

## Product datasheet for **RG207871**

### WRCH1 (RHOU) (NM\_021205) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WRCH1 (RHOU) (NM_021205) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WRCH1
Synonyms:	ARHU; CDC42L1; G28K; hG28K; WRCH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207871 representing NM_021205 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCCCGCAGCAGGGGACCCCGGTTCCCGACCGCTGCGAGGCGCCTCCGGTGCCGCCGCTCGGG  
AGCGCGGTGGACGCGGGGACGCGGGCCTGGGGAGCCGGGGGCCGGGGCGTGCGGGGGTGCCGAGGG  
GCGCGCGTCAAGTGCCTGCTGGTCGGCGACGGCGGGTGGCAAGACGAGCCTGGTGGTGAAGTACACC  
ACCAACGGCTACCCACCGAGTACATCCCTACTGCCTTCGACAATTCTCCGCGGTGGTGTCTGTGGATG  
GGCGGCCCGTGAGACTCCAACCTGTGACTGCGGACAGGATGAATTTGACAAGCTGAGGCCTCTCTG  
CTACACCAACACAGACATCTTCTGCTCTGCTTCAAGTGTGAGCCCTCATCCTCCAGAACGTCAGT  
GAGAAATGGGTGCCGGAGATTGCATGCCACTGTCCAAAGCCCCATCATCCTAGTTGGAACGCAGTCGG  
ATCTCAGAGAAGATGTCAAAGTCTCATTGAGTTGGACAAATGCAAAGAAAGCCAGTGCCTGAAGAGGC  
GGCTAAGCTGTGCGCCGAGGAAATCAAAGCCGCTCCTACATCGAGTGTTCAGCCTTGACTCAAAAAAAC  
CTCAAAGAGGTCTTTGATGCAGCCATCGTCGCTGGCATTCAATACTCGGACACTCAGCAACAGCCAAAGA  
AGTCTAAAAGCAGGACTCCAGATAAAATGAAAAACCTCTCAAGTCTGGTGAAGAAGTACTGCTGTT  
CGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207871 representing NM\_021205  
 Red=Cloning site Green=Tags(s)

MPPQQGDPAFPDRCEAPPVPPRRERGGRRGGRGPGEGGRGRAGGAEGRGVKCVLVGDGAVGKTSLVVSYT  
 TNGYPTEYIPTAFDNFSAVVSVDRPVRLLQLCDTAGQDEFDKLRPLCYTNTDIFLLCFVSVSPSSFQNV5  
 EKWPPEIRCHCPKAPIILVGTQSDLREDVKVLIELDKCKEKPVEEAAKLCAEEIKAASYIECSALTQKN  
 LKEVFDAAIVAGIQYSDTQQQPKKSKSRTPDKMKNLKSWSWKYCCFV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021205

**ORF Size:** 774 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\\_021205.6](#)

**RefSeq Size:** 4369 bp

**RefSeq ORF:** 777 bp

**Locus ID:** 58480

**UniProt ID:** [Q7L0Q8](#)

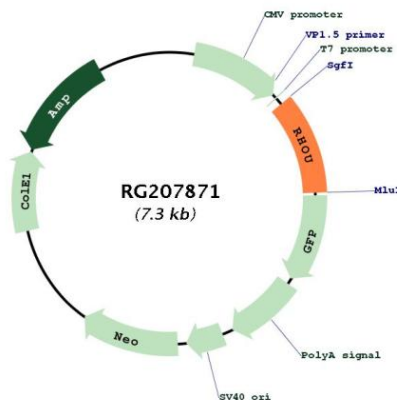
**Cytogenetics:** 1q42.13

**Domains:** ras, RAN, RAS, RHO, RAB

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the Rho family of GTPases. This protein can activate PAK1 and JNK1, and can induce filopodium formation and stress fiber dissolution. It may also mediate the effects of WNT1 signaling in the regulation of cell morphology, cytoskeletal organization, and cell proliferation. A non-coding transcript variant of this gene results from naturally occurring read-through transcription between this locus and the neighboring DUSP5P (dual specificity phosphatase 5 pseudogene) locus.[provided by RefSeq, Mar 2011]

### Product images:



Circular map for RG207871