

Product datasheet for RC226650

HOMER3 (NM 001145721) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HOMER3 (NM_001145721) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: HOMER3

Synonyms: HOMER-3; VESL3

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC226650 representing NM_001145721
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTCCACAGCCAGGGAGCAGCCAATCTTCAGCACACGGGCGCACGTGTTCCAAATTGACCCAGCCACCA AGCGAAACTGGATCCCAGCGGGCAAGCACGCACTCACTGTCTCCTATTTCTACGATGCCACCCGCAATGT GTACCGCATCATCAGCATCGGAGGCGCCAAGGCCATCATCAACAGCACTGTCACTCCCAACATGACCTTC ACCAAAACTTCCCAGAAGTTCGGGCAGTGGGCCGACAGTCGCGCCAACACAGTCTACGGCCTGGGCTTTG GGAGAAATCTCAGGATGGCGGGGAGCTCACCAGTCCAGCCCTGGGGCTCGCCTCCCACCAGGTGCCCCCG AGCCCTCTCGTCAGTGCCAACGGCCCCGGCGAGGAAAAACTGTTCCGCAGCCAGAGCGCTGATGCCCCCG GCCCCACAGAGCGCGAGCGGCTAAAGAAGATGTTGTCTGAGGGCTCCGTGGGCGAGGTACAGTGGGAGGC CGAGTTTTTCGCACTGCAGGACAGCAACAACAAGCTGGCAGGCGCCCTGCGAGAGGCCAACGCCGCCGCA GCCCAGTGGAGGCAGCAGCTGGAGGCTCAGCGTGCAGAGGCCGAGCGGCTGCGGCAGCGGGTGGCTGAGC TGGAGGCTCAGGCAGCTTCAGAGGTGACCCCCACCGGTGAGAAGGAGGGGCTGGGCCAGGGCCAGTCGCT GGAACAGCTGGAAGCTCTGGTGCAAACCAAGGACCAGGAGATTCAGACCCTGAAGAGTCAGACTGGGGGG CCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAGGAGACTCAGCAGAAGGTGCAGACCCGCAATGCGGAGT TGGAGCACCAGCTGCGGGCGATGGAGCGCAGCCTGGAGGAGGCAGCGGGCAGAGCGGGCGCGGGC GCCCGCCTGGCTGAGGCTGCGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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HOMER3 (NM_001145721) Human Tagged ORF Clone - RC226650

Protein Sequence: >RC226650 representing NM_001145721

Red=Cloning site Green=Tags(s)

MSTAREQPIFSTRAHVFQIDPATKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAIINSTVTPNMTF TKTSQKFGQWADSRANTVYGLGFASEQHLTQFAEKFQEVKEAARLAREKSQDGGELTSPALGLASHQVPP SPLVSANGPGEEKLFRSQSADAPGPTERERLKKMLSEGSVGEVQWEAEFFALQDSNNKLAGALREANAAA AQWRQQLEAQRAEAERLRQRVAELEAQAASEVTPTGEKEGLGQGQSLEQLEALVQTKDQEIQTLKSQTGG PREALEAAEREETQQKVQTRNAELEHQLRAMERSLEEARAERERARAEVGRAAQLLDVSLFELSELREGL ARLAEAAP

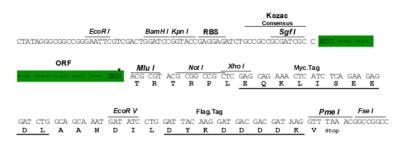
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054 e09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM 001145721

ORF Size: 1074 bp

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).



Cytogenetics:

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: <u>NM 001145721.1</u>, <u>NP 001139193.1</u>

19p13.11

 RefSeq ORF:
 1077 bp

 Locus ID:
 9454

 UniProt ID:
 Q9NSC5

Protein Families: Druggable Genome

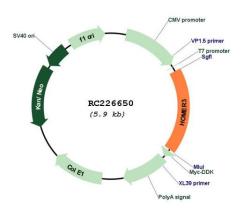
MW: 39.3 kDa

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

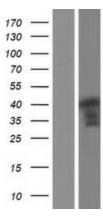
Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic 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]

Product images:



Circular map for RC226650





Western blot validation of overexpression lysate (Cat# [LY428985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226650 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).