

Product datasheet for RC226721L3

HOMER3 (NM_001145724) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: HOMER3

Synonyms: HOMER-3; VESL3

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

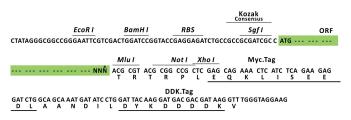
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide Sequence: The ORF insert of this clone is exactly the same as(RC226721).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001145724

ORF Size: 975 bp



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OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

RefSeq: <u>NM_001145724.1</u>, <u>NP_001139196.1</u>

RefSeq ORF: 978 bp

Locus ID: 9454

UniProt ID: Q9NSC5

Cytogenetics: 19p13.11

Protein Families: Druggable Genome

MW: 35.8 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 I 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]