

Product datasheet for RC204165

HOMER2 (NM_004839) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HOMER2 (NM_004839) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: HOMER2

Synonyms: ACPD; CPD; DFNA68; HOMER-2; VESL-2

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204165 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCCGCCCCCCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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HOMER2 (NM_004839) Human Tagged ORF Clone - RC204165

Protein Sequence: >RC204165 protein sequence

Red=Cloning site Green=Tags(s)

MGEQPIFTTRAHVFQIDPNTKKNWMPASKQAVTVSYFYDVTRNSYRIISVDGAKVIINSTITPNMTFTKT SQKFGQWADSRANTVFGLGFSSEQQLTKFAEKFQEVKEAAKIAKDKTQEKIETSSNHSQASSVNGTDDEK ASHAGPANTHLKSENDKLKIALTQSAANVKKWEIELQTLRESNARLTTALQESAASVEQWKRQFSICRDE NDRLRNKIDELEEQCSEINREKEKNTQLKRRIEELEAELREKETELKDLRKQSEIIPQLMSECEYVSEKL EAAERDNQNLEDKVRSLKTDIEESKYRQRHLKVELKSFLEVLDGKIDDLHDFRRGLSKLGTDN

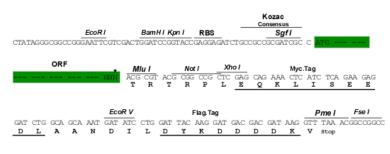
TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6174 h03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM 004839

ORF Size: 1029 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).



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 004839.4</u>

RefSeq Size: 1976 bp
RefSeq ORF: 1032 bp
Locus ID: 9455
UniProt ID: Q9NSB8
Cytogenetics: 15q25.2
Domains: WH1

Protein Families: Druggable Genome

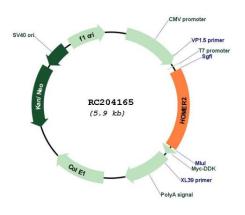
MW: 39.5 kDa

Gene Summary: This gene encodes a member of the homer family of dendritic proteins. Members of this

family regulate group 1 metabotrophic glutamate receptor function. The encoded protein is a postsynaptic density scaffolding protein. Alternative splicing results in multiple transcript variants. Two related pseudogenes have been identified on chromosome 14. [provided by

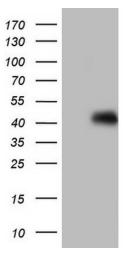
RefSeq, Jun 2011]

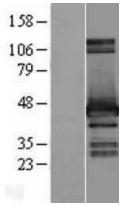
Product images:

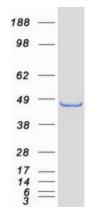


Circular map for RC204165









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOMER2 (Cat# RC204165, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOMER2 (Cat# [TA806246]). Positive lysates [LY401516] (100ug) and [LC401516] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401516]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204165 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified HOMER2 protein (Cat# [TP304165]). The protein was produced from HEK293T cells transfected with HOMER2 cDNA clone (Cat# RC204165) using MegaTran 2.0 (Cat# [TT210002]).