

Product datasheet for **RG219012**

REC8 (NM_001048205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REC8 (NM_001048205) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	REC8
Synonyms:	HR21spB; REC8L1; Rec8p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219012 representing NM_001048205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTACTATCCCAACGTGCTTCAGCGCCACACCGGCTGCTTTGCCACCATCTGGCTGGCGGCGACTC
 GCGGCAGCCGGTTGGTGAAGCGGAATACCTGAGGGTGAATGTGGTGAACCTGCGAGGAAATCCCA
 TTACGTGCTGGTACGAGTGCAACCCCGCAGCCCGGCCTGCCGCGGCCCGCTTCTCCCTATCTCTCA
 GCCCAACTTCAGATCGGTGTGATCCGCGCTATTCTCAACAATGCCAGTACCTCGTGAGGACATCCAGC
 ACATCTTGGAGCGCTCCACCGTCCCAGCTGCAGATCCGAATAGATATGGAGACTGAGCTACCCAGCCT
 GCTGCTTCTAACACCTGGCCATGATGGAGACCTAGAAGATGCTCCAGATCCCTTTTTGGGATGATG
 TCTGTGGATCCCAGACTTCTAGTCCTTCGATATCCCTCAGATTCGACACCTCTAGAGGCTGCAATCC
 CAGAGAGATTGAAGAGATCCCTCCTGAAGTTCCTACAGAGCCAGGGAGCCAGAGAGGATTCGGTCCAC
 TGTGCTGCCACCTGAGGCCATCACGATCCTGGAGGCAGAGCCATACGGATGCTGGAGATTGAGGGTGAA
 CGGAGACTCCCAGAGGTCAGCCGCCGAGAACTGGACCTGCTGATCGCAGAGGAAGAAGAAGCTATCTTGT
 TAGAAATCCCAGGCTCCACCTCCAGCTCCTGCAGAGGTGGAAGGAATAGGAGAGGCACTGGGTCTGA
 GGAGCTGAGGCTGACAGGCTGGGAACCTGGGGCCCTACTCATGGAGGTGACCCCCCGGAGGAGCTGCGT
 CTGCCAGCCCCACCCAGCCAGAGAGGAGGCCCCAGTCCCCCACCTCCTCGCCGCCCGCTGCTCGCC
 GGTTACTGTTCTGGGACAAGGAGACTCAGATCTCCCCGGAGAAATCCAGGAACAACTGCAAACAGAGC
 CCACTGCTGGGAATGTCTATGGTGCAGCCGCCGAGAGGACCATCAGAGGCCCTGCGGAGTTGTTGAGA
 ACCCAACTCTCTGGCTGGCTACCCCTGAACTACTGGTCTCTGGACCCATTGTGCCAGCCACCC
 CAAAACCCCTCAGCGAGAGCTGCCTGAGGAGCCAGCCGCTGAGGAGGAAGGAGAAGATTGAAGTTC
 AAGTGAGATTGAGGTCCCGAGGGAGGCCCTGGAGCCAGTGTCCCTTATGGTGTCTTTAGAGATCTCC
 CTAGAGGCAGCTGAAGAGGAGAAGTCCCGCATCAGCCTCATCCCACCAGAAGAACGGTGGCCTGGCCTG
 AGGTGGAGGCGCCAGAAGCTCCTGCATTGCCCGTGGTGCCTGAACTCCCTGAGGTGCCATGGAGATGCC
 TTTGGTGTGCCCCAGAGCTCGAGCTGCTCTCACTGGAAGCAGTGCACAGGGCAGTGGCACTGGAGCTG
 CAGGCTAACAGGGAGCCCGACTTCAGCAGCCTGGTGTACCTCTCAGCCCCGCAGGATGGCTGCCCGGG
 TCTTCTACCTGCTCCTGGTGTCTCAGCGCAACAGATTCTCACGTGAAACAAGAAAAGCCATATGGTCG
 CCTCTGATCCAGCCGGGCCAGATTCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219012 representing NM_001048205
 Red=Cloning site Green=Tags(s)

MFYYPNVLQRHTGCFATIWLAAATRGSRLLVKREYLRVNVVKTCEEILNYVLVRVQPPQPLPRPRFSLYLS
 AQLQIGVIRVYSQQCYLVEDIQHILERLHRAQLQIRIDMETELPSLLLPHLAMMETLEDAPDFFGMM
 SVDPRLPSPFDIPQIRHLLAAIIPERVEEIPPEVPTPEPREPERIPVTVLPPEAITILEAEPIRMLEIEGE
 RELPEVSRRELDLLIAEEEEAILLEIPRLPPPAPAEVEGIGEALGPEELRLTGWEPGALLMEVTPPEELR
 LPAPPSERRPPVPPPPRRRRRLLFWDKETQISPEKFQEQQLQTRAHCWECMPVQPPERTIRGPAELFR
 TPTLSGWLPELLGLWTHCAQPPPKALRRELPEEAAAAEERRKIEVPSEIEVPREALEPSVPLMVSLEIS
 LEAAAAEKSRISLIPPEERWAWPEVEAPEALPVVPELPEVPMEMPLVLPPELELLSLEAVHRAVALEL
 QANREPDFSSLVSPLSPRRMAARVFYLLLVLSAQQILHVKQEKPYGRLLIQPGPRFH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001048205

ORF Size: 1641 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_001048205.2](#)

RefSeq Size: 2354 bp

RefSeq ORF: 1644 bp

Locus ID: 9985

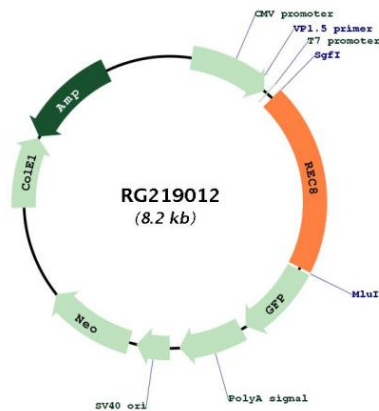
UniProt ID: [O95072](#)

Cytogenetics: 14q12

Protein Pathways: Oocyte meiosis

Gene Summary: This gene encodes a member of the kleisin family of SMC (structural maintenance of chromosome) protein partners. The protein localizes to the axial elements of chromosomes during meiosis in both oocytes and spermatocytes. In the mouse, the homologous protein is a key component of the meiotic cohesion complex, which regulates sister chromatid cohesion and recombination between homologous chromosomes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219012