

## Product datasheet for **RG233834**

### **RAGE (AGER) (NM\_001206940) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAGE (AGER) (NM_001206940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGER
Synonyms:	RAGE; SCARJ1; sRAGE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233834 representing NM_001206940 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCTCAGTCTGTGGGGGCGAGTAGTAGGTGCTC  
AAAACATCACAGCCCGATTGGCGAGCCACTGGTCTGAAGTGAAGGGGCCCCAAGAAACCACCCCA  
GCGGCTGGAATGGAACTGAACACAGGCCGGACAGAAGCTTGAAGGTCTGTCTCCCAGGGAGGAGGC  
CCCTGGGACAGTGTGGCTCGTGTCTTCCCAACGGCTCCCTCTTCCCTCCGGCTGTGGGATCCAGGATG  
AGGGGATTTTCCGGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACCTACCGAGTCCGTGT  
CTACCAGATTCCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACTCACGGCTGGTGTCCCAATAAG  
GTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGGGACTCTTAGCTGGCACTTGATGGGAAGCCCC  
TGGTGCCTAATGAGAAGGGAGTATCTGTGAAGGAACAGACCAGGAGACACCCTGAGACAGGGCTCTTAC  
ACTGCAGTCGGAGCTAATGGTGACCCAGCCCGGGGAGGAGATCCCCGTCCCACCTTCTCCTGTAGCTTC  
AGCCCAGGCCTTCCCGACACCGGGCCTTGCGCACAGCCCCATCCAGCCCCGTGTCTGGGAGCCTGTGC  
CTCTGGAGGAGGTCCAATTGGTGGTGGAGCCAGAAGGTGGAGCAGTAGCTCCTGGTGAACCGTAACCCT  
GACCTGTGAAGTCCCTGCCAGCCCTCTCCTCAAATCCACTGGATGAAGGATGGTGTGCCCTTGCCCTT  
CCCCCAGCCCTGTGCTGATCCTCCCTGAGATAGGGCCTCAGGACCAGGGAACCTACAGCTGTGTGGCCA  
CCATTCCAGCCACGGGCCCCAGGAAAGCCGTGCTGTACGATCAGCATCATCGAACCGAGGAGGAGGG  
GCCAACTGCAGGTGAGGGTTTGATAAAGTCAGGGAAGCAGAAGTAGCCCCAACACATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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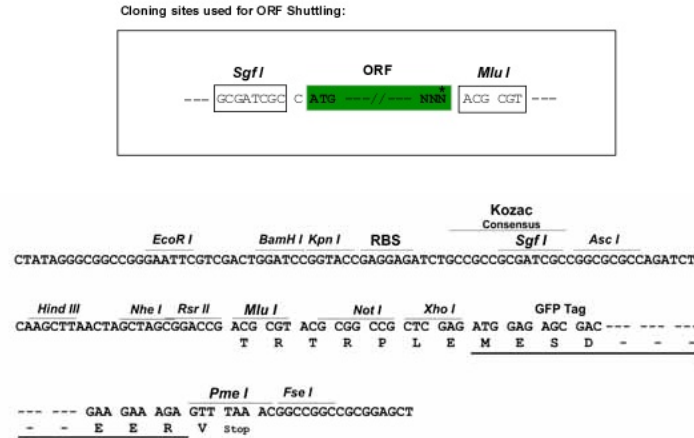
**Protein Sequence:** >RG233834 representing NM\_001206940  
 Red=Cloning site Green=Tags(s)

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKCKGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGG  
 PWDSVARVLPNGSLFLPAVGIQDEGIFRCQAMNRRNGKETKSNYRVRVYQIPGKPEIVDSASELTAGVPNK  
 VGTCVSEGSYPAGTLSWHLDGKPLVPNEKGVSVKEQTRRHPEGLFTLQSELMVTPARGGDRPTFSCSF  
 SPGLPRHRALRTAPIQPRVWEPVPLEEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSQIHWMKDGVPLPL  
 PPSVLILPEIGPQDQGTYSVATHSSHGPPQESRAVSISIIIEPGEEGPTAGEGFDKVFREAEDSPQHM

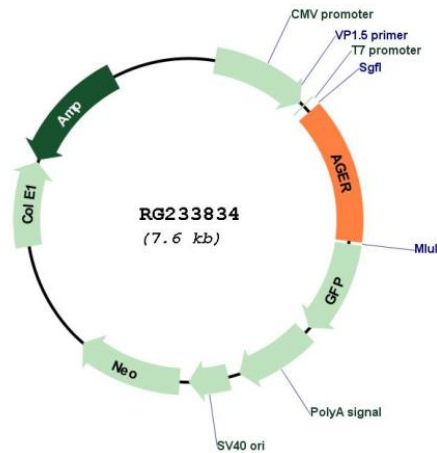
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001206940

**ORF Size:** 1041 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001206940.1</a> , <a href="#">NP_001193869.1</a>
<b>RefSeq Size:</b>	1463 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	177
<b>UniProt ID:</b>	<a href="#">Q15109</a>
<b>Cytogenetics:</b>	6p21.32
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	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]