

## Product datasheet for **RG201524**

### **RALBP1 (NM\_006788) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RALBP1 (NM_006788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RALBP1
Synonyms:	RIP1; RLIP1; RLIP76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201524 representing NM\_006788  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACTGAGTGCTTCCTGCCCCACCAGCAGCCCAAGTGAACACCGCAGGGTGGAGCATGGCAGCGGGC  
 TTACCCGACCCCGACTCTGAAGAGATCAGCCCTACTAAGTTTCTGGATTGTACCGCACTGGCGAGCC  
 CTCACCTCCCATGACATCCTCCATGAGCCTCCTGATGTAGTGTCTGATGATGAGAAAGATCATGGGAAG  
 AAAAAAGGAAATTTAAGAAAAAGAAAAGAGGACTGAAGGCTATGCAGCCTTTCAGGAAGATAGCTCTG  
 GAGATGAGGCAGAAAGTCTTCTAAAAAAGAGGTCCAAGGGAATCCATGTTTTCAAGAAGCCAGCTT  
 TTCTAAAAAGAAGAAAAGGATTTTAAAAAAGAGAAAACCCAAAGAAGAAAAGCATAAAGAAGAAAAG  
 CACAAAGAAGAAAACATAAAGAGAAGAAGTCAAAGACTTGACAGCAGCTGATGTTGTTAAACAGTGGA  
 AGGAAAAGAAGAAAAGAAAAGCCAATTCAGGAGCCAGAGGTGCCTCAGATTGATGTTCCAATCTCAA  
 ACCCATTTTTGGAATTCCTTTGGCTGATGCAGTAGAGAGGACCATGATGTATGATGGCATTTCGGCTGCCA  
 GCCGTTTTCCGTGAATGTATAGATTACGTAGAGAAGTATGGCATGAAGTGTGAAGGCATCTACAGAGTAT  
 CAGGAATTAATCAAAGGTGGATGAGCTAAAAGCAGCCTATGACCGGGAGGAGTCTACAAACTTGGGAAG  
 CTATGAGCCTAACACTGTAGCCAGTTTGTGTAAGCAGTATTTGCGAGACCTTCCAGAGAATTTGCTTACC  
 AAAGAGCTTATGCCAGATTTGAAGAGGCTTGTGGGAGGACCACGGAGACTGAGAAAAGTGCAGGAATTC  
 AGCGTTTACTCAAAGAACTGCCAGAATGTAAGTATCTTCTGATTTCTTGGCTCATTGTGCACATGGACCA  
 TGTCATTGCAAAGAACTGGAACAATAAATGAATATACAGAACATTTCTATAGTGCTCAGCCAACTGTG  
 CAGATCAGCAATCGAGTCTGTATGTGTTTTTACACATGTGCAAGAAGTCTTTGGAAATGTGGTACTAA  
 AGCAAGTATGAAACCTCTGCGATGGTCTAACATGGCCACGATGCCACGCTGCCAGAGACCCAGCGGG  
 CATCAAGGAGGAGATCAGGAGACAGGAGTTTCTTTTGAATTGTTTACATCGAGATCTGCAGGGTGGGATA  
 AAGGATTTGTCTAAAGAAGAAAGATTATGGGAAGTACAAAGAATTTTGACAGCCCTCAAAAAGAAAAGTGA  
 GAGAAGCTAAAAGACAGGAGTGTGAAACCAAGATTGCACAAGAGATAGCCAGTCTTTCAAAAAGAGGATGT  
 TTCAAAGAAGAGATGAATGAAAATGAAGAAGTTATAAATATTCTCCTTGCTCAGGAGAATGAGATCCTG  
 ACTGAACAGGAGGAGCTCCTGGCCATGGAGCAGTTTCTGCGCCGGCAGATTGCCTCAGAAAAGAAGAGA  
 TTGAACGCCTCAGAGCTGAGATTGCTGAAATTCAGAGTCGCCAGCAGCACGGCCGAAGTGAAGTGAAG  
 GTACTCCTCCGAGAGCGAGAGCGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG  
 AGACAGAACGAAGAGCTGAAAATAAAGAACAATCATTTGAATCAAGCAATTCATGAGGAGCGCAGGCCA  
 TCATCGAGCTGCGGTGCAGCTGCGGCTGCTCCAGATGCAGCGAGCCAAGGCCGAGCAGCAGGCGCAGGA  
 GGACGAGGAGCCTGAGTGGCGGGGGTCCCGTCCAGCCGCCAGAGACGGCGTCTTGAGCCAAAAGCA  
 GCTAAAGAGCAGCCAAAGGCAGGCAAGGAGCCGCAAGCCATCGCCAGCAGGGATAGGAAGGAGAGCT  
 CCATC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG201524 representing NM\_006788  
Red=Cloning site Green=Tags(s)

