

Product datasheet for MR205426

Homer3 (NM_011984) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Homer3 (NM_011984) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Homer3
Synonyms:	AW146114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205426 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCACAGCCAGGGAACAGCCAATCTTCAGCACCCGGGCGCACGTATTCCAGATCGACCCCACTACAA
AGCGGAACTGGATCCCCGCCGGAAGCAGCAGCACTTACCGTGTCTATTTCTATGATGCAACCCGAAATGT
GTACCGCATCATCAGCATCGGGGTGCCAAGGCCATCATCAACAGCACTGCTACTCCCAACATGACCTTC
ACCAAACTCTCAGAAGTTCGGCAATGGGCAGACAGTCGAGCCAACACTGTCTACGGCCTAGGCTTTG
CCTCTGAACAGCAGCTGACCCAGTTTGCTGAGAAGTTTCAGGAGGTGAAAGAAGCTGCCAGGCTGGCTCG
AGAGAAATCTCAAGATGGTGGAGAATCACTAGTACTGGCTGGCCCTTGCCATCAGGTTCCCTCCA
AGCCCCCTTGCTCAGCACCAATGGTCCAGGCGAGGAAAAGCTGTTCCGTAGCCAGAGTGCGGACACCCCTG
GCCCCACCGAGCGGGAACGGTTGAAGAAGATGCTGTGAGAAGGCTCTGTAGGGGAGGTCCAGTGGGAGGC
AGAGTTCTTCGCGCTTCAGGACAGCAACCAGAGGTTGGCGGGAGCCCTTCGGGAGGCAACGCAGCGGCC
ACTCAGTGGAGGCAACAACCTGGAGGTCCAACGTGCAGAGGCTGAACTCTTGCAGCAGCGGTAGCAGAGC
TGGAGGCCAGGTGGCTGTAGAGCCAGTCCGGCAGGAGAGAAAGAAGCAACCAGCCAGTCCGGTGGAGCA
GCTGGAGGCTCGGGTGCAGACCAAGGACCAGACTTTGAAGAATCAGAGCACTGGCACCCGGAATGCAGAGCTGGAGC
GACACTGCCGAGCGGAAGAGACACAGCAGCAAGTTCAGGACTGGAGACCCGGAATGCAGAGCTGGAGC
AGCAGCTGCGGGCGATGGAGTGCAACCTGGAGGAGGCGCGGGCCGAGCGGGAGCGCGCACGGGCGGAGGT
GGGCCGGGCTGCCAGCTGCTGGATGTTTCGGCTGTTTGTAGCTCAGCGAGCTGCGTGAAGGCTGGCACGC
CTGGCAGAGGCAGCACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205426 protein sequence
 Red=Cloning site Green=Tags(s)

MSTAREQPIFSTRAHVFQIDPTTKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAIINSTVTPNMTF
 TKTSQKFGQWADSRANTVYGLGFASEQQLTQFAEKFQEVKEAARLAREKSQDGGFEFTSTGLALASHQVPP
 SPLVSTNGPGEEKLFRSQSADTPGPTERERLKKMLSEGSVGEVQWEAEFFALQDSNQRLAGALREANAAA
 TQWRQQLLEVQRAEALLRQRVALEAQAQVAVEPVRAGEKEATSQSVEQLEARVQTKDQTLKNQSTGTREAP
 DTAEREETQQVQDLETRNAELEQQLRAMECNLEEARAERERARAQVLEAQLLDVRLFELSELREGLAR
 LAEAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011984

ORF Size: 1071 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: [NM_011984.1](#)

RefSeq Size: 2436 bp

RefSeq ORF: 1071 bp

Locus ID: 26558

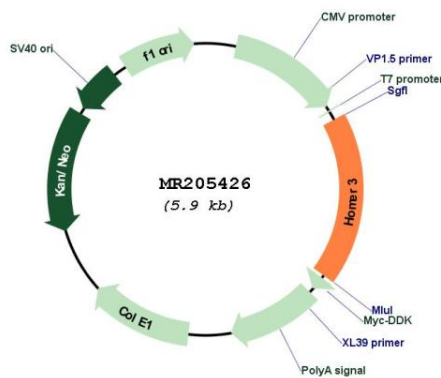
UniProt ID: [Q99JP6](#)

Cytogenetics: 8 B3.3

MW: 39.7 kDa

Gene Summary: Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses (By similarity). Negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway. Acts by competing with calcineurin/PPP3CA for NFAT protein binding, hence preventing NFAT activation by PPP3CA (PubMed:18218901).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205426