

Product datasheet for **RC204635**

RBP4 (NM_006744) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: RBP4

Synonyms: MCOPCB10; RDCCAS

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC204635 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGGTGTGGGCGCTCTTTCTGTTGGCGGCGCTGGGCAGCGGCCGCGGGAGCGCGACTGCCGAG
TGAGCAGCTTCCGAGTCAAGGAGAACTTCGACAAGGCTCGCTTCTCTGGGACCTGGTACGCCATGGCCAA
GAAGGACCCCGAGGGCCTCTTTCTGCAGGACAACATCGTCGCGGAGTTCTCCGTGGACGAGACCGGCCAG
ATGAGCGCCACAGCCAAGGGCCGAGTCCGTCTTTGAATAACTGGGACGTGTGCGCAGACATGGTGGCA
CCTTCACAGACACCGAGGACCCTGCCAAGTTCAAGATGAAGTACTGGGGCGTAGCCTCCTTTCTCCAGAA
AGGAAATGATGACCACTGGATCGTCGACACAGACTACGACACGTATGCCGTGCAGTACTCCTGCCGCCTC
CTGAACCTCGATGGCACCTGTGCTGACAGCTACTCCTTCGTGTTTTCCCGGGACCCCAACGGCCTGCCCC
CAGAAGCGCAGAAGATTGTAAGGCAGCGGCAGGAGAGCTGTGCCTGGCCAGGCAGTACAGGCTGATCGT
CCACAACGGTTACTGCGATGGCAGATCAGAAAGAAACCTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204635 protein sequence
Red=Cloning site Green=Tags(s)

MKWWWALFLLAALGSGRAERDCRVSSFRVKENFDKARFSGTWYAMAKKDPEGLFLQDNIVAEFSVDETQ
MSATAKGRVRLNNWDVCADMVGTFTDTEPAKFKMKYWGVSFLQKGNDDHWIVDTDYDYAVQYSRL
LNLDGTCADSYSFVSRDPNGLPPEAQKIVRQRQEELCLARQYRLIVHNGYCDGRSERNLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6069_b10.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006744

ORF Size: 603 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_006744.4](#)

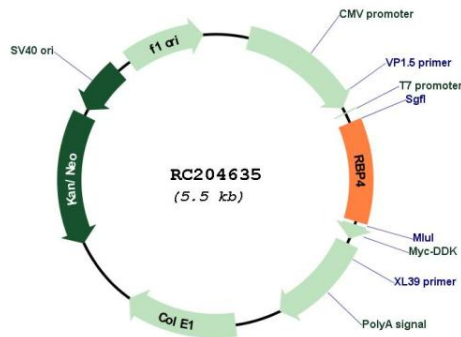
RefSeq Size: 941 bp

RefSeq ORF: 606 bp

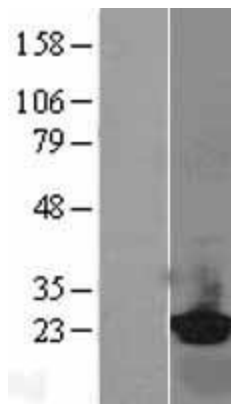
Locus ID: 5950
UniProt ID: [P02753](#)
Cytogenetics: 10q23.33
Domains: lipocalin
Protein Families: Druggable Genome, Secreted Protein
MW: 23 kDa

Gene Summary: This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells. [provided by RefSeq, Jul 2008]

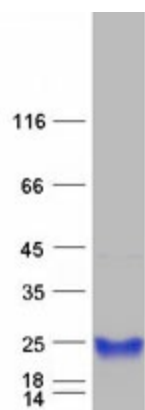
Product images:



Circular map for RC204635



Western blot validation of overexpression lysate (Cat# [LY402016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RBP4 protein (Cat# [TP304635]). The protein was produced from HEK293T cells transfected with RBP4 cDNA clone (Cat# RC204635) using MegaTran 2.0 (Cat# [TT210002]).