

Product datasheet for **RG218438**

REC114 (NM_001042367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	REC114
Synonyms:	C15orf60; CT147; OOMD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218438 representing NM_001042367
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGCAGGAAAAGTGCCCTTGAGCCTCGGGCTTACCGGAGGAGAAGCGGCAGAGTGGCCTCTGC
AGCGGTACGCCCGCTGCATACCCTCAAACACCAGAGACCCACCTGGGCCATGCCTGGAAGCTGGGACAGC
CCCCGCCCCACATGGAAGGTTTTGATTCCAATGAAGAATCTGGATATCTTGTCTCACCATAGTTATA
TCAGGTCAATTTCTCATTTTCCAAGGACAGACTACTGGAAGGTTTTCACTATTGGTAGCAAGGACT
GGTTGAAGATTGTAAGACGCGTGGATTGTCTGTTGTTTGAACAACGATAAAGGACAAGAGTCGCTGTT
TCGAGTACAGTTCACTGGAGAGTCAAAGGAGCAGGCGCTGGAACACTGCTGCAGTTGTGTTCAGAAGCTG
GCACAATACATAACCGTGCAGGTGCCTGATGGAACATCCAGGAGCTTCAGCTGATTCTGGCCACCCA
GGGCAACTGAAAGTCAAGGGAAGGATTCTGCAAAGAGTGCCACGGCAGCCTGGATCCACAGCACTC
AGAACAACAGCAAGTGTGTGAACAGCGGGCACAGGCGCTCCAGACGGAAGGACCTCACTGACGCAGTTA
GCTCAGACTCTTCTGGCATCGGAGGAGTGCCCATGTCTATGAACAATCTGCATGGGGTGAGAAGAGT
TAGGCCCTTCCTACGTTTGTGCTTATGGATCAGAATTTCCAGCATTTGTGGAAGAGGTAGAAAAGGA
ACTGAAAAAGCTGGCGGTTTGAGAAAT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG218438 representing NM_001042367

Red=Cloning site Green=Tags(s)

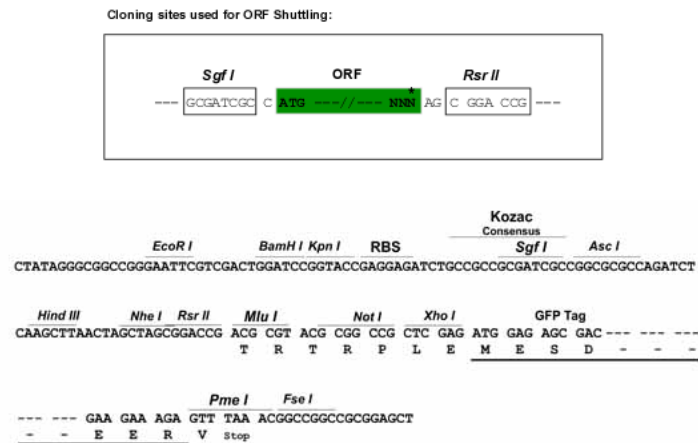
MAEAGKVPLSLGLTGGEAAEWPLQRYARCIPSNTRDPPGPCLEAGTAPCPTWKVFDSDNEESGYLVLTIVI
SGHFFIFQGGTLLLEGFSLIGSKDWLKI VRRVDCLLFGTTIKDKSRLFRVQFSGESKEQALEHCCSCVQKL
AQYITVQVPDGNIELQLIPGPPRATESQKDSAKSVPRQPGSHQHSEQQQVCVTAGTGAPDGRSLTQL
AQTLLASEELPHVYEQSAWGAEEELGPFLRLCLMDQNFPAFVEEVEKELKKLAGLRN

SGPTRRRLE - GFP Tag - V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001042367.2](#)

RefSeq Size: 938 bp

RefSeq ORF: 801 bp

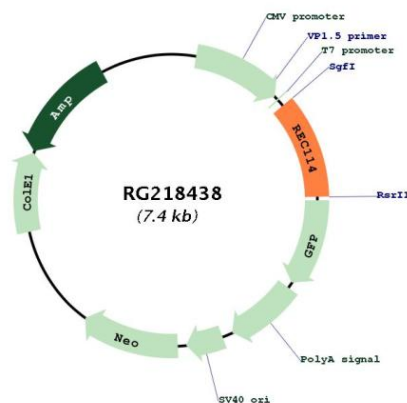
Locus ID: 283677

UniProt ID: [Q7Z4M0](#)

Cytogenetics: 15q24.1

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 RG218438