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Product datasheet for SC122583

RAGE (AGER) (NM_001136) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAGE (AGER) (NM_001136) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAGE
Synonyms:	RAGE; SCARJ1; sRAGE
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_001136 edited
GTCCCTGGAAGGAAGCAGGATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCCT
CAGTCTGTGGGGGGCAGTAGTAGGTGCTCAAAACATCACAGCCCGGATTGGCGAGCCACT
GGTGCTGAAGTGTAAGGGGGCCCCCAAGAAACCACCCCAGCGGCTGGAATGGAAACTGAA
CACAGGCCGGACAGAAGCTTGGAAGGTCCTGTCTCCCCAGGGAGGAGGCCCCTGGGACAG
TGTGGCTCGTGTCCTTCCCAACGGCTCCCTCTTCCTTCCGGCTGTCGGGATCCAGGATGA
GGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTACCG
AGTCCGTGTCTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACTCAC
GGCTGGTGTTCCCAATAAGGTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGGGAC
TCTTAGCTGGCACTTGGATGGGAAGCCCCTGGTGCCTAATGAGAAGGGAGTATCTGTGAA
GGAACAGACCAGGAGACACCCTGAGACAGGGCTCTTCACACTGCAGTCGGAGCTAATGGT
GACCCCAGCCCGGGGAGGAGATCCCCGTCCCACCTTCTCCTGTAGCTTCAGCCCAGGCCT
TCCCCGACACCGGGCCTTGCGCACAGCCCCCATCCAGCCCCGTGTCTGGGAGCCTGTGCC
TCTGGAGGAGGTCCAATTGGTGGTGGAGCCAGAAGGTGGAGCAGTAGCTCCTGGTGGAAC
CGTAACCCTGACCTGTGAAGTCCCTGCCCAGCCCTCTCCTCAAATCCACTGGATGAAGGA
TGGTGTGCCCTTGCCCCTTCCCCCCAGCCCTGTGCTGATCCTCCCTGAGATAGGGCCTCA
GGACCAGGGAACCTACAGCTGTGTGGCCACCCATTCCAGCCACGGGCCCCAGGAAAGCCG
TGCTGTCAGCATCAGCATCATCGAACCAGGCGAGGAGGGGCCAACTGCAGGCTCTGTGGG
AGGATCAGGGCTGGGAACTCTAGCCCTGGCCCTGGGGATCCTGGGAGGCCTGGGGACAGC
CGCCCTGCTCATTGGGGTCATCTTGTGGCAAAGGCGGCAACGCCGAGGAGAGGAGAGGAA
GGCCCCAGAAAACCAGGAGGAAGAGGAGGAGCGTGCAGAACTGAATCAGTCGGAGGAACC
TGAGGCAGGCGAGAGTAGTACTGGAGGGCCTTGAGGGGCCCACAGACAGATCCCATCCAT
CAGCTCCCTTTTCTTTTTCCCTTGAACTGTTCTGGCCTCAGACCAACTCTCTCCTGTATA
ATCTCTCTCCTGTATAACCCCACCTTGCCAAGCTTTCTTCTACAACCAGAGCCCCCACAA
TGATGATTAAACACCTGACACATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001136 unedited
GGTCCAAATTTTGTAATACGACTTCACTATAGGGCGGCCGCGAATTCGCCATTACGGCCG
GGGGTCCCTGGAAGGAAGCAGGATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGT
CCTCAGTCTGTGGGGGGCAGTAGTAGGTGCTCAAAACATCACAGCCCGGATTGGCGAGCC
ACTGGTGCTGAAGTGTAAGGGGGCCCCCAAGAAACCACCCCAGCGGCTGGAATGGAAACT
GAACACAGGCCGGACAGAAGCTTGGAAGGTCCTGTCTCCCCAGGGAGGAGGCCCCTGGGA
CAGTGTGGCTCGTGTCCTTCCCAACGGCTCCCTCTTCCTTCCGGCTGTCGGGATCCAGGA
TGAGGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTA
CCGAGTCCGTGTCTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACT
CACGGCTGGTGTTCCCAATAAGGTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGG
GACTCTTAGCTGGCACTTGGATGGGAAGCCCCTGGTGCCTAATGAGAAGGGAGTATCTGT
GAAGGAACAGACCAGGAGACACCCTGAGACAGGGCTCTTCACACTGCAGTCGGAGCTAAT
GGTGACCCCAGCCCGGNGAGGAGATCCCCGTCCCACCTTCTCCTGTAGCTTCAGCCCANG
CCTTCCCCGACACCGGCCTTGCGCACAGCCCCCATCCAGCCCCGTGTCTGGGAGCCTGTG
CCTCTGGAGGAGGTCAATNTGTGGTGGAGCCAGAAAGTGGACAGTAGCTCCTGGTGGGAC
CCGTACCCTGACCTGTGAAGTCCCTGCCCAGCCCTCTCCTCAAATCACTGGATGAAGATG
TGTGCCCTTGCCCTTCC
```

Restriction Sites: Please inquire

ACCN: NM_001136

Insert Size: 1436 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).

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_001136.3, NP_001127.1

RefSeq Size: 1414 bp

RefSeq ORF: 1215 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]
Transcript Variant: This variant (1, also known as RAGE) represents the predominant transcript, and encodes 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.