

Product datasheet for **RC217830**

REPS2 (NM_001080975) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REPS2 (NM_001080975) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	REPS2
Synonyms:	POB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217830 representing NM_001080975
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCGCGCAGCGCGCGCGCGCGCGCGCAGCGGACGCGGACGCGGCGGCGGGGCTGTGGCTCCG
GGCGCGCGCGCTGCTGCTGAGCGAGGGCGAGCAGCAGTGCTACTCCGAGCTCTTCGCGCGCTGTGCCG
CGCGCGGGCGGGGGCCCCGGGTCTGGCCCCCGAGGCCGCCAGAGTCGCCCCGGGCACGGCCACTGCG
GCCGCGGCCCCGTGGTGACCTGTTTCGGGCATCGCAGCTGCCGCGGAGACGCTGCACCAGATCACAG
AACTGTGTGGTGCAAAGCGGGTTGGTTATTTTGGTCCAACACAGTTTTACATTGCCCTGAAATTAATTGC
TGCAGACAATCTGGCCTCCCGGTACGGATAGAGAGTATTAAATGTGAATTGCCTCTGCCTCGCTTTATG
ATGTCAAAGAATGATGGTGAGATTACGATTTGGGAACCCAGCTGAGCTGCATGGAACTAAGTTTCAGATT
CATATTTAACTACAGAAAAAATTCTTCAAAAGAATGGACGATGAGGATAAACAGGAAACACAGTCTCC
CACGATGTCACCCCTCGCCTCCCTCCTTCTTCCCCGCCTCATTACCAGAGGGTGCCCTTGAGCCATGGC
TACAGCAAATGCGGAGCAGCGCAGAACAGATGCATCCAGCACCTTATGAAGCTAGGCAGCCCCTTGTCC
AGCCCCAGGGATCCTCATCAGGGGGCCAGGAACCAAGCCCCCTCGGCATCAGGCTTCCTTATCCGGTC
CTTTTCAGTGGAGAGGGAACTACAGGATAACACAGAGTTACCCCGACGAAACCTGGAGGATAACAGAAGAA
CAGCGCGAGTACTATGTCAATCAGTTCGATCCCTCTCAGCCAGACCCAAGCTCTTTCATTTCAGGTTCTG
TGCCCAAAGAACTCTTCAACAAATCAAAGCTTTCCATTCCAGAAGCTCTCCTATATATGGGAGCTTAGTGA
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AACGGCTACCCATTGCCTGAGGGCCTCCCTCCAACTCTGCAGCCAGAATACCTGCAGGCAGCTTTTCCTA
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TCCTCCTTGATCTGAATAAAGTCTTCCAGCCAGTGTGCCAGCTACCAAGTCAGGATTGTTACCCCCAC
CACCTGCGCTCCCTCCAAGACCTTGTCCATCACAGTCTGAACAAGTGTGCGAGGGCCGAGTTACTCCACA
GCTGAGCAGAGCCCCATCCCAGGCTGCAGAAAGTAGTCCAGCAAAGAAGGATGTAAGTATTCTCAGCCA
CCATCAAAGCCCATTCGTAGGAAATTCAGACCAGAAAACCAAGCTACAGAAAACCAAGAGCCTTCCACTG
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GAAGAAGGCCATTCAAATGCTATCCGCAAAAATAAAGAGGCAAAACGCAGTGTGGCTCGGCTGAACAGT
GAGTCCGACGAGCAGCTCAAGGAGGTTTCATCAAGAACGAATTGCATTGGAACCAATTGGAACAACCTC
GTCGGGTCACTGTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217830 representing NM_001080975
 Red=Cloning site Green=Tags(s)

MEAAAAAAAAAAAAAGGGCGSGPPPLLLSEGEQQCYSELFARCAGAAGGGPGSGPPEAARVAPGTATA
 AAGPVADLFRASQLPAETLHQITELCGAKRVGYFGPTQFYIALKLIAAQSGLPVRIESIKCELPLPRFM
 MSKNDGEIRFGNPAELHGTVQIPYLTTEKNSFKRMDDEDKQETQSPMTSPLASPPSSPPHYQVRVPLSHG
 YSKLRSSAEQMHPAPYEARQPLVQPEGSSSGGPGTKPLRHQASLRSFSVERELQDNSSYPDEPWRTTEE
 QREYYVNQFRSLQDPSSFISGSVAKNFFTKSKLSIPELSYIWELSDADCGLTLPEFCAAFHLIVARK
 NGYPLPEGLPPTLQPEYLQAAFPKPKWDCQLFDSYSESLPANQQPRDLNRMEKTSVKDMADLPVPNQDVT
 SDDKQALKSTINEALPKDVSEDPATPKDSNSLKARPRSRSYSSTISIEAMKRGEDPPTPPRPQKTHSRA
 SSLDLNKVFQPSVPATKSGLLPPPALPPRPCPSQSEQVSEAEALLPQLSRAPSQAESSPAKKDVLYSQP
 PSKPIRRKFRPENQATENQEPSTAASGPASAATMKPHPTVQKQSSKQKKAQTAKRNKEANAVLARLNS
 ELQQQLKEVHQERIALENQLEQLRPVTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_c03.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001080975.2](#)

RefSeq Size: 7961 bp

RefSeq ORF: 1980 bp

Locus ID: 9185

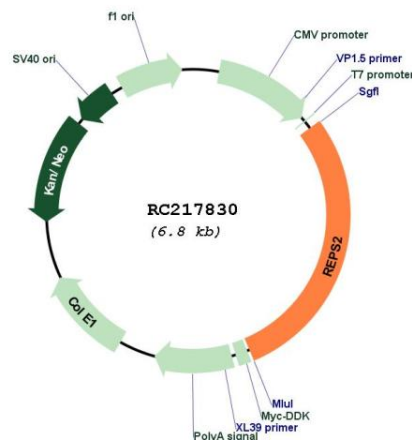
UniProt ID: [Q8NFH8](#)

Cytogenetics: Xp22.2

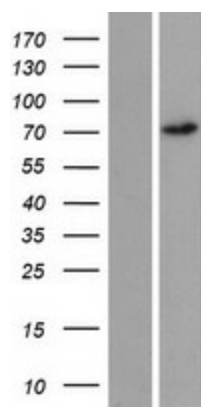
MW: 71.2 kDa

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]

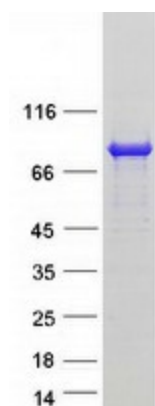
Product images:



Circular map for RC217830



Western blot validation of overexpression lysate (Cat# [LY421142]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217830 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REPS2 protein (Cat# [TP317830]). The protein was produced from HEK293T cells transfected with REPS2 cDNA clone (Cat# RC217830) using MegaTran 2.0 (Cat# [TT210002]).