

Specifications:

Gene:	hAGER
Accession:	NP_001127
Insert size:	1228bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

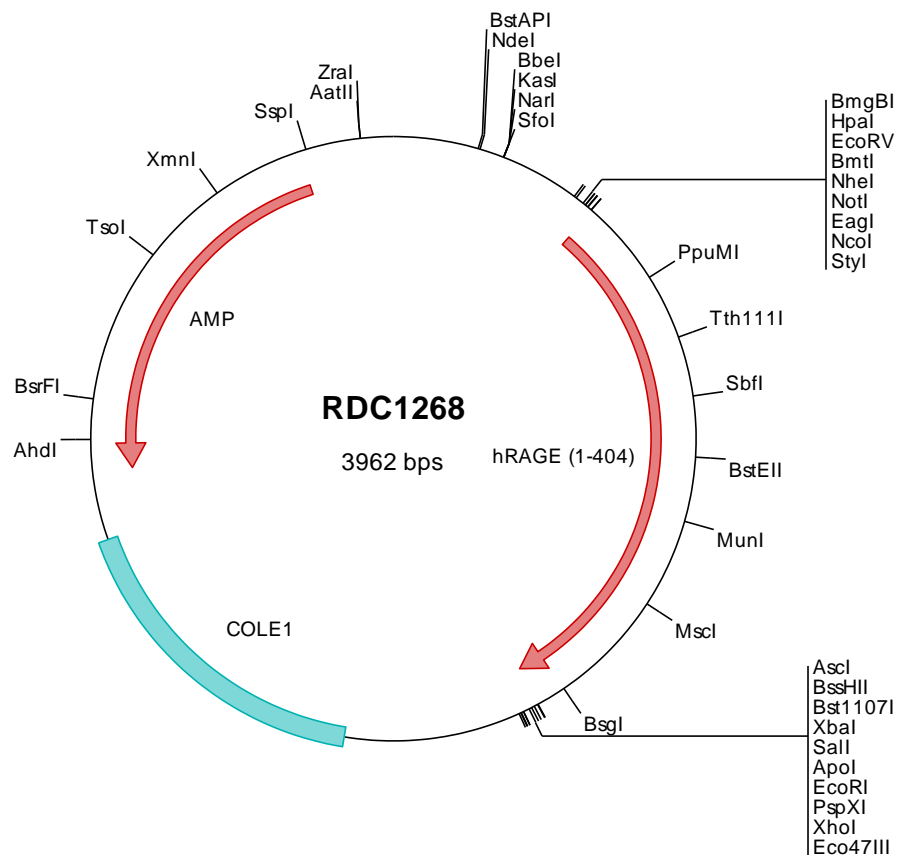
hRAGE cDNA Plasmid

AGER advanced glycosylation end product-specific receptor [*Homo sapiens* (human)]

Also known as: RAGE

Summary:

RAGE is a member of the immunoglobulin superfamily of cell surface receptors. It is a receptor for advanced glycosylation end product (AGE). RAGE also binds amyloid β peptide, S100/calgranulin family proteins, high mobility group B1 (HMGB1), and leukocyte integrins. RAGE activation modulates varied essential cellular responses (including inflammation, immunity, proliferation, cellular adhesion and migration) that contribute to cellular dysfunction associated with chronic diseases such as diabetes, cancer, amyloidoses and immune or inflammatory disorders. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1268 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taacggcagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggccgccacc atggccgccc gaacagcagc tggagcctgg gtgctgttcc tcagtctgtg
501 gggggcagta gtaggctc acacaggccc gacagaagct tggaaagtcc tgtctcccca gggaggaggc ccctgggaca gtgtggctog tgtctctccc aacggtccc
601 tggaaactga acacaggccc gacagaagct tggaaagtcc tgtctcccca gggaggaggc ccctgggaca gtgtggctog tgtctctccc aacggtccc
701 tcttctctcc ggctgtcggg atccaggatg aggggatatt ccggtgcag gcaatgaaca ggaatggaaa ggagaccaag tccaactacc gactcctgtg
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901 cctgagggga ctcttagctg gcaactggat gggaaagccc tgggtgctaa tbgaaaggga gtatctgtga aggaacagac caggagacac cctgagacag
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1801 cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg agctaactca cattaattgc gttgctgca ctgcccgtt tccagtcggg aaacctgtcg
1901 tgccagctgc attaataaat cggccaacgc gcggggagag gcggtttgag tattggggcg tcttccgctt cctcgtctac tgactcgtct cgtcggctcg
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2501 ggtaacagga ttagcagagc gaggtatgta gggcgtgcta cagagttctt gaagtgtgg cctaactacg gctacactag aaggacagta tttggtatct
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2701 gcagattacg cgcagaaaaa aaggatctca agaagatcct ttgatcttt ctacggggtc tgacgctcag tggaaacgaaa actcaagttt agggattttg
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2901 gttaccaatg cttaatcagt gaggcaccta tctcagcag atctctatatt cgttcatctt tagttgctgt actccccgct gtgtagataa ctacgatacg
3001 ggagggttca ccatctggcc ccagtgctgc aatgataccg cgagaccacc gctcaccggc tccagattta tcagcaataa accagccagc cggaaaggccc
3101 gagcgcagaa gtggtctctg aactttatcc gcctccatcc agtctattaa ttggtgcccg gaagctagag taagttagtt gccagttaat agtttggcga
3201 acgttggttg cattgctaca ggcacgtggt tgtcagctc gtcggttggg atggcttcat tcagctccgg ttcaccaaga tcaaggcgag ttacatgatc
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3901 agaaaccatt attatcatga cattaaccta taaaaatagg cgtatcacga ggcctttctg tc

> RDC1268 Translated Insert Sequence

1 maagtavgaw vlvslwgv vgaqnitari geplvlkckg apkkppqrle wklntgrtea wkvlsppggg pwsdvarvlp ngsflfpavg iqdegifrcq
101 amnrngketk snyrvrvyqi pgkpeivdsa seltagvpng vtgcvsegsy pagtlshwld gkplvpnek gsvkqqrhrh petglftlqs elmvtpargg
201 dprptfscsf spglprhral rtapiqprvw epvpleevl vvepeggava pggvtltce vpaqpsqih wmkdgvplpl pspvlilpe igpdqgtys
301 cvathsshgp qesravsis ipegeegpta gsvgsgslgt lalalgilgg lgtaaligv ilwqrrrry eerkapenqe eeeeraelnq seepeagess
401 tggp