OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC331710

RAGE (AGER) (NM_001206934) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: RAGE (AGER) (NM_001206934) Human Untagged Clone

Tag: Tag Free

Symbol: RAGE

Synonyms: RAGE; SCARJ1; sRAGE

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331710 representing NM_001206934.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCCTCAGTCTGTGGGGGGCAGTAGTAGGTGCT
CAAAACATCACAGCCCGGATTGGCGAGCCACTGGTGCTGAAGTGTAAGGGGGCCCCCCAAGAAACCACCC
CAGCGGCTGGAATGGAAACTGAACACAGGCCGGACAGAAGCTTGGAAGGTCCTGTCTCCCCAGGGAGGA
GGCCCCTGGGACAGTGTGGCTCGTGTCCTTCCCAACGGCTCCCTCTTCCTTCCGGCTGTCGGGATCCAG
GATGAGGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTACCGAGTC
CGTGTCTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACTCACGGCTGGTGTTCCC
AATAAGGTAGTGGAAGAAAGCAGGAGAAGTAGAAAACGGCCCTGTGAACAGGAGGTGGGGACATGTGTG
TCAGAGGGAAGCTACCCTGCAGGGACTCTTAGCTGGCACTTGGATGGGAAGCCCCTGGTGCCTAATGAG
AAGGGAGTATCTGTGAAGGAACAGACCAGGAGACACCCTGAGACAGGGCTCTTCACACTGCAGTCGGAG
CTAATGGTGACCCCAGCCCGGGGAGGAGATCCCCGTCCCACCTTCTCCTGTAGCTTCAGCCCAGGCCTT
CCCCGACACCGGGCCTTGCGCACAGCCCCCATCCAGCCCCGTGTCTGGGAGCCTGTGCCTCTGGAGGAG
GTCCAATTGGTGGTGGAGCCAGAAGGTGGAGCAGTAGCTCCTGGTGGAACCGTAACCCTGACCTGTGAA
GTCCCTGCCCAGCCCTCTCCTCAAATCCACTGGATGAAGGATGGTGTGCCCTTGCCCCTTCCCCCCAGC
CCTGTGCTGATCCTCCCTGAGATAGGGCCTCAGGACCAGGGAACCTACAGCTGTGTGGCCACCCATTCC
AGCCACGGGCCCCAGGAAAGCCGTGCTGTCAGCATCAGCATCATCGAACCAGGCGAGGAGGGGCCAACT
GCAGGTGAGGGGTTTGATAAAGTCAGGGAAGCAGAAGATAGCCCCCAACACATGTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001206934

Insert Size: 1092 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

View online »

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_001206934.1
RefSeq Size:	1511 bp
RefSeq ORF:	1092 bp
Locus ID:	177
UniProt ID:	Q15109
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	39 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] Transcript Variant: This variant (4, also known as RAGE_v6) lacks the penultimate coding exon, and uses alternate donor splice sites at two internal coding exons compared to variant 1. This results in a frame-shift and a shorter isoform (4) with a distinct C-terminus compared to isoform 1. Sequence Note: This Refseq, containing two in-frame translation initiation codons (at nt 8-10 and nt 101-103), is annotated with a CDS starting from the downstream AUG (dAUG) because the AGE receptor encoded by this gene is a known type 1 transmembrane protein requiring signal peptide for its function, and a signal peptide of 22 aa is predicted for the dAUG initiated protein. Translation initiation from the upstream AUG (uAUG) will add an extra 31 aa to the N-terminus, and no signal peptide is predicted for the uAUG initiated protein.