

Product datasheet for MR217100

Homer2 (NM_001164086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Homer2 (NM_001164086) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Homer2
Synonyms:	9330120H11Rik; AW539445; CPD; Vesl-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217100 representing NM_001164086 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAACAGCCCATCTTCACCACGCGAGCGCACGTCTCCAGATTGACCCAGCACCAAGAAGAACT
GGGTGCCGGCAAGCAAGCAGGCCGTACCGTTTCTACTTCTATGATGTCACCAGGAACAGCTATCGGAT
CATCAGTGTGGATGGAGCCAAGGTGATCATAAACAGCACTATCACCCGAACATGACTTTCACAAAACG
TCACAGAAAGTTCGGCAGTGGGCTGACAGCAGAGCCAACACCGTGTTCGGTTTGGGATTCTCCTCCGAGC
TGCAGCTCACGAAGTTTGCAGAGAAGTTCCAGGAGGTAAGAGAAGCTGCCAGGCTAGCCAGAGACAAGTC
CCAGGAGAAAACCGAGACCTCCAGCAATCATTCCAAGCATCCAGCGTCAATGGCACAGACGACGAAAAG
GCCTCTCACGCGAGCCCAGCCGACACTCACCTCAAGTCTGAGAATGACAAGCTGAAGATCGCGCTGACAC
AGAGTGTGCCAAATGTGAAGAAGTGGGAGATGGAGCTGCAGACCCCTGCGGGAGAGCAACGCCCGGCTGAC
CACGGCACTGCAGGAGTCGGCGGCCAGCGTGGAGCAGTGGAAAGCGGCAAGTCTCCATCTGCAGGGACGAG
AATGACAGGCTCCGCAGCAAGATCGAGGAGCTGGAAGAAGTGCAGCGAGATAAACAGGGAGAAGGAGA
AGAACACACAGCTGAAGAGGAGGATCGAGGAGCTGGAGTCAGAGGTCGAGACAAGGAGATGGAGTTGAA
AGATCTCCGAAAACAGAGTGAATCATACTCAGTCTATGTCAGTGTGAATATGTCTGAGAAGTTA
GAGGCGGCCGAAAAGAGACAATCAAACCTTGAAGACAAAAGTCCGGTCTCTAAAGACAGACATCGAGGAGA
GTAATACCGACAGCGCCACCTGAAGGGGAGCTGAAGAGCTTCCTTGAGGTGCTGGATGGAAGATCGA
CGACCTCCATGACTTCCGTAGAGGACTCTCCAAGTTAGGCACAGATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_001164086.1](#), [NP_001157558.1](#)

RefSeq Size: 10966 bp

RefSeq ORF: 1032 bp

Locus ID: 26557

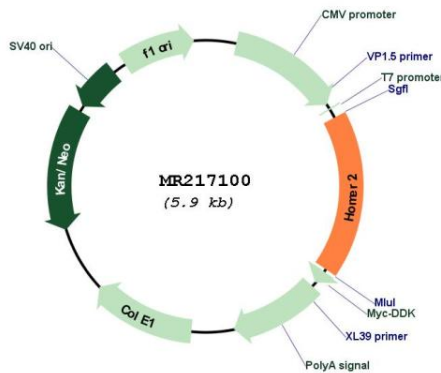
UniProt ID: [Q9QWW1](#)

Cytogenetics: 7 D3

MW: 39.9 kDa

Gene Summary: Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNMT3, 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. May also couple GRM1 to PI3 kinase through its interaction with AGAP2 (By similarity). Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses (By similarity) Required for normal hearing (PubMed:25816005). 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217100