

Product datasheet for **MR214927**

Garem2 (NM_001167879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Garem2 (NM_001167879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Garem2
Synonyms:	Fam59b; Gareml; Gm444
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR214927 representing NM_001167879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAGCTGGCGGCCGGGCTGGCCGGGCTGCCTGGAGCATGGGCGCTTCCCGCTGGACCTCATCG
 TCAGCCGCTGCCGCTGCCACGCTCGCTGCCTCGGACCAGGAGATGCTGAGGGAGTCAGTGAACG
 AGACATCTGCTGATCCACTCCTGCCGCCAGTGGACTACAGTACTGCCACACCCTGGAGGAGGCCAC
 TATGTCATTGGGCCAAGATTGACATCCCCCTGCAGTACCCAGGCAAATCAAGCTCTGGAGCAGGCTC
 GGGACGTGCGGGAGCCTGTAAGATACTTCAGCAGCGTGGAGGAGTGGCCAGTGTCTTCCCTGACCGAAT
 CTTCTGTATGGAAGCCATCACCTTCAGTGTCAAGGTGGTGTGAGGCGAGTTCAGCGAGGACAGCGAGGTG
 TACAACTTCACACTGCACGCAGGCGACGAGCTCACTCTCATGGCCAGGCGGAGATTCTGTGCGCAAGA
 CGACCAAGGAGCGCTCGCGCTTACCACGCTCCTGCGCAAGCTGGCCGTGCAGGGGCTTGGCCGGAAT
 CGGCGGCCCGGGAGCATGGGAGCAACAGGGGGTGGCGGGGGGCCAGGCCCGTCAAAGCAAGATG
 CCCTGTCTCATCTGCATGAACCACCGCACCAACGAGAGCCTGAGCCTGCCCTTCCAGTGCCAGGGCCGAT
 TCAGCACGCGCAGCCACTGGAGCTGCAGATGCAGGAGGGCGAGCACACGGTGCAGCGCCATCATCGAGCG
 CGTGCGGCTGCCGGTGAACGTGCTGGTGCCAGCCGGCCCGCCGCAACCCCTACGACCTCCACCCGGTG
 CCGGAGGGGACACTGCTACAAGCTGGTCAAGTATCTCCAAGACGGTGGTGTGGGGTGGCGCTGCGCC
 GCGAGGGCCCGCGCGCTGCACTTCTGCTGCTTACGGACACGCCGCGCTTCACTTGCAGCGGCTCT
 GCTGGCCGGGACCCGCGCTCGAGCGCTGGTGCAGCAGCGCCTCCTACTGCCGCGAGCGCTTCGAT
 CCGGACGAATACTCCACTGCTGTGCGCAGGCGCCCGGGAGCTCTCCGACGACTGCGCCAGCCCGCGCC
 ATGCGCGCCTCTGCCTGCCCGCGCGCGCCCGCGGGCGTCCGTGCGCTGGACCGCGGGTGCCT
 GGGTCCCCTTTGCCCGCGCCCGGCGACAGCATCAGGATTACGTGAGCCCCGATTGGGCGGGTGTGTCC
 GAGCCAGCGGGCGGCTGCAGCGAGATCCCTTACGAAGAGCTGTGGTGCACCAAGCCCCGAGAGCCGCG
 CCGACGCCGTGCAGCGCCGCTAGCGGGCCGGACCTCATCTCCTTCCGGATCGTGGGGCCCCACGGCA
 TGAGCCAGAGGACCAACACCTCCTGTCCCTCCCAAATCCGAGGCGGTGAAGGAAGAGTCCGCGCTGCTT
 CACGCCCTCCAGTGCCTCCTAGGGGTGGCGGAGCTGCAGCAAGCTCACAGGACGCCCTCCGGTGTGCTC
 CCCACTTTCCAAAGCTGCAGCCTGTCCACTCGCCAGCTCCAGTCTCTCCTATTATCTCTGCGCTGCA
 GGATGGGGCAGGATCCCGCAGTGGCAGTGGCTCCCGTCAACGGATGCATACTCTCTATTGCTACCTT
 TGCACCTGGGGAGACTGTAAGCCAGCGAGTCTCTAGTGCAGCCACCTGGACCCCTGCCTTCTACCA
 CCACCCAGCCAGCCAGGCTCAAGAGGCTATCAGAGCCCTGAGTGGTGAACCCCTCCCTCTTGGG
 GGCTGACACCCAGTAGTTAAGAACTACCATAGCTGCCACCTCTGTTCAAGTCTCTCGTCCCCAGAAG
 TCCTTTGCTCCCTTTGGTGCACCTCAACCCCTTCTCTGGGCTGCCACCCCTTCCAGGTGCTCCAGCGGCT
 CCTCCTCTGGGTCCATATCCACCTCGGGTGTCTGGTACCTCTAGCCCCACACTCCCGAGGCCAGG
 CCCAGGCCACAAGGCCAAGGTTACTCAGTGTCTTCTCCTCCTTGTATCTCTGAGTGGCAGGAG
 CCAGCTCTGGAGCCCCTGGACCCATTTGAGCTGGGGCAGGCCAGTCCCTCTGAGCTGGAGCTAGTGGCT
 GTCAGGAGCCCAGAGCTGCGGGGACCTGGGTGAGGACCTTGCCTTTACCCTTGGTCCAGCCAAAGC
 CTTTGGAGCCGAAGTTTGGTGTGAGGACGTCCTGCCTCACTGCTCACCAGCTGCCTTGCAGGGGCT
 GAGGCAGGAGGAACCTACTTTCTCACCAAGGATGCCTGGAAGGGCTCCTGGCAGCCCCGGGAGG
 GAGCCACAGTGTGGGGTCCGGATGCCTCCTGAGCAGCCAGCAGACTTGTCTGCACTCTCCCT
 GGAAGAGTCTCCGTAGTCTGCGCTTCAATGGGCTCTCAGAGGAGTGGTGGAGTCTTTGCCGAGAA
 CGCATCGAGGAAAGCATCTTTGTGAGCTCAGTGAAGACATCTTGGTGCAGACTCCATCTACCAAGC
 TTCAGTCAAGAAATCATGCAATTCATCAAAGGTTGGAGACCAAGATC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR214927 representing NM_001167879
 Red=Cloning site Green=Tags(s)

