

## Product datasheet for **RR202700**

### Homer2 (NM\_053309) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Homer2 (NM_053309) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Homer2
Synonyms:	Vesl-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202700 representing NM_053309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAGAGCAGCCCATTTCCACCACGCGAGCGCACGTCTTCCAGATTGACCCAGCACCAAGAAGAACT  
GGGTGCCGGCAAGCAAGCAGGCCGTCACGTCTTCTACTTCTACGATGTCACCAGGAACAGCTATCGGAT  
CATCAGTGTGGATGGAGCAAGTAATCATAAACAGCACCATCACCCGAACATGACGTTACCAAAAAT  
TCACAGAAGTTCGGGCAGTGGGCTGACAGCAGGGCCAACACCGTGTTCGGTCTGGGATTCTCCTCAGAGC  
AGCAGCTCACAAAGTTTGCAGAGAAATCCAGGAGGTAAGAGAAGCTGCCAGGTTAGCCAGAGACAAGTC  
CCAGGAGAAAAATCGAGACGTCAAGTAATCATTCCCAAGAATCTGGGTGTGAAACCCCGTCTTCCACTCAG  
GCATCCAGCGTCAATGGGACAGATGACGAGAAAGCCTCCCATGCGAGTCCGGCCGACACACCTCAAGT  
CTGAGAATGACAAGCTGAAGATCGCTTTGACACAGAGTGCTGCCAATGTGAAGAAGTGGGAGATCGAGCT  
GCAGACCCTGCGGGAGAGCAATGCCCGGCTGACCACCGCGCTGCAGGAGTCGGCGCCAGTGTAGAACAG  
TGAAGCGGCAATTCTCCATCTGCAGAGATGAGAATGACAGGCTCCGCAGCAAGATTGAGGAGCTGGAAG  
AACAGTGCAGTGAAGTCAACAGGGAGAAGGAAAGAACACCCAGCTGAAGAGGAGGATTGAGGAGCTGGA  
GTCAGAGGTCAGAAAAAGGAAATGGAGTTGAAGGATCTCCGCAAAACAAAGTGAATCATACCTCAGCTC  
ATGTCCGAGTGTGAATATGTCTCTGAGAAGTTAGAGGCTGCAGAAAGAGACAATCAAAAATGGAAGACA  
AAGTGCAGTCTCTAAAGACAGACATCGAGGAGAGTAAATACCGGCAGCGCCACCTGAAGGGGAGCTCAA  
GAGCTTCTTGAGGTGCTGGACGGAAAGATCGATGACCTCCACGACTTCCGCCGAGGGCTCTCCAAGCTA  
GGCACGGATAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202700 representing NM\_053309  
 Red=Cloning site Green=Tags(s)

MGEQPIFTTRAHVFDIDPSTKKNWVPASKQAVTVSYFYDVTRNSYRIISVDGAKVIINSTITPNMTFTKT  
 SQKFGQWADSRANTVFGGLFSSEQQLTKFAEKQEVREARLARDKSQEKIETSSNHSQESGCETPSSTQ  
 ASSVNGTDDEKASHASPADTHLKSENDKLIKIALTQSAANVKKWEIELQTLRESNARLTTALQESAASVEQ  
 WKRQFSICRDENDRLRSKIEELEEQCGEINREKENTQLKRRIEELESEVREKEMELKDLRKQSEIIPQL  
 MSECEYVSEKLEAAERDNQNLLEDKVRSLKTDIEESKYRQRHLKGELKSFLEVLDDGKIDDLHDFRRLSKL  
 GTDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

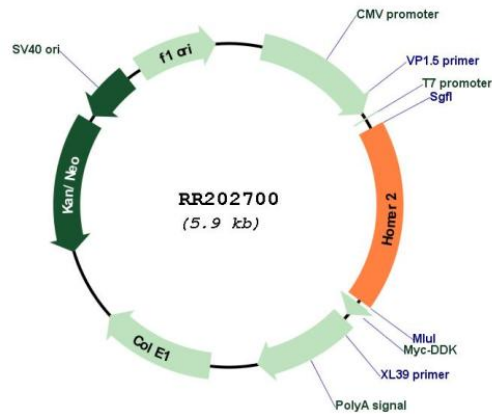
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_053309

<b>ORF Size:</b>	1062 bp
<b>OTI Disclaimer:</b>	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>
<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_053309.1</a> , <a href="#">NP_445761.1</a>
<b>RefSeq Size:</b>	1994 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	29547
<b>UniProt ID:</b>	<a href="#">O88801</a>
<b>Cytogenetics:</b>	1q31
<b>MW:</b>	40.6 kDa
<b>Gene Summary:</b>	binds metabotropic glutamate receptors mGluR1 and mGluR5 [RGD, Feb 2006]