

Product datasheet for **RC233834**

RAGE (AGER) (NM_001206940) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAGE (AGER) (NM_001206940) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAGE
Synonyms: RAGE; SCARJ1; sRAGE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233834 representing NM_001206940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCTCAGTCTGTGGGGGCGAGTAGTGGTCTC
 AAAACATCACAGCCCGATTGGCGAGCCACTGGTCTGAAGTGTAAAGGGGCCCCAAGAAACCACCCCA
 GCGGCTGGAATGGAACTGAACACAGGCCGGACAGAAGCTTGAAGGTCTGTCTCCCAGGGAGGAGGC
 CCCTGGGACAGTGTGGCTCGTGTCTTCCCAACGGCTCCCTCTTCCCTCCGGCTGTGGGATCCAGGATG
 AGGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACCTACCGAGTCCGTGT
 CTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACTCACGGCTGGTGTCCCAATAAG
 GTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGGGACTCTTAGCTGGCACTTGGATGGGAAGCCCC
 TGGTGCCTAATGAGAAGGGAGTATCTGTGAAGGAACAGACCAGGAGACACCCTGAGACAGGGCTCTTCAC
 ACTGCAGTCGGAGCTAATGGTGACCCACGCCGGGGAGGAGATCCCCGTCCCACCTTCTCCTGTAGCTTC
 AGCCCAGGCCTTCCCGACACCGGGCCTTGCGCACAGCCCCATCCAGCCCCGTGTCTGGGAGCCTGTGC
 CTCTGGAGGAGGTCCAATTGGTGGTGGAGCCAGAAGGTGGAGCAGTAGCTCCTGGTGAACCGTAACCCT
 GACCTGTGAAGTCCCTGCCAGCCCTCTCCTCAAATCCACTGGATGAAGGATGGTGTGCCCTTGCCCTT
 CCCCCAGCCCTGTGCTGATCCTCCCTGAGATAGGGCCTCAGGACCAGGGAACCTACAGCTGTGTGGCCA
 CCATTCCAGCCACGGGCCCCAGGAAAGCCGTGCTGTGAGCATCAGCATCATCGAACCCAGGCGAGGAGGG
 GCCAACTGCAGGTGAGGGGTTTGATAAAGTCAGGGAAGCAGAAGATAGCCCCAACACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233834 representing NM_001206940
Red=Cloning site Green=Tags(s)

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKCKGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGG
 PWDSVARVLPNGSLFLPAVGIQDEGIFRCQAMNRRNGKETKSNYRVRVYQIPGKPEIVDSASELTAGVPNK
 VGTCVSEGSYPAGTLSWHLDGKPLVPNEKGVSVKEQTRRHPEGLFTLQSELMVTPARGGDRPTFSCSF
 SPGLPRHRALRTAPIQPRVWEPVPLEEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSPIIHWKMDGVPLPL
 PPSVLILPEIGPQDQGTYSVATHSSHGPPQESRAVSISIIIEPGEEGPTAGEGFDKVFREAEDSPQHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001206940

ORF Size: 1041 bp

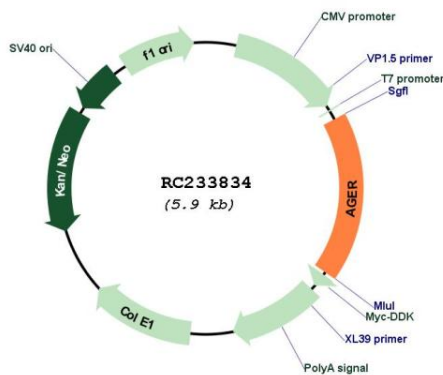
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001206940.1, NP_001193869.1</u>
RefSeq Size:	1463 bp
RefSeq ORF:	1044 bp
Locus ID:	177
UniProt ID:	<u>Q15109</u>
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	37.5 kDa
Gene Summary:	The advanced glycosylation end product (AGE) receptor encoded by this gene is a member of the immunoglobulin superfamily of cell surface receptors. It is a multiligand receptor, and besides AGE, interacts with other molecules implicated in homeostasis, development, and inflammation, and certain diseases, such as diabetes and Alzheimer's disease. Many alternatively spliced transcript variants encoding different isoforms, as well as non-protein-coding variants, have been described for this gene (PMID:18089847). [provided by RefSeq, May 2011]

Product images:



Circular map for RC233834