

## Product datasheet for **SC319896**

### **HOMER3 (NM\_004838) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HOMER3 (NM_004838) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOMER3
Synonyms:	HOMER-3; VESL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004838.2  
 GCGGCGCGGAGGGCGCGGGCCCGGGAGCCAGGGAGCGAGCGGGGCGCCCGCAGCGCGGA  
 GTCAGCGCCGCGGGGGCCGACCCGACTCGCGCCTGGACTCGCGGGGCGCCGACTGG  
 CAGGGGGCCAAACCAGTGTCTCTGCCACCTCTCTGGCTGCCCCCTAGAGCCTGCCATCC  
 CAGCCTGACCAATGTCCACAGCCAGGGAGCAGCCAATCTTACGACACGCGGCACGTGT  
 TCCAAATTGACCCAGCCACCAAGCGAACTGGATCCCAGCGGGCAAGCACGCACTACTG  
 TCTCCTATTTCTACGATGCCACCCGCAATGTGTACCGCATCATCAGCATCGGAGGCGCA  
 AGGCCATCATCAACAGCACTGTCACTCCCAACATGACCTTACCAAAAACCTCCCAGAAAT  
 TCGGGCAGTGGGCGACAGTCCGCCAACACAGTCTACGGCTTGGGCTTTGCCTCTGAAC  
 AGCATCTGACACAGTTTCCGAGAAAGTTCCAGGAAGTGAAGGAAGCAGCCAGGCTGGCCA  
 GGGAGAAATCTCAGGATGGCGGGGAGCTCACCAGTCCAGCCCTGGGGCTCGCTCCCACC  
 AGGTGCCCCGAGCCCTCTCGTCAAGTCCCAACGGCCCGGCGAGGAAAACTGTTCCGCA  
 GCCAGAGCGCTGATGCCCCGGCCACAGAGCGCGAGCGGCTAAAGAAGATGTTGTCTG  
 AGGGCTCCGTGGCGAGGTACAGTGGGAGGCCGAGTTTTTTCGACTGCAGGACAGCAACA  
 ACAAGCTGGCAGGCGCCCTGCGAGAGGCCAACGCCCGCAGCCAGTGGAGGCAGCAGC  
 TGGAGGCTCAGCGTGCAGAGGCCGAGCGGCTGCGGCAGCGGGTGGCTGAGCTGGAGGCTC  
 AGGCAGCTTACAGAGTGACCCCCACCGGTGAGAAGGAGGGGCTGGGCCAGGGCCAGTCCG  
 TGGAACAGCTGGAAGCTCTGGTGCAAACCAAGGACCAGGAGATTAGACCCTGAAGAGTC  
 AGACTGGGGGGCCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAGGAGACTCAGCAGAAGG  
 TGCAGGACCTGGAGACCCGCAATGCGGAGTTGGAGCACCAGCTGCGGGCGATGGAGCGCA  
 GCCTGGAGGAGGCACGGGAGAGCGGGAGCGGGCGCGGGCTGAGGTGGGCCGGCAGCGC  
 AGCTGCTGGACGTCAAGCTGTTTGGAGTGTGAGTGTGAGTGTGAGGCTGAGGGCTGGCCCGCTGG  
 CTGAGGCTGCGCCCTGAGCCGGGGCTGGTTTTCTATGAACGATTCCGGCTGGGATGCGG  
 GCCAGGCTGCAGCGGCATAGTTGGGCCATTCTGCTGAAAGGGACTGGGGGGTCCCA  
 ACTTAGCCCTGGGTGGGCCGGGGCGGGCTGGGCTGGGGTGGGCCCCAGTCGGCTCTGGTT  
 GTTGGCAGCTTTGGGGCTGTTTTGAGCTTCTCATTGTGTAGAATTTCTAGATCCCCGA  
 TTACATTTCTAAGCGTGAA  
 A

- Restriction Sites:** Please inquire
- ACCN:** NM\_004838
- 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).
- OTI Annotation:** 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.
- 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\\_004838.2](#), [NP\\_004829.2](#)

**RefSeq Size:** 1561 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 9454

**UniProt ID:** [Q9NSC5](#)

**Cytogenetics:** 19p13.11

**Domains:** WH1

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]  
Transcript Variant: This variant (2), termed Homer-3A01, differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein (isoform 1).