

## Product datasheet for SC317418

### HOMER2 (NM\_199331) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HOMER2 (NM_199331) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOMER2
Synonyms:	ACPD; CPD; HOMER-2; HOMER2A; HOMER2B; Vesl-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317418 representing NM_199331. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGAGAACAGCCCATCTTCACCACCCGAGCGCATGTCTTCCAGATTGACCCCAACACCAAGAAGAAC
TGGATGCCTGCGAGCAAGCAGGCGGTACCGTTTCCTACTTCTATGATGTACAAGGAACAGCTATCGG
ATCATCAGTGTGGACGGAGCCAAGGTGATCATAAACAGCACAATCACACCGAATATGACCTTCACCAAA
ACGTCACAGAAGTTTGGCAGTGGGCCGACAGCAGAGCCAACACAGTGTGGTTGGGTTTTCTCT
GAGCAGCAGCTGACAAAGTTTGCAGAGAAATCCAGGAGGTGAAAGAAGCTGCCAAGATAGCCAAAGAC
AAGACGCAGGAGAAAATCGAGACCTCAAGTAATCATTCCAAGCATCCAGTGTCAACGGGACGGACGAT
GAAAAGGCCTCTCAGCCGGTCCAGCCAACACACCTGAAGTCTGAGAATGACAAGCTGAAGATTGCC
TTGACGCAGAGCGCAGCCAACGTGAAGAATGAGATCAACAGAGAGAAGGAGAAGACACGCAGCTGAAG
AGGAGGATCGAGGAGCTGGAGGCAGAGCTCCGAGAAAAGGAGACAGAGCTGAAAGATCTCCGAAAACAA
AGTGAAATCATACCTCAGCTCATGTGAGAGTGCGAATATGTCTCTGAGAAGCTAGAGGCGGCAGAGAGA
GACAATCAAACTGGAAGACAAAGTGC GTTCTTAAAGACAGACATTGAGGAGAGCAAATACCGACAG
CGCCACCTGAAGGTGGAGTTGAAGAGCTTCCTGGAGGTGCTGGACGGGAAGATTGACGACCTGCATGAC
TCCCGGAGGGCTCTCCAAGCTGGGCACCGATAACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_199331
Insert Size:	867 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_199331.2</a></u>
<b>RefSeq Size:</b>	1807 bp
<b>RefSeq ORF:</b>	867 bp
<b>Locus ID:</b>	9455
<b>Cytogenetics:</b>	15q25.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	32.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the homer family of dendritic proteins. Members of this family regulate group 1 metabotropic glutamate receptor function. The encoded protein is a postsynaptic density scaffolding protein. Alternative splicing results in multiple transcript variants. Two related pseudogenes have been identified on chromosome 14. [provided by RefSeq, Jun 2011]</p> <p>Transcript Variant: This variant (3), also known as HOMER-2C, uses an alternate splice site compared to variant 1, that results in a frameshift. The resulting isoform (3) is shorter than isoform 1.</p>