

Product datasheet for **RG206645**

RHPN1 (NM_052924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHPN1 (NM_052924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHPN1
Synonyms:	ODF5; RHOPHILIN; RHPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG206645 representing NM_052924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCTGGAGGAGAGGCCGGACGGCGCGGGCGCCGGCAGGAGAGCCCGGGCTGCAGGGCTGTGACT
 CCCTGACGCAGATCCAGTGCGGCCAGCTGCAGAGCCGCAGGGCCAGATTACCAGCAGATTGACAAGGA
 GCTGCAGATGCGGACGGGCGCTGAGAACCTCTACAGAGCCACCAGCAACAACCGGGTGGAGAGAGCGGT
 GCCCTGGAGCTGAGCTACGTCAACTCCAACCTGCAGCTGCTGAAGGAGGAGCTGGAGGAGCTCAGCGGT
 GCGTGGACCTGGCCGGCATGGGAGCGAAGCTGTACTGTCCCCATGATCCCCCTGGGCCTGAAGGAGAC
 CAAGGAGCTGGACTGGTCTACACCGCTGAAGGAGCTGATCTCAGTGCACCTTGGAGAGGACGGCGCTCC
 TACGAGGCAGAAATCAGGGAGCTGGAGGCCCTGCGGCAGGCCATGCGGACCCCGAGCCGGAATGAGTCGG
 GCCTGGAGCTGCTCACAGCCTATTACAACAGCTGTGCTTCTGGATGCGCGCTTCTCACCCCTGCCAG
 GAGCCTCGGGCTTCTTCCACTGGTACGACTCGCTTACTGGGGTCCCGCCAGCAGCGTGCCTGGCC
 TTGAGAAAGGGCAGCGTTCTCTTCAACATCGGTGCCCTCCACACGCAGATTGGGGCGCGCCAGGACCGCT
 CCTGCACCGAGGGTGCCTCGCCGCTATGGAGGCCCTCCAGAGGGCCGCTGGGGCCTTACGCTCCTGAG
 GGAGAACTTCTCCATGCGCCGAGCCAGACATGAGCGCTGCGTCCCTCTGCGCACTGGAGCAGCTCATG
 ATGGCCAGGCCAGGAATGTGTGTTTGGGGCCTCTCACACCTGCCTCCATGGCCCCCAAGACTGCC
 TGGCCAGCTGCGCTGGCGCAGGAGGCCCGCCAGGTGGCAGCCGAGTACAGGCTAGTGCACCGGACCAT
 GGCCAGCCACCCGTCCACGACTACGTGCCTGTCTCTGGACTGCCCTGGTGCATGTCAAGGCCGAGTAC
 TTCCGCTCCCTGGCCACTACCACGTAGCATGGCCCTCTGCGACGGCTCCCGAGCAGCCAGGGAGAGC
 TCCCACGCACGAGCAGGTCTTCTGCAGCCCCCACCTCCTTAAGCCCCGAGGCCCTGTGCTGCCGA
 GGAGCTGGAGGAGCGCAGGCAGCTTGGCAAGGCACACCTGAAGCGTGCCATCCTGGGGCAGGAGGAGCG
 CTGCGGCTGCACGCCCTGTGCCGCTCCTGCGCGAGGTGGACCTGCTTGGGCTGTGATCTCCAGACGC
 TGCAGCGCTCACTGGCCAAGTATGCGGAGCTCGACCGTGAAGTACTTCTGTGAGGCTGCCAGGCCCC
 GGACATCCAGCCTAAGACCCACCAGAAGCCAGAGGCCAGGATGCCACGCCTGCCAGGGGAAGGGGCT
 GACATCTCCATCGGCTGGGGCCCTGTCTGTGTTCTCAGCCAAGAACCAGGTGGCGGCTGGTGGGGCCG
 TCCACCTGACCCGAGGAGAGGGCGGCTTGGCCTCAGCTTCGGGGAGACTCGCTGTCTCATCGCTGC
 CGTCATTCCAGGGAGCCAGGCCGCGCGGCTGGCCTGAAGGAGGGCGACTACATTGTGTCAGTGAATGGG
 CAGCCATGCAGGTGGTGGAGACACGCGGAGGTGGTACGGAGCTGAAGGCTGCGGGAGAGCGGGGCCA
 GCCTGCAGGTGGTGTGCTGCTGCCAGCTCTAGACTGCCAGCTTGGGGGACCGCCGGCCGCTCCTGCT
 GGGCCCCAGGGGCTTCTAAGGAGCCAGAGGGAGCATGGTTGCAAGACCCCGCATCCACGTGGGCCAGT
 CCCCAGCCCTCCTCAACTGGAGCCGAAAGGCCAGCAGGGCAAGACTGGAGGCTGCCCCAGCCCTGTG
 CCCCAGTGAAGCCAGCTCCGCCCTATCCTTGAAGCACCCAGGGTGGCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206645 representing NM_052924
 Red=Cloning site Green=Tags(s)

MILEERPDGAGAGEESPRLQGCDSLTIQCGQLQSRRAQIHQQIDKELQMRTGAENLYRATSNNRVRETV
 ALELSYVNSNLQLLKEELEELSGGVDPRHGSEAVTVPMIPLGLKETKELDWSTPLKELISVHFGEEDGAS
 YEAEIRELEALRQAMRTPSRNESGLELLTAYYNQLCFLDARFLTPARSLGLFFHWYDSLTVGPAQQRALA
 FEKGSVLFNIGALHTQIGARQDRSCTEGARRAMEAFQRAAGAFSLLRENF SHAPSPDMSAASLCALEQLM
 MAQAQECVFEGLSPPASMAPQDCLAQLRLAQEAQVAEYRLVHRTMAQPPVHDYVPVSWTALVHVKA
 EYFRSLAHYHVAMALCDGSPATEGELPTHEQVFLQPPTSSKPRGPVLPQELEERRQLGKAHLKRAILGQEEA
 LRLHALCRVLRVLDLLRAVISQTLQRSLAKYAELDREDDFCEAAEAPDIQPKTHQKPEARMPRLSQKGP
 DIFHRLGPLSVFSAKNRWRLVGPVHLTRGEGGFGLTLRGDSPVLI AAVIPGSQAAAAGLKEGDYIVSVNG
 QPCRWRHAEVVELKAAGEAGASLQVVSLLPSSRLPSLGDRRPVLLGPRGLLSQREHGCKTPASTWAS
 PRPLLNWSRKAQQGKTGGCPQPCAPVKPAPPSSSLKHPGWP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_052924

ORF Size: 2010 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_052924.3](#)

RefSeq Size: 3795 bp

RefSeq ORF: 2013 bp

Locus ID: 114822

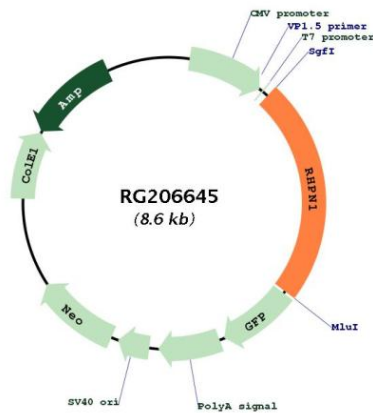
UniProt ID: [Q8TCX5](#)

Cytogenetics: 8q24.3

Domains: HR1, PDZ, BRO1

Gene Summary: Has no enzymatic activity. May serve as a target for Rho, and interact with some cytoskeletal component upon Rho binding or relay a Rho signal to other molecules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206645