

Product datasheet for **RC218438**

REC114 (NM_001042367) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: REC114 (NM_001042367) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: REC114
Synonyms: C15orf60; CT147; OOMD10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218438 representing NM_001042367
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGCAGGAAAAGTGCCCTTGAGCCTCGGGCTTACCGGAGGAGAAGCGGCAGAGTGGCCTCTGC
AGCGGTACGCCCGCTGCATACCCTCAAACACCAGAGACCCACCTGGGCCATGCCTGGAAGCTGGGACAGC
CCCCTGCCCCACATGGAAGGTTTTTGGATTCCAATGAAGAATCTGGATATCTTGTCTCACCATAGTTATA
TCAGGTCATTTCTTCATTTTCCAAGGACAGACACTACTGGAAGGGTTTTCACTCATTGGTAGCAAGGACT
GGTTGAAGATTGTAAGACGCGTGGATTGTCTGTTGTTTGAACAACGATAAAGGACAAGAGTCGCCTGTT
TCGAGTACAGTTCAAGGAGAGTCAAAGGAGCAGGCGCTGGAACACTGCTGCAGTTGTGTTCAGAAGCTG
GCACAATACATAACCGTGCAGGTGCCTGATGGAACATCCAGGAGCTTCAGCTGATTCCTGGCCACCCA
GGGCAACTGAAAGTCAAGGGAAGGATTCTGCAAAGAGTGTCCCACGGCAGCCTGGATCCCACCAGCACTC
AGAACAACAGCAAGTGTGTGAACAGCGGGCACAGGCGCTCCAGACGGAAGGACCTCACTGACGCAGTTA
GCTCAGACTCTTCTGGCATCGGAGGAGCTGCCCATGTCTATGAACAATCTGCATGGGGTGCAGAAGAGT
TAGGCCCTTCTACGTTTGTGCCTTATGGATCAGAATTTCCAGCATTGTGGAAGAGGTAGAAAAGGA
ACTGAAAAAGCTGGCGGGTTTGAGAAAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218438 representing NM_001042367
 Red=Cloning site Green=Tags(s)

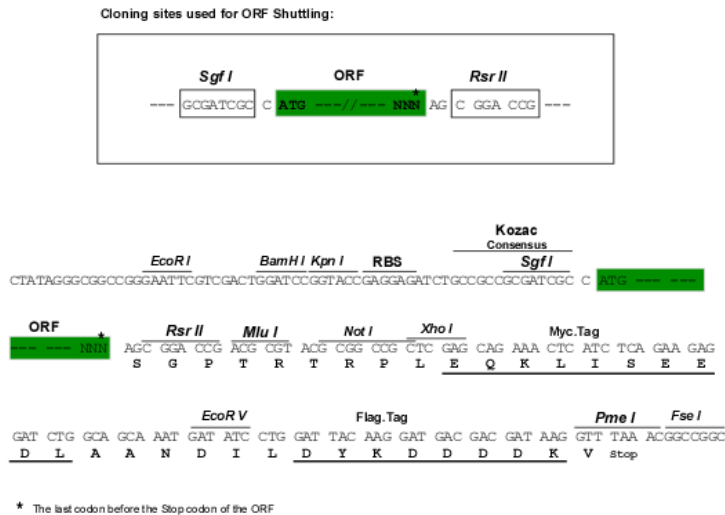
MAEAGKVPLSLGLTGGEAAEWPLQRYARCIPSNTRDPPGPCLEAGTAPCPTWKVFDSEESGYLVLTVI
 SGHFFIFQGQTLLEGFSLIGSKDWLKIVRRVDCLLFGTTIKDKSRLFRVQFSGESKEQALEHCCSCVQKL
 AQYITVQVPDGNIQELQLIPGPPRATESQGKDSAKSVPRQPGSHQHSEQQVQCVTAGTGAPDGRSLTQL
 AQTLLASEELPHVYEQSAWGAEEELGPFLRLCLMDQNFPFAFVEEVEKELKKLAGLRN

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8021_c12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001042367

ORF Size: 798 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_001042367.2](#)

RefSeq Size: 938 bp

RefSeq ORF: 801 bp

Locus ID: 283677

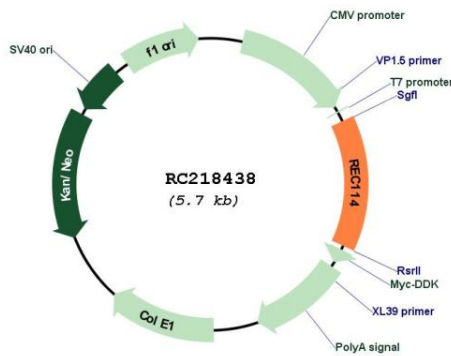
UniProt ID: [Q7Z4M0](#)

Cytogenetics: 15q24.1

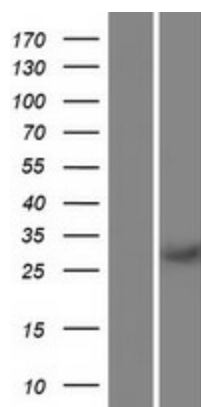
MW: 29 kDa

Gene Summary: The protein encoded by this gene is orthologous to the mouse meiotic recombination protein REC114, which is involved in DNA double-strand break formation during meiosis. The encoded protein is conserved in most eukaryotes and was first discovered and characterized in yeast. [provided by RefSeq, Feb 2017]

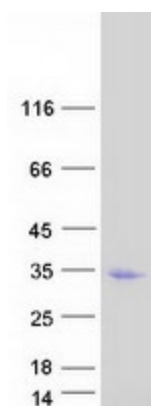
Product images:



Circular map for RC218438



Western blot validation of overexpression lysate (Cat# [LY420856]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218438 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REC114 protein (Cat# [TP318438]). The protein was produced from HEK293T cells transfected with REC114 cDNA clone (Cat# RC218438) using MegaTran 2.0 (Cat# [TT210002]).