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Product datasheet for RC220417

RAGE (AGER) (NM_172197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAGE (AGER) (NM_172197) 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:

>RC220417 representing NM_172197
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCCTCAGTCTGTGGGGGGCAGTAGTAGGTGCTC
AAAACATCACAGCCCGGATTGGCGAGCCACTGGTGCTGAAGTGTAAGGGGGCCCCCAAGAAACCACCCCA
GCGGCTGGAATGGAAACTGGGAGGAGGCCCCTGGGACAGTGTGGCTCGTGTCCTTCCCAACGGCTCCCTC
TTCCTTCCGGCTGTCGGGATCCAGGATGAGGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGG
AGACCAAGTCCAACTACCGAGTCCGTGTCTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTC
TGAACTCACGGCTGGTGTTCCCAATAAGGTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGGGACT
CTTAGCTGGCACTTGGATGGGAAGCCCCTGGTGCCTAATGAGAAGGGAGTATCTGTGAAGGAACAGACCA
GGAGACACCCTGAGACAGGGCTCTTCACACTGCAGTCGGAGCTAATGGTGACCCCAGCCCGGGGAGGAGA
TCCCCGTCCCACCTTCTCCTGTAGCTTCAGCCCAGGCCTTCCCCGACACCGGGCCTTGCGCACAGCCCCC
ATCCAGCCCCGTGTCTGGGAGCCTGTGCCTCTGGAGGAGGTCCAATTGGTGGTGGAGCCAGAAGGTGGAG
CAGTAGCTCCTGGTGGAACCGTAACCCTGACCTGTGAAGTCCCTGCCCAGCCCTCTCCTCAAATCCACTG
GATGAAGGATGTGAGTGACCTGGAGAGAGGGGCTGGGAGAACCAGGCGAGGAGGGGCCAACTGCAGGCTC
TGTGGGAGGATCAGGGCTGGGAACTCTAGCCCTGGCCCTGGGGATCCTGGGAGGCCTGGGGACAGCCGCC
CTGCTCATTGGGGTCATCTTGTGGCAAAGGCGGCAACGCCGAGGAGAGGAGAGGAAGGCCCCAGAAAACC
AGGAGGAAGAGGAGGAGCGTGCAGAACTGAATCAGTCGGAGGAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220417 representing NM_172197
Red=Cloning site Green=Tags(s)

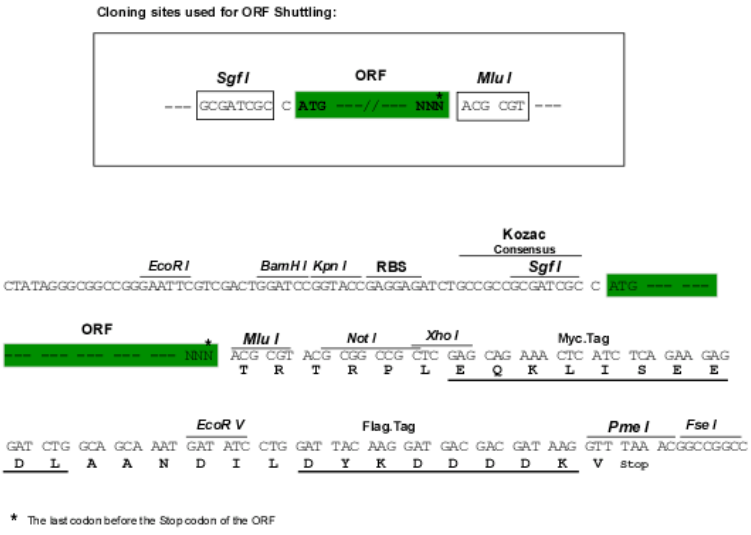
MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKCKGAPKKPPQRLEWKLGGGPWDSVARVLPNGSL
FLPAVGIQDEGIFRCQAMNRNGKETKSNYRVRVYQIPGKPEIVDSASELTAGVPNKVGTCVSEGSYPAGT
LSWHLDGKPLVPNEKGVSVKEQTRRHPETGLFTLQSELMVTPARGGDPRPTFSCSFSPGLPRHRALRTAP
IQPRVWEPVPLEEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSPQIHWMKDVSDLERGAGRTRRGGANCRL
CGRIRAGNSSPGPGDPGRPGDSRPAHWGHLVAKAATPRRGEEGPRKPGGRGGACRTESVGGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1543_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172197

ORF Size: 1026 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_172197.2, NP_751947.1

RefSeq Size: 1259 bp

RefSeq ORF: 1029 bp

Locus ID: 177

UniProt ID: Q15109

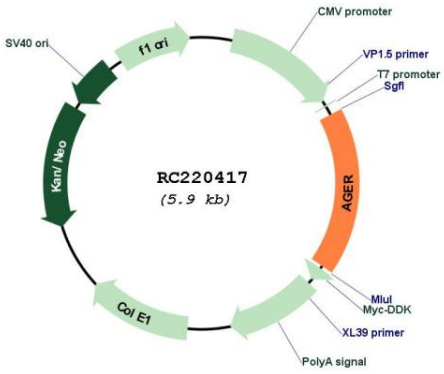
Cytogenetics: 6p21.32

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

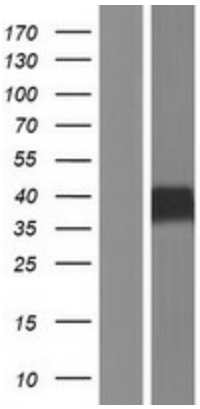
MW: 34 kDa

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 RC220417



Western blot validation of overexpression lysate (Cat# [LY406771]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220417 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).