

Product datasheet for **RC202964**

RTBDN (NM_031429) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RTBDN (NM_031429) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | RTBDN |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC202964 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAAGCCCTAGAAACGCAGCTGAAGACGAGCAGAGGACGCTTCTCGGCTACAGAATCCCTCCCCA
CCTTGGAGCTCTATCTCAGGTGGACATGGACTGCAGGGTCCACATGCGACCCATCGGCCTGACGTGGGT
GCTGCAACTGACCTTGGCATGGATCCTGCTAGAAGCCTGTGGAGGGAGCCGCCACTCCAAGCCAGGTCC
CAGCAACACCATGGGCTGGCAGCTGATCTGGGCAAAGGCAAGCTGCACCTGGCAGGACCTTGTGTCCCT
CAGAGATGGACACAACAGAGACATCGGGCCCTGGAAACCATCCAGAACGCTGTGGAGTGCCGAGCCCTGA
ATGCGAATCCTTCTGGAACACCTCCAACGTGCCCTTCGACAGTCGCTTCCGCCTGCGGCTATTGGGGGTA
CGCCAGGCACAGCCGCTCTGCGAGGAGCTTGCCAGGCCTGGTTCGCAACTGCGAAGATGATATCACCT
GCGGCCCGACTTGGCTCCCACTCTCAGAAAAAGGGGCTGTGAGCCAGCTGCCTTACCTATGGACAGAC
CTTCGACAGCGGGACGGACCTTTGTGCTCGGCTCTGGGCCACGCCCTACCGGTGGCTGCTCCTGGAGCC
CGTCACTGCTTCAACATCTCCATCTCCGCGGTACCTCGTCCCAGACCAGGACGACGGGGCCGGGAAGCTC
CCTCCCGCGTCCCAGCCCTCGCACCTCCATCCTGGACGCTGCGGGCAGCGGAGTGGCAGTGGAAAG
CGGCAGCGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202964 protein sequence
 Red=Cloning site Green=Tags(s)

MDEALETQLKTSRGRFSATESLPTLELLSQVDMDCRVHMRPIGLTWVLQLTLAWILLEACGGSRPLQARS
 QQHHGLAADLGKGLHLAGPCCPSEMDTTETSGPGNHPERCGVPSPECESFLEHLQRALRSRFLRLLLGV
 RQAQPLCEELCQAWFANCEDDITCGPTWLPLESEKRGCEPSCLTYGQTFADGTDLCRSALGHALPVAAPGA
 RHCFNISISAVPRPRPGRRGREAPSRRSRSPRTSILDAAGSGSGSGSGSGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031429

ORF Size: 783 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_031429.2](#)

RefSeq Size: 1362 bp

RefSeq ORF: 786 bp

Locus ID: 83546

UniProt ID: [Q9BSG5](#)

Cytogenetics: 19p13.13

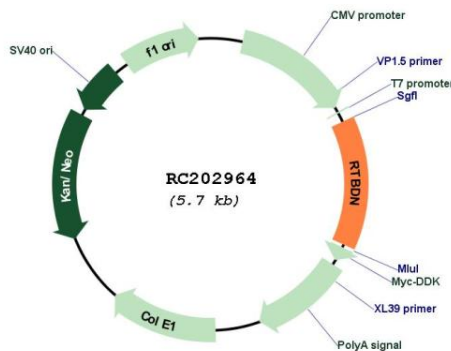
Domains: Folate_rec

Protein Families: Druggable Genome, Secreted Protein

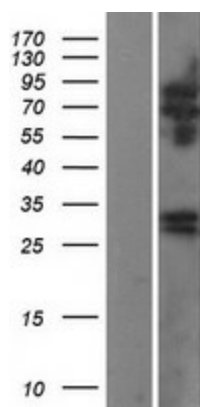
MW: 28.2 kDa

Gene Summary: This gene was first identified in a study of human eye tissues. The protein encoded by this gene is preferentially expressed in the retina and may play a role in binding retinoids and other carotenoids as it shares homology with riboflavin binding proteins. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC202964



Western blot validation of overexpression lysate (Cat# [LY403115]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202964 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).