MEKLAAGLAGLRWSMGAFPLDLIVSRCLPTLA CLGPGEYAEVSE RDILLIHS CRQWTTVTAHTLEEGH
 YVIGPKIDIP LQYPGKFKLLEQARDVREP VRYFSSVEE VASVFPDRIFVMEAITFSVKVVSGEFSESEV
 YNFTLHAGDEL TLMGQAEILCAKTTKERSRFTLLRKLGRAGALAGIGGPGSMGATGGGGGAARPVKSKM
 PCLICMNHRTNESLSLFPQCQGRFSTRSPLELQMQEGEHTVRAIIERVRLPVNVLPVSRPPRNPYDLHPV
 REGHCYKLVSIISKTVVGLALRREGPAPLHFLLLTDTPRFTLPQGLLAGDPRVERLVRDSASYCRERFD
 PDEYSTAVREAPAE LSDDCASPRHARLCLPAPRAPGAVRAPGPPGRLGPALPAPGSDQDYVSPDWAGVS
 EPAGGCAEIPYEELWVHQAPESRADARARPLAGPDLISFGIVGPPRHEPEAPPPVPPKSEAVKEECRLL
 HAPPVPPRGGGCSKLTGSPVLPHPFKLQPVHSPSSLSYSSGLQDGAGSRSGSGSPDAYSLYCYP
 CTWGDCKASESSRPPPGPLPSTTTQPSQASRGLSEPLSGRTPSLLGADTPVVKNYHSCPPLFKSSRPQK
 SFAPFGALNPFSGPAHPSGAPAASSSGSISTSGVLATSSPTHSPGPGPGQGQGYSAAPSSLSSEWQE
 PALEPLDPFELGQASPELELVRCQEPRAAGAPGSGPCLSP LGQPKA FEPEGLVLRQVPASLSPAALQGP
 EAGGTLFLFTQGCLEGGPGSPREGATGAGVRDASSWQPPADLSALSLEEVSRSLRF IGLSE DVVSFFARE
 RIDGSIFVQLSEDLADDFHLTKLQVKKIMQFIK GWRPKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9104_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

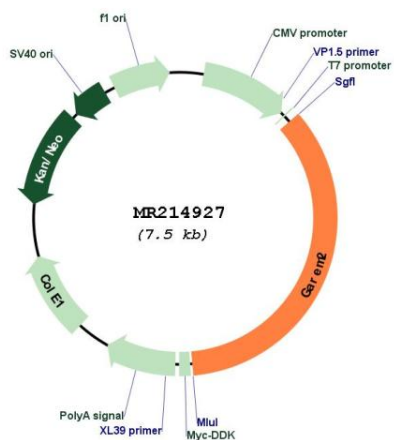
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001167879
ORF Size:	2640 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:	<ol style="list-style-type: none">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_001167879.1 , NP_001161351.1
RefSeq Size:	3832 bp
RefSeq ORF:	2643 bp
Locus ID:	242915
UniProt ID:	Q6PAJ3
Cytogenetics:	5 B1
MW:	93.5 kDa
Gene Summary:	Probable adapter protein that provides a critical link between cell surface epidermal growth factor receptor and the MAPK/ERK signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214927