

## Product datasheet for **MG205426**

### Homer3 (BC005773) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Homer3 (BC005773) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Homer3
Synonyms:	AW146114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205426 representing BC005773 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCACAGCCAGGGAACAGCCAATCTTCAGCACCCGGGCGCACGTATTCCAGATCGACCCCACTACAA  
AGCGGAACTGGATCCCCGCCGCAAGCACGCACCTACCGTGTCTATTTCTATGATGCAACCCGAAATGT  
GTACCGCATCATCAGCATCGGGGTGCCAAGGCCATCATCAACAGCACTGCTACTCCCAACATGACCTTC  
ACCAAACTCTCAGAAGTTCGGCAATGGGCAGACAGTCGAGCCAACACTGTCTACGGCCTAGGCTTTG  
CCTCTGAACAGCAGCTGACCCAGTTTGCTGAGAAGTTTCAGGAGGTGAAAGAAGCTGCCAGGCTGGCTCG  
AGAGAAATCTCAAGATGGTGGAGAATTCAGTAGTACTGGCTGGCCCTTGCCATCAGGTTCCCTCCA  
AGCCCCCTTGCTCAGCACCAATGGTCCAGGCGAGGAAAAGCTGTTCCGTAGCCAGAGTGGCGACACCCCTG  
GCCCCACCGAGCGGGAACGGTTGAAGAAGATGCTGTGAGAAGGCTCTGTAGGGGAGGTCCAGTGGGAGGC  
AGAGTTCTTCGCGCTTCAGGACAGCAACCAGAGGTTGGCGGGAGCCCTTCGGGAGGCCAACCGAGCGGCC  
ACTCAGTGGAGGCAACAACCTGGAGGTCCAACGTGCAGAGGCTGAACTCTTGCAGCAGCGGTAGCAGAGC  
TGGAGGCCAGGTGGCTGTAGAGCCAGTCCGGGAGGAGAGAAAGAAGCAACCAGCCAGTCCGGTGGAGCA  
GCTGGAGGCTCGGTGCAGACCAAGGACCAGACTTTGAAGAATCAGAGCACTGGCACCCGGAATGCAGAGCTGGAGC  
GACACTGCCGAGCGGAAGAGACACAGCAGCAAGTTTCAGGACTGGAGACCCGGAATGCAGAGCTGGAGC  
AGCAGCTGCGGGCGATGGAGTGCAACCTGGAGGAGGCGCGGGCCGAGCGGGAGCGCGCACGGGCGGAGGT  
GGGCCGGCTGCCAGCTGCTGGATGTTTCGGCTGTTTGTAGCTCAGCGAGCTGCGTGAAGGCTGGCACGC  
CTGGCAGAGGCAGCACCC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205426 representing BC005773  
 Red=Cloning site Green=Tags(s)

MSTAREQPIFSTRAHVFQIDPTTKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAIINSTVTPNMTF  
 TKTSQKFGQWADSRANTVYGLGFASEQQLTQFAEKFQEVKEAARLAREKSQDGGFEFTSTGLALASHQVPP  
 SPLVSTNGPGEEKLFRSQSADTPGPTERERLKKMLSEGSVGEVQWEAEFFALQDSNQRLAGALREANAAA  
 TQWRQQLLEVQRAEALLRQRVAELEAQVAVEPVVRAKEATSQSVEQLEARVQTKDQTLKNQSTGTREAP  
 DTAREETQQQVQDLETRNAELEQQLRAMECNLEEARERARAEVGRAAQLLDVRLFELSELREGLAR  
 LAEAAP

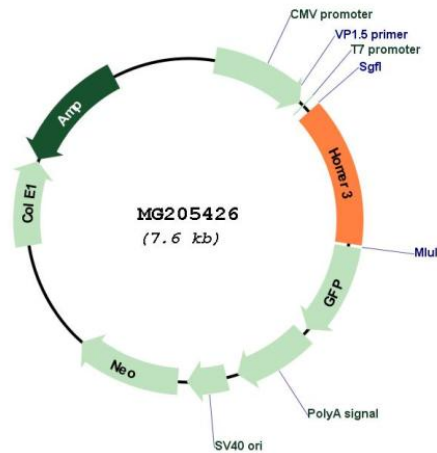
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC005773

<b>ORF Size:</b>	1070 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC005773</a> , <a href="#">AAH05773</a>
<b>RefSeq Size:</b>	2393 bp
<b>RefSeq ORF:</b>	1070 bp
<b>Locus ID:</b>	26558
<b>Cytogenetics:</b>	8 B3.3
<b>Gene Summary:</b>	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]