

Product datasheet for **RG204635**

RBP4 (NM_006744) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RBP4 (NM_006744) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RBP4
Synonyms: MCOPCB10; RDCCAS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204635 representing NM_006744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGGGTGTGGCGCTCTTTCTGTTGGCGGCTGGGCAGCGGCCGCGGGAGCGCGACTGCCGAG
 TGAGCAGCTTCCGAGTCAAGGAGAACTTCGACAAGGCTCGCTTCTCTGGACCTGGTACGCCATGGCCAA
 GAAGGACCCCGAGGGCCTCTTTCTGCAGGACAACATCGTCGCGGAGTTCTCCGTGGACGAGACCGGCCAG
 ATGAGCGCCACAGCCAAGGGCCGAGTCCGTCTTTGAATAACTGGGACGTGTGCCGAGACATGGTGGCA
 CCTTCACAGACACCGAGGACCCTGCCAAGTTCAAGATGAAGTACTGGGGCGTAGCCTCCTTCTCCAGAA
 AGGAAATGATGACCACTGGATCGTCGACACAGACTACGACACGTATGCCGTGCAGTACTCCTGCCGCTC
 CTGAACCTCGATGGCACCTGTGCTGACAGCTACTCCTTCGTGTTTTCCCGGGACCCCAACGGCCTGCCCC
 CAGAAGCGCAGAAGATTGTAAGGCAGCGGCAGGAGGAGCTGTGCCTGGCCAGGCAGTACAGGCTGATCGT
 CCACAACGGTTACTGCGATGGCAGATCAGAAAGAAACCTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204635 representing NM_006744
 Red=Cloning site Green=Tags(s)

MKWWWALFLLAALGSGRAERDCRVSSFRVKENFDKARFSGTWYAMAKKDPEGLFLQDNIVAIEFSVDETGQ
 MSATAKGRVRLNNDVDCADMVGTFTDTEPAKFKMKYWGVAFLQKGNDDHWIVDTDYDYAVQYSCRL
 LNLDTGTCADSYSFVSRDPNGLPPEAQKIVRQRQEELCLARQYRLIVHNGYCDGRSERNLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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.

RefSeq: [NM_006744.3](#), [NP_006735.2](#)

RefSeq Size: 941 bp

RefSeq ORF: 606 bp

Locus ID: 5950

UniProt ID: [P02753](#)

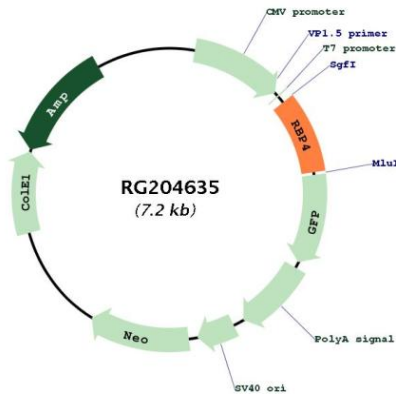
Cytogenetics: 10q23.33

Domains: lipocalin

Protein Families: Druggable Genome, Secreted Protein

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 RG204635