

Product datasheet for **RG233956**

RAGE (AGER) (NM_001206932) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAGE (AGER) (NM_001206932) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAGE
Synonyms: RAGE; SCARJ1; sRAGE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233956 representing NM_001206932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCTCAGTCTGTGGGGGCGAGTAGTGGTCTC
 AAAACATCACAGCCCGATTGGCGAGCCACTGGTCTGAAGTGTAAAGGGGCCCCAAGAAACCACCCCA
 GCGGCTGGAATGGAACTGGGAGGAGGCCCTGGGACAGTGTGGCTCGTGTCTTCCCAACGGCTCCCTC
 TTCCTCCGGCTGTCGGGATCCAGGATGAGGGATTTTCCGGTCCAGGCAATGAACAGGAATGAAAGG
 AGACCAAGTCCAACCTACCGAGTCCGTGTCTACCAGATTCTGGGAAGCCAGAAATTGTAGATTCTGCCTC
 TGAACACAGGCTGGTGTCCCAATAAGGTGGGACATGTGTGTCAGAGGGAAGCTACCCCTGCAGGGACT
 CTTAGCTGGCACTTGGATGGGAAGCCCTGGTGCCTAATGAGAAGGGAGTATCTGTGAAGGAACAGACCA
 GGAGACACCCTGAGACAGGGCTCTTCACTGCAGTCGGAGCTAATGGTGACCCAGCCCGGGGAGGAGA
 TCCCCGTCCCACCTTCTCCTGTAGCTTACAGCCAGGCCTTCCCCGACACCCGGGCTTGCACAGCCCCC
 ATCCAGCCCCGTGTCTGGGAGCCTGTGCCTCTGGAGGAGTCCAATTGGTGGTGGAGCCAGAAGTGGAG
 CAGTAGCTCCTGGTGGAAACCGTAACCTGACCTGTGAAGTCCCTGCCAGCCCTCCTCAAATCCACTG
 GATGAAGGATGGTGTGCCCTTCCCCCTTCCCCAGCCCTGTGCTGATCCTCCTGAGTAGGGCCTCAG
 GACCAGGAACTACAGCTGTGTGGCCACCCATTCCAGCCAGGGCCCCAGGAAAGCCGTGCTGTACAG
 TCAGCATCATCGAACCAGGCGAGGAGGGGCCAACTGCAGGCTCTGTGGGAGGATCAGGGCTGGAACTCT
 AGCCCTGGCCCTGGGATCCTGGGAGCCTGGGACAGCCGCCCTGCTCATTGGGGTCATCTTGTGGCAA
 AGGCGGCAACGCCGAGGAGGAGGAGGAAGGCCCCAGAAAACCAGGAGGAAGAGGAGGAGCGTGCAGAAC
 TGAATCAGTCGGAGGAACCTGAGGCAGGCGAGAGTAGTACTGGAGGGCCT

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG233956 representing NM_001206932
 Red=Cloning site Green=Tags(s)

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKCKGAPKKPPQRLEWKLGGGPWDSVARVLPNGSL
 FLPAVGIQDEGIFRCQAMNRNGKETKSNYRVRVYQIPGKPEIVDSASELTAGVPNKVGTVCVSEGSYPAGT
 LSWHLDDGKPLVPNEKGVSVKEQTRRHPTGLFTLQSELMVTPARGDPRPTFSCSFSPGLPRHRALRTAP
 IQPRVWEPVPLEEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSQIHWMKDGVPLPLPPSPVLILPEIGPQ
 DQGTYSVCVATHSSHGPQESRAVSIIEPGEEGPTAGSVGGSLGTLALALGILGGLGTAALLIGVILWQ
 RRQRRGEERKAPENQEEEEERAELNQSEEPEAGESSTGGP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001206932

ORF Size: 1170 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_001206932.1](#), [NP_001193861.1](#)

RefSeq Size: 1466 bp

RefSeq ORF: 1173 bp

Locus ID: 177

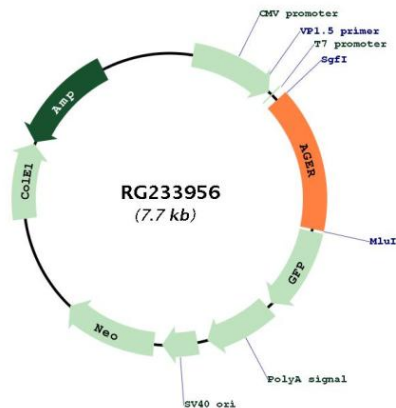
UniProt ID: [Q15109](#)

Cytogenetics: 6p21.32

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

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 RG233956