

## Product datasheet for **RC233491**

### RTBDN (NM\_001270443) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RTBDN (NM_001270443) 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:	>RC233491 representing NM_001270443 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGAAGCCCTAGAAACGCAGCTGAAGACGAGCAGAGGACGCTTCTCGGCTACAGAATCCCTCCCA  
CCTTGGAGCTCTTATCTCAGGTGGACATGGACTGCAGGGTCCACATGCGACCCATCGGCCTGACGTGGGT  
GCTGCAACTGACCTTGGCATGGATCCTGCTAGAAGCCTGTGGAGGGAGCCGCCACTCCAAGCCAGGTCC  
CAGCAACACCATGGGCTGGCAGCTGATCTGGGCAAAGGCAAGCTGCACCTGGCAGGACCTTGTGTCCCT  
CAGAGATGGACACAACAGAGACATCGGGCCCTGGAAACCATCCAGAACGCTGTGGAGTCCGAGCCCTGA  
ATGCGAATCCTTCTGGAACACCTCCAACGTGCCCTTCGCAAGTCGCTTCCGCTGCGGCTATTGGGGGTA  
CGCCAGGCACAGCCGCTCTGCGAGGAGCTTGCCAGGCCTGGTTCGCAACTGCGAAGATGATATCACCT  
GCGGCCCGACTTGGCTCCCACTCTCAGAAAAAGGGGCTGTGAGCCAGCTGCCTTACCTATGGACAGAC  
CTTCGACAGCGGGACGGACCTTTGTGCTCGGCTCTGGGCCACGCCCTACCGGTGGCTGCTCCTGGAGCC  
CGTCACTGCTTCAACATCTCCATCTCCGCGGTACCTCGTCCCAGACCAGGACGACGGGGCCGGGAAGCTC  
CCTCCCGCGTTCGCGACGCCCTCGCACCTCCATCCTGGACGCTGCGGGCAGCGGAGTGGCAGTGAAG  
CGGCAGCGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233491 representing NM\_001270443  
Red=Cloning site Green=Tags(s)

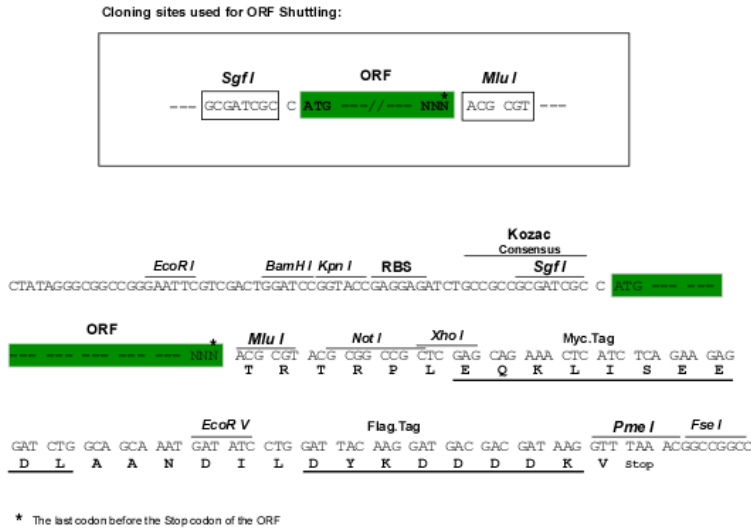
MDEALETQLKTSRGRFSATESLPTLELLSQVDMDCRVHMRPIGLTWVLQLTLAWILLEACGGSRPLQARS  
 QQHHGLAADLGKGLHLAGPCCPSEMDTTETSGPGNHPERCGVPSPECESFLEHLQRALRSRFLRLLLGV  
 RQAQPLCEELCQAWFANCEDDITCGPTWLP LSEKRGCEPSCLTYGQTFADGTDLCRSALGHALPVAAPGA  
 RHC FNISISAVPRPRPGRRGREAPSRRSRSPRTSILDAAGSGSGSGSGSGSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6627\\_d08.zip](https://cdn.origene.com/chromatograms/mk6627_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270443

**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.

**RefSeq:** [NM\\_001270443.1](#), [NP\\_001257372.1](#)

**RefSeq Size:** 1018 bp

**RefSeq ORF:** 690 bp

**Locus ID:** 83546

**UniProt ID:** [Q9BSG5](#)

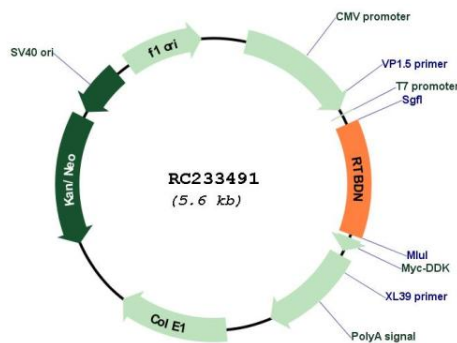
**Cytogenetics:** 19p13.13

**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 RC233491