

Product datasheet for **MC200760**

Homer3 (NM_011984) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Homer3 (NM_011984) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Homer3
Synonyms:	AW146114
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005773 sequence for NM_011984
 GCGGGGCGCGGGAGGGCGGGCCGGAGGCTGCAGCGACGACGACGCGGGGGGACAAACAAGTGACTCC
 TGTCAACCCTCTGGGTGCCCTTAGAGGCCATCCAGCCAACTGACCAATGTCCACAGCCAGGGAACAG
 CCAATCTTCAGCACCCGGGCGCAGTATTCAGATCGACCCACTACAAAGCGGAACTGGATCCCGGCCG
 GCAAGCACGCACTTACCTGTCTATTTCTATGATGCAACCCGAAATGTGTACCGCATCATCAGCATCGG
 GGGTGCCAAGGCCATCATCAACAGCACTGTCCTACGGCCTAGGCTTTGCCTCTGAACAGCAGTGACCC
 GGGCAATGGGACAGACAGTCGAGCCAACACTGTCTACGGCCTAGGCTTTGCCTCTGAACAGCAGTGACCC
 AGTTTGCTGAGAAGTTTCAGGAGGTGAAAGAAGCTGCCAGGCTGGCTCGAGAGAAATCTCAAGATGGTGG
 AGAATTCAGTACTGACTGGCCTGGCCCTTGCCTCCCATCAGGTTCCCTCAAGCCCTTGGTCAGCACCAAT
 GGTCCAGGCGAGGAAAAGCTGTTCCGTAGCCAGAGTGGGACACCCCTGGCCCCACCGAGCGGAAACGGT
 TGAAGAAGATGTGTGAGAAGGCTGTAGGGGAGGTCCAGTGGGAGGCAGAGTTCTTCGCGCTTACAGGA
 CAGCAACCAGAGGTTGGCGGGAGCCCTTCGGGAGGCCAACGCAGCGGCCACTCAGTGGAGGCAACAAGT
 GAGGTCCAACGTGCAGAGGCTGAACTCTTGCAGCAGCGGTAGCAGAGCTGGAGGCCAGGTGGCTGTAG
 AGCCAGTCCGGGAGGAGAGAAAGAAGCAACCAGCCAGTGGTGGAGCAGCTGGAGGCTCGGGTGCAGAC
 CAAGGACCAGACTTTGAAGAATCAGAGCACTGGCACCCGAGAGGCTCCAGACACTGCCGAGCGGAAGAG
 ACACAGCAGCAAGTTCAGGACCTGGAGACCCGGAATGCAGAGCTGGAGCAGCAGCTGCGGGCGATGGAGT
 GCAACCTGGAGGAGGCGGGGCCGAGCGGGAGCGCACGGGCGGAGGTGGGCCGGGCTGCGCAGCTGCT
 GGATGTTCCGGCTGTTGAGCTCAGCGAGCTGCGTGAAGGCTGGCACGCCTGGCAGAGGCAGCACCCTAG
 TCTGCCATGGAGTGTCTGCGCCCTCAAGGCGCCCTGGCAGGGGCCAGGGGACCCAGCTGTCTCTGAGCT
 TTGCACTGTGTAGAGTTTTCTAGAATCCTTGGGCAGTGTCTTACCCAGTTACATTTCTACGTGTGGCG
 TTGCTGTCCCTGGCTGCTGCTGCCCTGCGCCCAAGGACACTGCGAGGGAAGGCTGCACTAGTCATCCCC
 ATGGGGCAACAGAGGCTTTGGGATCCTGAGACCTGAAGGCCCTGTACTCATCCACCCATTCTCAAGTC
 AGACTGACAACCTCAAAGAGTGTCTTACTGAAGTCAGGGGCCACCAGCAGGTTTACAGTCACTGCTCTG
 AGCCTCAGCCTGGGCTGGCTCTTGGGGCCGAGATCTGGGAGGACGCGACCGTTCGGACAGTCTCCCTGCT
 TTCTGCCGCCAAGTGTCTGCCCACTTTCTCCTTGAAGCGTGGTTTTGTTGCTTGATCTTGGCCAGCT
 CAGCTTTGCGTTTGGCCTCCAGGCTGCGGTAAGGGAGCTGAGAATGTAAGTGGCAGCTTCCC
 AGGGACTGGTCCCCACCCCTACCCGTCCCCAGGTCCCACCCACCCCTTACTGGCCACACTTATGCTT
 GTCCCTGCATACCCATGCCTCCCTATACTACCTTCCCCTCCAGGATCATCTGTTTCCGCTTGTGATCTC
 TTTCTTTTCATCAAAATGCGAAGCCTCCAGTTTCTAGGGTGGGGAGGGGAACAGTCACTCAGGCTGG
 GGCAGGAAGCCCCGCCACCTCACCCACTCCACCCTACCCTGACAGGCTGGCCACACTTACTATTTCCG
 ACTCCCTTCGCACTACGTTGACCTGCGTGAGGATTTGTAGAACCCTCAGCCTCCTCCACCACAGCTGTC
 CAGCTGCTGCTGTCAGGACAGGAAACTGAGTTGGGCTGGGAGTGCAACCAGCCCTCTGCACCCCA
 GCTCTGGATGTCTGGATCCAACCAAAATGTGGACTGATGATATTTAGAAAAAGCAAAATGCTGCCAAGCTT
 GGCAGCACATGCTTGTATCACAGCACTGGGAGGTGGAGGCAGGGGGATCACTCGTTTACAGTGAAGTTC
 AGGCCAGCTCTGTAGAGCAAGAATCTGTCTCAAATTAATGACTGAATAAACAATGAACAAGTAAAAAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011984

Insert Size: 1071 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC005773](#), [AAH05773](#)

RefSeq Size: 2393 bp

RefSeq ORF: 1071 bp

Locus ID: 26558

UniProt ID: [Q99JP6](#)

Cytogenetics: 8 B3.3

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.