

## Product datasheet for **SC326465**

### HOMER3 (NM\_001145722) Human Untagged Clone

#### Product data:

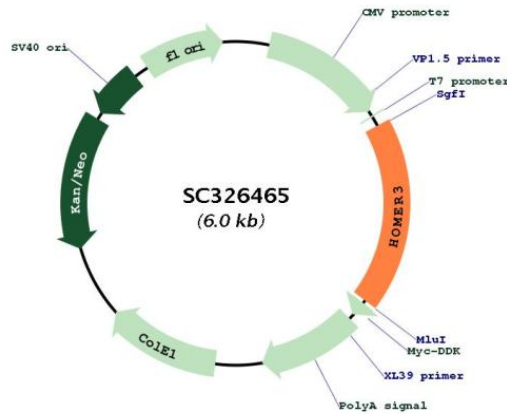
Product Type:	Expression Plasmids
Product Name:	HOMER3 (NM_001145722) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOMER3
Synonyms:	HOMER-3; VESL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326465 representing NM_001145722. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCACAGCCAGGGAGCAGCCAATCTTCAGCACACGGGCGCACGTGTTCCAAATTGACCCAGCCACC
AAGCGAAACTGGATCCCAGCGGGCAAGCACGCACTCACTGTCTCCTATTCTACGATGCCACCCGCAAT
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TTCACAAAACCTCCCAGAAGTTCGGGCAGTGGGCCGACAGTCGCGCCAACACAGTCTACGGCCTGGGC
TTTGCCTCTGAACAGCATCTGACACAGTTTCCGAGAAGTTCAGGAAGTGAAGGAAGCAGCCAGGCTG
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CCCCGAGCCCTCTCGTCAAGTCCAAACGGCCCGGCGAGGAAAACTGTTCCGCAGCCAGAGCGCTGAT
GCCCCCGCCCCACAGAGCGCGAGCGGCTAAAGAAGATGTTGTCTGAGGGCTCCGTGGGCGAGGTACAG
TGGGAGGCGGAGTTTTTCGCACTGCAGGACAGCAACAAGCTGGCAGGCGCCCTGCGAGAGGCCAAC
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GTGGTGAAGTGGAGGCTCAGGCAGCTTTCAGAGGTGACCCCAACCGGTGAGAAGGAGGGGCTGGGCCAG
GGCCAGTCTGGAACAGCTGGAAGCTCTGGTGAACAAGGACCAGGAGATTCAGACCCTGAAGAGT
CAGACTGGGGGGCCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAAGGAGTGCAGGAGTGCAGGAC
CTGGAGACCCGCAATGCGGAGTTGGAGCACAGCTGCGGGCGATGGAGCGCAGCCTGGAGGAGGCACGG
GCAGAGCGGGAGCGGGCGCGGGCTGAGGTGGCCGGGCGAGCGAGCTGCTGGACGTGAGCCTGTTTGAG
CTGAGTGAAGTGCAGTGGGGCTGGCCCCCTGGCTGAGGCTGCGCCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001145722

**Insert Size:** 1086 bp

**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\\_001145722.1](#)

**RefSeq Size:** 1859 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 9454

UniProt ID: [Q9NSC5](#)

Cytogenetics: 19p13.11

Protein Families: Druggable Genome

MW: 39.8 kDa

**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 (1), termed Homer-3A01, encodes the longest isoform (1). Both variants 1 and 2 encode the same protein (isoform 1).