MTECFLPPTSSPSEHRRVEHGSLTRTPSSEEISPTKFPGLYRTGEPSPPHDILHEPPDVVSDEKDHGK  
 KKGKFKKKEKRTEGYAAFQEDSSGDEAESPSKMKRSKGIHVFKKPSFKKKEKDFKIKEKPKEEKHKEEK  
 HKEEKHKEKSSKDLTAADVVKQWKEKKKKKPIQEPEVPQIDVNLKPIFGIPLADAVERTMMYDGIRLP  
 AVFRECIDYVEKYGMKCEGIYRVSGIKSVDELKAAAYDREESTNLEDYEPNTVASLLKQYLRDLPENLLT  
 KELMPRFEEACGRTTETEKVQEFQRLKELPECNVLLISWLIVHMDHVIAKELETMNIQNISIVLSPTV  
 QISNRVLYVFFTHVQELFGNVVLKQVMKPLRWSNMATMPTLPETQAGIKEEIRRQFLLNCLHRDLQGGI  
 KDLSKEERLWEVQRILTALKRKLREAKRQECETKIAQEIASLSKEDVSKEEMNENEVINILLAQENEIL  
 TEQEELLAMEQLRQRQIASEKKEIERLRAEIAEIQSRQQHGRSETEEYSSESESESEDEEELQIILEDLQ  
 RQNEELEIKNNHLNQAIHEEREAIIELRVQLRLLQMQRAKAEQQAQEEPEWRGAVQPPRDGVLEPKA  
 AKEQPKAGKEPAKPSRDRKETS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006788

**ORF Size:** 1965 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\\_006788.4](#)

**RefSeq Size:** 4368 bp

**RefSeq ORF:** 1968 bp

**Locus ID:** 10928

**UniProt ID:** [Q15311](#)

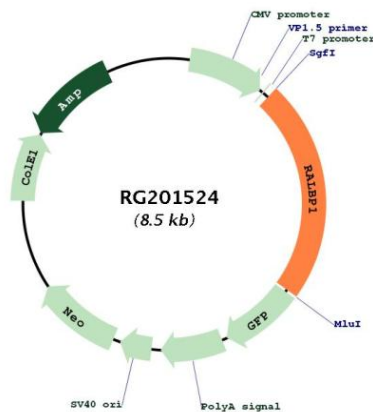
**Cytogenetics:** 18p11.22

**Domains:** RhoGAP

**Protein Pathways:** Pancreatic cancer, Pathways in cancer

**Gene Summary:** RALBP1 plays a role in receptor-mediated endocytosis and is a downstream effector of the small GTP-binding protein RAL (see RALA; MIM 179550). Small G proteins, such as RAL, have GDP-bound inactive and GTP-bound active forms, which shift from the inactive to the active state through the action of RALGDS (MIM 601619), which in turn is activated by RAS (see HRAS; MIM 190020) (summary by Feig, 2003 [PubMed 12888294]).[supplied by OMIM, Nov 2010]

### Product images:



Circular map for RG201524