

## Product datasheet for RR212374

### Ager (NM\_053336) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ager (NM_053336) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ager
Synonyms:	RAGE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212374 representing NM_053336 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAACGGGGACAGTAGCTAGAGCCTGGTACTGGTCTTGCTCTGTGGGGAGCCGTAGCTGGTGGTC  
AGAACATCACAGCCGGATCGGAGAGCCACTTATGCTGAGCTGTAAGGGGGCCCCAAGAAGCCAACCCA  
GAAGCTAGAATGGAACTGAACACAGGAAGGACTGAAGCTTGAAGGTCTCTCTCCCCAGGGAGACCCC  
TGGGACAGTGTGGCTCGAATCCTCCCAATGGTCACTCCTCTCCAGCTATCGGAATTGTCGATGAGG  
GGACTTCCGGTGTCTGGGCAACTAACAGCTTGGGAAGGAGGTCAAGTCCAACACCGAGTCCGAGTCTA  
CCAGATTCTGGGAAGCCGAAATTGTGAATCCTGCCTCTGAACTCACAGCCAATGTCCCTAATAAGGTG  
GGGACGTGTGTCTGAGGGGAGCTACCCTGCAGGGACCCTTAGCTGGCACTTGGATGGGAAACCTCTGA  
TTCCTGATGGCAAAGGGACAGTTGTGAAGGAGGAGACCAGGAGGCACCCTGAGACGGGACTCTTACGCT  
TCGGTCAGAGCTCACAGTGACCCAGCCCAAGGAGGGACCACTCCTACCTATTCTGCAGCTTACGCTG  
GGCCTTCTCGGCACAGACCCCTGAACACAGCCCCATCCAGCCCCGAGTCAGGGAGCCCCCTGCCTCCAG  
AGGGCATTACAGCTGTTGGTTGAGCCTGAAGGTGGAACAGTCGCTCCTGGTGGGACCGTACCCCTGACCTG  
TGCCATCTCTGCCAGCCTCCCCCTCAAATCCACTGGATAAAAGATGGCACACCCTGCCCTTGCCCCC  
AGCCCTGTGCTGCTCCTCCCTGAGGTAGGGCATGAGGATGAGGGCATCTACAGCTGCGTGCCACCCACC  
CTAGCCATGGACCTCAGGAAAGCCCTCCTGTCAACATCAGGGTCACAGAAACCGGTGATGAAGGACAAGC  
TGCAGGCTCTGTGGATGGGTCTGGGCTGGGAACGCTAGCCCTGGCCTTAGGGATCCTGGGAGGCTGGGA  
ATAGCCGCTCTGCTCATTGGGGCCATCCTGTGGCGAAAACGACAACCCAGACTCGAGGAGAGGAAGGCC  
CAGAAAGCCAGGAGGACGAGGAGGAACGTGCAGAGCTGAATCAGTCAGAGGAAGCGGAAATGCCAGAGAA  
TGGTGCAGGGGGACCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR212374 representing NM\_053336  
Red=Cloning site Green=Tags(s)

MPTGTVARAWLVLALWGAVAGGQNITARIGEPLMLSCKGAPKKPTQKLEWKLNTGRTEAWKVLSPQGD  
WDSVARILPNGSLLLPAIGIVDEGTFRCRATNRLGKEVKSNYRVRVYQIPGKPEIVNPASELTANVPNKV  
GTCVSEGSYPAGTLSWHLDGKPLIPDGKGTVVKEETRRHPETGLFTRSELTVTPAQGGTTPTYSCFSL  
GLPRHRPLNTAPIQPRVREPLPPEGIQLLVEPEGGTVPAGGTVTLTCAISAQPPPQIHWIKDGTPLPLAP  
SPVLLLPEVGHEDGIYSCVATHPSHGPOESPVNIRVTETGDEGQAAGSVDGSLGLLALGILGGLG  
IAALLIGAILWRKRQPRLEERKAPESQEDEEERAE LNQSEEAEMPENGAGGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

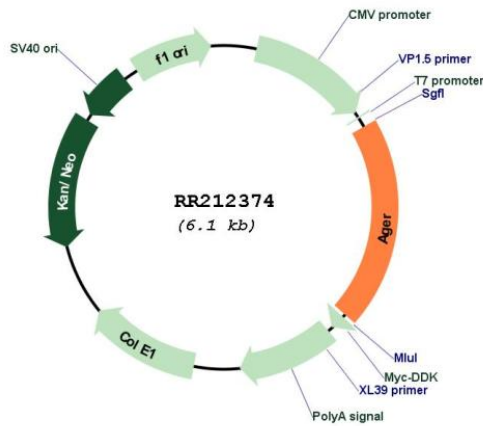
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_053336

<b>ORF Size:</b>	1206 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_053336.2</a> , <a href="#">NP_445788.2</a>
<b>RefSeq Size:</b>	1443 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	81722
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	42.6 kDa
<b>Gene Summary:</b>	cell surface receptor for various molecules, including the amyloidogenic form of serum amyloid A [RGD, Feb 2006]