

Product datasheet for **MC222361**

Garem1 (NM_001033445) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Garem1 (NM_001033445) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Garem1
Synonyms:	C86169; Fam59a; Gareme; Gm944; mKIAA4238
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222361 representing NM_001033445
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGACCCGGCTCCCTCGTTGGGTTGCAGCCTCAAGGATGTGAAGTGAGCCAGTGCCCATGCCGCTCG
 ACCTGCTGGTCAGCACCTACCGCTGCCCCAGATCGCGCGCTGGACAGCGGAGAATGCGTGGAAGGGCT
 TCGGGAGAATGATTTCTGCTGATCCATTCATGCCGCGAGTGACGACCATCACTGCCCATAGCCTGGAA
 GAAGGTCACTATGTCATTGGGCCAAAGATAGAGATCCCTGTACATTATGCAGGACAATCAAGCTGCTGG
 AACAGACCGGGATATAAAGGAGCCGGTGAATATTTCAACAGCGTGAGGAAAGTGCCAAAGCATTTC
 TGAACGTGTGTACGTATGGAGGAGATTACATTCAACGTGAAGGTGGCGTCGGGTGAATGCAATGAAGAC
 ACTGAAGTTTACAACATCACCTGTGCACCGGGGATGAACACCCCTAATGGGCGAGGCAGAAATCCTTT
 ATGCAAAGACCTCAAGGAGAAGTCACGTCTCAACACCATCTTCAAAAAGATTGGGAAGCTCAATCCAT
 CAGCAAGCTGGGAAAGGCAAAATGCCCTGCCTCATTTGCATGAATCACCGGACCAATGAAAGCATCAGC
 CTTCCATTCCAGTGCAAGGGCAGATTTAGCACCCGAAAGTCCCCTGGAACCTCAGATGCAGGAAGGGGAAC
 ACACCATCCGAAACATCGTGGAGAAGACTCGACTCCCCGTGAATGTGACAGTGCCAGTCCCCACCCAG
 AAATCCCTATGACCTCCACTTCATTAGAGAGGGGACCGCTACAAGTTTGTGAACATCCAGACCAAGACA
 GTGGTGGTTTGTGTGTGCTGCGCAACAACAAGATCCTCCCCATGCACCTCCCTTTGCACTTGACTGTCC
 CCAAGTTCAGCCTCCCGGAACACCAGGTGAAGGGAGACATGTGGCCAGAAACACTAGTCCATCACTGGCT
 TGGTATCTGCCAAGAGCAGTTTGACATCGATGAGTATTCACGGGTGTGCGTGATGTGAAACGGACTGG
 AATGAAGACTGCAAGAGCCCCAAAAGGGCCGCTGCTCTGGCCACAACCATTTACCAATTCCCTCAGCT
 ATGCCCGCATGAGCTCACCCAGTCTTCCACCGACTCTCAGTCTGTGTATGGCAACAATCTCCATGG
 CAATAGTGAGGTGAATCTCCATGGCTGCAGGGACCTTGGGGGAGAGTGGGCCCTTTTCCCATGATATC
 CTTCCCTATCAAGACTCTGGTGACAGTGGGAGCGACTACCTTTTCCCGGAAGCTAATGAGGAGTCAGCGG
 GCATCCCGGGGAAAACAGAAGTTCCTATGAAGAGCTGTGGCTGGAGGAAGGCAAGCCCAGCCGCCAGCC
 TCTCACTCGTCACTCAGTGAGAAGAGCAGGTGCGACACCTTGAGAGGCTCCACGAGGTCCACGTGTGCA
 CCCTCTTCTCTCCACCCCTGCGACCTGGGAGCCACAATTAAGTCTTCAGAAATCGCCCTACCTCCAC
 CTCCAGTGCTCCCAAATCTGAAGCTGTCAGGGAAGAATGCCGGCTCTGAACGCCCCACCTGTGCCGCC
 CCGAAGTGCAAAGCCTTTGTCCACAAGTCCCTCCATCCCTCTCGAACAGTCAAGCCAGTCCGGCCACAG
 ACGAGATCTCCAAGCCCCACCCTGTCTTACTATTCTTCAGGACTGCATAACATCATCACTCAGAGTGATA
 CAAGTCTCTCCAACAGTGCCCTGTGTCTGCTACCCCTGCACCCGAGTGAAGAGTGAAGTCTGTGGACCC
 CAAGTCCCCATTTGGAAGTCTTCCGCTGAAGCTCTGTCTCCCGGCTCTCATGGCCCAACCATTACTCA
 GGAGCATCGGAGAACCAGACAAGGAGTGACTTTCTGCTCGATCCGAGCAGGAGCTACAGTACCCCGAGC
 AGAAGACACCTGGCACACCAAAGAGAACCTGCCAGCCCTTTTGATTTTGAGGGTTGCGAGCTCCTGGG
 CAGCCCACCCAGCAGACCTCTGCAGAGTTCAGTAGCAGCGGTGTCCCGAGTTGCCCAAGTCGGCCAGC
 TACTGTCTGGAGAACTCCGAGGACAACCTTTGACGTGGCATGACCAAGCAGAGCGTCTCCTGCCCTG
 CCTTACCCCCAAGGGCCCCAAAGCCAGTGGAACAGAAAGCCACCCTGAAACATCTCCTTTGCCTCTGAA
 AATTGATGGTGTGAGGAGGACCCACAGCAGGGTCACTGGACCTCTCGAGGACCAGTATTTGTGTCAGA
 AAGGGCATGCAGGACATCTTCTGTCTTACCCTTTCTCATCTCCGCTCCACCTCCAGCTGGCCCCCA
 GATCCTGTGGGATGGTTCCCGTGGCAGCCACCCGCTGACCTATCAGGACTCTCTATAGAGGAAGTGTC
 CAAGTCTTTGCGGTTCAATTGGTTTGTCTGAAGACGTATAGCCTTCTTTGTCACTGAAAAGATCGATGGG
 AATTTGCTTGTCAATTAACAGAAGAGATCCTCTCAGAGGATTTCAAACCTAAGCAAACCTACAGGTAAGA
 AAATACTGCAGTTTATTAATGGCTGGAGGCCCAAGATAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033445
Insert Size: 2631 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001033445.2, NP_001028617.2</u>
RefSeq Size:	4783 bp
RefSeq ORF:	2631 bp
Locus ID:	381126
UniProt ID:	<u>Q3UFT3</u>
Cytogenetics:	18 A2
Gene Summary:	Acts as an adapter protein that plays a role in intracellular signaling cascades triggered either by the cell surface activated epidermal growth factor receptor and/or cytoplasmic protein tyrosine kinases. Promotes activation of the MAPK/ERK signaling pathway. Plays a role in the regulation of cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]