGGWKTHYIVGYNLPSEYLYNLGDQYA
 LKMRFDVDFVDEQVIDSLTVKIIILPEGAKNIEIDSPYEISRAPDELHYTYLDTFGRPVIVAYKKNLVEQH
 IQDIVVHYTFNKVLMQEPPLLVAAFYILFFTVIYVRLDFSIKDPAAEARMKVACITEQVLTLVNKRI
 GLYRHFDETVNRYKQSRDITLNSGKKSLETEHKALTSEIALLQSRLKTEGSDLCDRVSEMQKLDQVKE
 LVLKSAVEAERLVAGLKKDITYIENEKLSGKRQELVTKIDHILDAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002950

ORF Size: 1821 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_002950.2](#)

RefSeq Size: 2372 bp

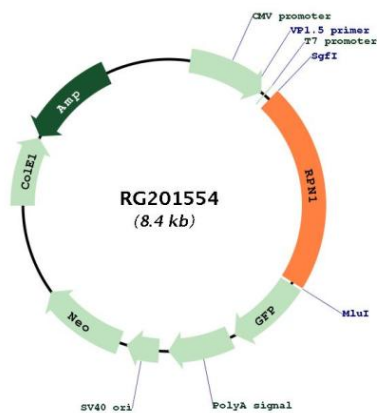
RefSeq ORF: 1824 bp

Locus ID: 6184

UniProt ID: [P04843](#)

Cytogenetics: 3q21.3
Domains: Ribophorin_I
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 forms part of the regulatory subunit of the 26S proteasome and may mediate binding of ubiquitin-like domains to this proteasome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201554