

## Product datasheet for PH326721

### HOMER3 (NM\_001145724) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HOMER3 MS Standard C13 and N15-labeled recombinant protein (NP_001139196)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226721
Predicted MW:	35.8 kDa
Protein Sequence:	>RC226721 representing NM_001145724 Red=Cloning site Green=Tags(s)

MSTAREQPIFSTRAHVFQIDPATKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAIINSTVTPNMTF  
TKTSQKFGQWADSRANTVYGLGFASEQHLTQVPPSPLVSANGPGEEKLFRSQSADAPGPTERERLKKMLS  
EGSVGEVQWAEFFALQDSNNKLAGALREANAAAAQWRQQLAQRAEAERLRQRVAELEAAASEVTPTG  
EKEGLGQGSLEQLEALVQTKDQEIQTLKSTGGPREALEAAEREETQQKVQDLETRNAELEHQLRAMER  
SLEEARAERERARAIEVGRAAQLLDVSLFELSELREGLARLAEAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_001139196</a></u>
RefSeq ORF:	975
Synonyms:	HOMER-3; VESL3
Locus ID:	9454
UniProt ID:	<u><a href="#">Q9NSC5</a></u>



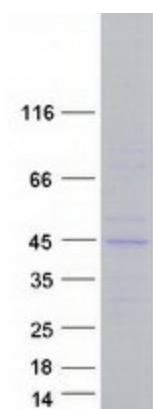
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Cytogenetics: 19p13.11

**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]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified HOMER3 protein (Cat# [TP326721]). The protein was produced from HEK293T cells transfected with HOMER3 cDNA clone (Cat# [RC226721]) using MegaTran 2.0 (Cat# [TT210002]).