

Product datasheet for **RG217830**

REPS2 (NM_001080975) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REPS2 (NM_001080975) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	REPS2
Synonyms:	POB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG217830 representing NM_001080975
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**

ATGTAGAGCGCGCAGCGCGCGCGCGCGCGCGCGCAGCGCAGCGCAGCGCGCGCGGGGGGCTGTGGCTCCG
GGCCGCCCGCGTGTCTGCTGAGCGAGGGCGAGCAGCAGTGTCTACTCCGAGCTCTTCGCGCGCTGTGCCG
CGCCGCGGGCGGGGGCCCCGGGTCTGGCCCCCGAGGCCGCCAGAGTCGCCCCGGGCACGGCCACTGCG
GCCGCCGGCCCCGTGGTGACCTGTTTCGGGCATCGCAGCTGCCCGCCGAGACGCTGCACCAGATCACAG
AACTGTGTGGTGCAAAGCGGGTTGGTTATTTTGGTCCAACACAGTTTTACATTGCCCTGAAATTAATTGC
TGCAGACAATCTGGCCTCCCGGTACGGATAGAGAGTATTAAATGTGAATTGCCTCTGCCTCGCTTTATG
ATGTCAAAGAATGATGGTGAGATACGATTTGGGAACCCAGCTGAGCTGCATGGAACTAAGTTTCAGATT
CATATTTAACTACAGAAAAAATTCTTTCAAAGAATGGACGATGAGGATAAACAGGAAACACAGTCTCC
CACGATGTACCCCTCGCTCCCTCCTTCTTCCCCGCCTCATTACCAGAGGGTGCCCTTGAGCCATGGC
TACAGCAAACTCGGGAGCAGCGCAGAACAGATGCATCCAGCACCTTATGAAGCTAGGCAGCCCCTTGTCC
AGCCCCGAGGGATCCTCATCAGGGGGGCCAGGAACCAAGCCCCCTTCGGCATCAGGCTTCCTTATCCGGTC
CTTTTCAGTGGAGAGGGAATACAGGATAACACAGAGTTACCCCGACGAAACCTGGAGGATAACAGAAGAA
CAGCGCGAGTACTATGTCAATCAGTTCGATCCCTTCAGCCAGACCCAAGCTCTTTCATTTCAGGTTCTG
TGCCCAAAGAATTTCTTCAACAAATCAAAGCTTTCCATTCCAGAAGTCTCCTATATATGGGAGCTTAGTGA
TGCTGACTGTGATGGAGCCCTGACCCTGCCTGAGTTCTGTGCTGCGTTTCATCTCATTGTGGCTCGGAAG
AACGGCTACCCATTGCCTGAGGGCCTCCCTCAAACCTCTGCAGCCAGAATACCTGCAGGCAGCTTTTCCTA
AGCCCAAATGGGACTGTCAATTATTTGATTCTTATTCTGAGTCACTGCCGGCAAATCAACAACCTCGTGA
CTTGAATCGGATGGAGAAGACATCTGTTAAAGACATGGTGACCTTCTGTCCCTAACCAGGATGTAAC
AGTGATGACAAACAAGCTTTGAAAAGTACTATCAATGAAGCCTTACCAAAGGACGTGTCTGAGGATCCAG
CAACTCCAAGGATTCCAACAGTCTCAAAGCAAGACCAAGATCCAGATCTTACTCTAGCACCTCCATAG
AGAGGCCATGAAAAGGGGCGAGGACCCTCCACCCCGCCACCTCGGCCACAGAAAACCCATTCCAGAGCC
TCCTCCTTGATCTGAATAAAGTCTTCCAGCCAGTGTGCCAGCTACCAAGTCAGGATTGTTACCCCCAC
CACCTGCGCTCCCTCCAAGACCTTGTCATCACAGTCTGAACAAGTGTGCGAGGCCGAGTTACTCCACA
GCTGAGCAGAGCCCCATCCCAGGCTGCAGAAAGTAGTCCAGCAAAGAAGGATGTAAGTGTATTCTCAGCCA
CCATCAAAGCCATTTCGTAGGAAATTCAGACCAGAAAACCAAGCTACAGAAAACCAAGAGCCTTCCACTG
CTGCAAGTGGGCCAGCTTCTGCGGCAACCATGAAACCGCATCCAACAGTCCAAAAGCAGTCTTCAAACA
GAAGAAGGCCATTCAAAGTCTATCCGCAAAAAATAAAGAGGCAACGCAGTGTGGCTCGGCTGAACAGT
GAGTCCAGCAGCAGCTCAAGGAGGTTTCATCAAGAACGAATTGCATTGGAAAACCAATTGGAACAACCTC
GTCCGGTCACTGTGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217830 representing NM_001080975
 Red=Cloning site Green=Tags(s)

MEAAAAAAAAAAAAAGGGCGSGPPPLLLSEGEQQCYSELFARCAGAGGGPGSGPPEAARVAPGTATA
 AAGPVADLFRASQLPAETLHQITELCGAKRVGYFGPTQFYIALKLIAAQSGLPVRIESIKCELPLPRFM
 MSKNDGEIRFGNPAELHGTVQIPYL TTEKNSFKRMDDKQETQSPTMSPLASPPSSPPHYQRVPLSHG
 YSKLRSSAEQMHPAPYEARQPLVQPEGSSGGPGTKPLRHQASLIRSFVERELQDNSSYPDEPWITEE
 QREYYVNQFRSLQPDPSFISGSVAKNFFTKSKLSIPELSYIWELSDADCDGALTLPFCFAFHLIVARK
 NGYPLPEGLPPTLQPEYLQAAFPKPKWDCQLFDSYSESLPANQQPRDLNRMEKTSVKDMADLPVPNQDVT
 SDDKQALKSTINEALPKDVSEDPATPKDSNSLKARPRSRSYSSTIEEAMKRGEDPPTPPRPQKTHSRA
 SSLDLNKVFQPSVPATKSGLLPPPALPPRPCPSQSEQVSEAELLPQLSRAPSQAESSPAKKDVLYSQP
 PSKPIRRKFRPENQATENQEPSTAASGPASAATMKPHPTVQKQSSKQKKAQTAKRNKEANAVLARLNS
 ELQQQLKEVHQERIALENQLEQLRPVTVL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080975

ORF Size: 1977 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_001080975.2](#)

RefSeq Size: 7961 bp

RefSeq ORF: 1980 bp

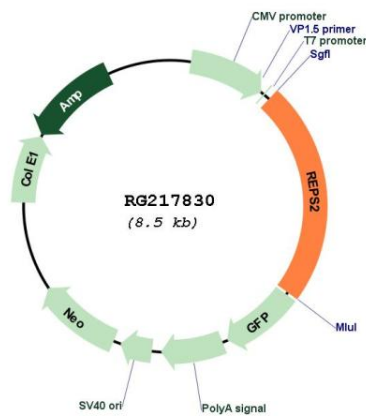
Locus ID: 9185

UniProt ID: [Q8NFH8](#)

Cytogenetics: Xp22.2

Gene Summary: The product of this gene is part of a protein complex that regulates the endocytosis of growth factor receptors. The encoded protein directly interacts with a GTPase activating protein that functions downstream of the small G protein Ral. Its expression can negatively affect receptor internalization and inhibit growth factor signaling. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217830