

### **Product datasheet for RC212513**

#### OriGene Technologies, Inc.

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# Retinal protein 4 (UNC119) (NM\_054035) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Retinal protein 4 (UNC119) (NM\_054035) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Retinal protein 4

Synonyms: HRG4; IMD13; POC7; POC7A

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC212513 representing NM\_054035

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





**Protein Sequence:** >RC212513 representing NM\_054035

Red=Cloning site Green=Tags(s)

MKVKKGGGGAGTATESAPGPSGQSVAPIPQPPAESESGSESEPDAGPGPRPGPLQRKQPIGPEDVLGLQR ITGDYLCSPEENIYKIDFVRFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAGRFVRYQFTPAFLRL RQVGATVEFTVGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYDFPPLSEELSARAGSS GSGEVGASRD

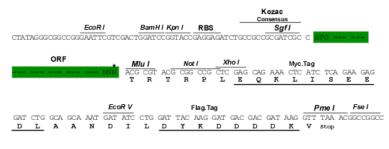
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja1444">https://cdn.origene.com/chromatograms/ja1444</a> e01.zip

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_054035

ORF Size: 660 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 054035.2, NP 473376.1

RefSeq Size: 1667 bp
RefSeq ORF: 663 bp
Locus ID: 9094

 UniProt ID:
 Q13432

 Cytogenetics:
 17q11.2

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

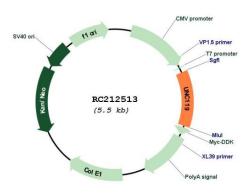
MW: 23.9 kDa

**Gene Summary:** This gene is specifically expressed in the photoreceptors in the retina. The encoded product

shares strong homology with the C. elegans unc119 protein and it can functionally complement the C. elegans unc119 mutation. It has been localized to the photoreceptor synapses in the outer plexiform layer of the retina, and suggested to play a role in the mechanism of photoreceptor neurotransmitter release through the synaptic vesicle cycle. Two transcript variants encoding different isoforms have been described for this gene.

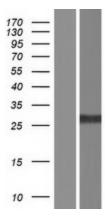
[provided by RefSeq, Jul 2008]

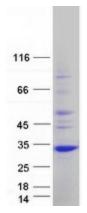
# **Product images:**



Circular map for RC212513







Western blot validation of overexpression lysate (Cat# [LY409279]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212513 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified UNC119 protein (Cat# [TP312513]). The protein was produced from HEK293T cells transfected with UNC119 cDNA clone (Cat# RC212513) using MegaTran 2.0 (Cat# [TT210002]).