

# Recombinant Full Length Human HOMER3 Protein, GST-tagged

**Cat. No.** HOMER3-3692HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human HOMER3 full-length ORF ( NP_004829.2, 1 a.a. - 361 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	361 amino acids
<b>Description</b>	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
<b>Molecular Mass</b>	66.3 kDa
<b>AA Sequence</b>	MSTAREQPIFSTRAHV FQIDPATKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAII NSTVTPNMTFTKTSQKFGQWADSRANTVYGLGFASEQHLTQFAEKFQEVKEAARL

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AREKSQDGGELTSPALGLASHQVPPSPLVSANGPGEEKLFRSQSADAPGPTERERL  
 KKMLSEGSVGEVQWEAEFFALQDSNNKLAGALREANAAAAQWRQQLEAQRAEAE  
 RLRQRVAELEAQAASEVTPTGEKEGLGQQQSLEQLEALVQTKDQEIQTLKSQTGGP  
 REALEAAEREETQQKVQDLETRNAELEHQLRAMERSLEEARAERERARAEVGRAA  
 QLLDVRLFELSELREGLARLAEAAP

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [HOMER3 homer homolog 3 \(Drosophila\) \[ Homo sapiens \]](#)

**Official Symbol** [HOMER3](#)

**Synonyms**  
 HOMER3; homer homolog 3 (Drosophila); homer protein homolog 3; HOMER 3;  
 Homer, neuronal immediate early gene, 3; VESL3; HOMER-3;

**Gene ID** [9454](#)

**mRNA Refseq** [NM\\_001145721](#)

**Protein Refseq** [NP\\_001139193](#)

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<b>MIM</b>	604800
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<b>UniProt ID</b>	Q9NSC5
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