

Product datasheet for **RR217293**

Garem2 (NM_001191874) Rat Tagged ORF Clone

Product data:

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|--------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Garem2 (NM_001191874) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Garem2 |
| Synonyms: | Fam59b; Gareml |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide
Sequence:

>RR217293 representing NM_001191874
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAAGCTGGCGGCCGGCTTGCCGGGCTGCGCTGGAGCATGGGCGCTTCCCGCTGGACCTCATCG
TCAGCCGCTGTCGCTGCCACGCTCGCCTGCCTCGGGCCAGGGAGTATGCTGAGGGTGTCACTGAACG
AGATATCCTGCTGATCCACTCCTGCCGCCAGTGGACCACAGTGACCGCCATACCCTGGAGGAGGCCAC
TACGTCATTGGACCAAGATTGACATCCCCCTGCAGTACCCAGGCAAATCAAGCTCCTGGAGCAGGCTC
GGGATGTGCGGGAGCCGGTGAGATACTTCAGCAGTGTGGAGGAGTGGCCAGTGTCTTCCCTGACCGAAT
CTTTGTGATGGAAGCCATCACCTTCAGTGTCAAGGTGGTGTGAGGCGAGTTCAGCGAGGACAGCGAGGTG
TACAACTTCACACTGCACGCAGGCGACGAGCTCACTCTCATGGGTGAGCCGAGATTCTGTGCGCAAGA
CAACCAAAGAGCGCTCGCGCTTACCACGCTCCTGCGCAAGTTGGGCCGTGAGGGGCCCTGGCTGGAAT
CGCGCGTCCCGGAGTATGGGGCCACAGGAGGTGGCGGGGGCCCGCCAGGCCCGTCAAGGCAAGATG
CCCTGTCTCATCTGCATGAACCACCGCACCAACGAGAGCCTGAGCCTGCCCTTCCATGCCAGGGCCGCT
TTAGCACGCGCAGCCCTCTGGAGCTACAAATGCAGGAGGGCGAGCACACGGTGCAGCGCCATCATCGAGCG
CGTGAGGCTTCCGGTGAACGTGCTGGTACCCAGCCGGCCCGCCGCAACCCCTTACGACCTACACCCTGTG
CGGGAGGGCCACTGCTATAAGCTGGTCAAGTATCTCCAAGACCGTGGTGTGGGGTGGCGCTGCGCC
GTGAGGGTCCGGCGCCACTGCACTTCTGCTGCTACCCGACACGCCGCGCTTCACTTGCAGGAGGCTCT
GCTGGCCGGGACCCGCGCTCGAGCGCTGGTGCAGCAGCGCCTCCTACTGTGCGGAGCGCTTCGAT
CCGGACGAGTACTCCACTGCTGTGCGCAGGCGCCCGCGGAGCTCGCGGACGATTGCGCAGTCCGCGCC
GTGCGCGCCTCTGCCTGCCCGCGCGCTGTTCCCGGGTCTGTCCGTGTGCTGGACCGCGGGTGCAGCC
GGTCTGCCCTGCCAGCACCGAGCGACAGCGACCAAGGAGTACGTGAGCCCTGATTGGGGCGGTGCGCCC
GAGCCCGCGCGCGTGCAGCGAGATCCCTACGAGGAGCTGTGGTGCACCAAGGCCCGAAAGCCTCG
CCGACGCCGTGCAGCGCGCTGACAGGGCCGGATCTCATCTCTTTGGGACCGTGGGGCCCCACAGCA
TGAACCAGAGGACACCGCCTCCTGTCCCCCAAACTGAGGCGGTGAAGGAAGAGTGGCGCTGCTT
CACGCCCCGCTGTGCTCCTAGGGTGGCAGCAGCTGCAGTAGGCTCACAGGACGCCCTCCAGTCCCGC
CCCGCTTCCCAAGCTGCAGTCTGTCCACTACCGAGCTCCAGTCTCTCGTACTATTCTCTGCGCTGCA
GGATGGGGCAGGATCCCGCAGTGGCAGTGGTCCCGTCAACGGATGCATACTCTCTATTGCTACCTT
TGCACCTGGGAGATTGTAAGCCAGCAGTCCCTAGTGCAGCCGACAGGACCCCTACCTTCTACCA
CCACCCAGCCGCCAGTCAAGCCTCAAGAGCCCTAGCAGAGCCTTTGAGTGGTGAACCGCCTCCCTCTT
GGGAGCTGACACCCAGCGGTTAAGAACTACCATAGCTGCCCCGCTCTGTTAAACCCCTACGTCGCCAG
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CCTCCTCTCTGGGTCCACATCCACTTCGGGTGCCCTGGCTACCTCCAGCCCCACACTCCCAGGCC
AGGCCACAGGGCCAAGTTACTCAGTGTCTCCCTCCTCCTCTGTCTCTCTGAGTGGCAGGAGCCA
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AGGAGCCAGAGCTTCGGGGACACTGGGTCTGGACATTGCCTTTCCCACTTGGTCCGCCAAGGCCTT
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GCAGGAGGAACCTCCTCTTTCTTACCAAGGGTGCCTGGAAGGCCCTCCTGGCAGCCACGGGAGGGCG
TCCAGGTGCCGAGTCCGGGATGCTTCTCCTGCGAGCCACCAGCAGACTTATCTGCCCTCTCCGTGGA
AGAGGTCTCACGGAGCTGCGCTTATCGGGCTCTCAGAGGACGTGGTGGAGTCTTTGCCCCGAGAACGC
ATTGACGGAAGCATCTTTGTGAGCTCAGTGGAGACATCTGGCTGATGACTTTCATCTTACCAAGCTTC
AGGTCAAGAAGATCATGCAGTTCATCAAAGTTGGAGACCAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217293 representing NM_001191874
 Red=Cloning site Green=Tags(s)

MEKLAAGLAGLRWSMGAFPLDLIVSRCLPTLACLGPGEYAEGVSEKDILLIHSCRQWTTVTAHTLEEGH
 YVIGPKIDIPLOYPGKFKLLEQARDVREPVRVYFSSVEEVASVFPDRIFVMEAITFSVKVVSGEFSEDSEV
 YNFTLHAGDEL TLMGQAEILCAKTTKERSRFTLLRKLGRAGALAGIGPGSMGATGGGGGAARPVRGKM
 PCLICMNHRTNESLSLPPFQCQGRFSTRSPLELQMGEHEHTVRAIIERVRLPVNVLPVSRPPRNPYDLHPV
 REGHCYKLVSIISKTVVLGLALRREGPAPLHFLLLTDTPRFTLPQGLLAGDPRVERLVRDSASYCRERFD
 PDEYSTAVREAPAELEDDCASPRRARLCLPAPRVPGSVRVPVPGPPGRLGPALPAPSDSDQEYVSPDWAGAP
 EPAAACAEIPYEELWVHQGPESLADARARPLTGPDLISFGTVGPPQHEPEAPPPVPPKSEAVKEECRLL
 HAPPVPPRGSSCSRLTGSPVPPRFPKLQSVHSPSSSLSYSSGLQDGAGSRSGSGSPDAYSLYCYP
 CTWGDCKASESSRPPGPLPSTTTQPPSQASRALAEPLSGRTASLLGADTPAVKNYHSCPPLFKPSRPQ
 KSLAPFGALNPFSGPAHPSGAPAASSSGSTSTSGALATSSPTHSPGPGQGQGYSAAPSSSLSSSEWQEP
 ALEPLDPFELGQASPELELLRCQEPASGTPGSGHCLSPGPKALEPEGLVLRQVPASLSPAALQGP
 AGGTLFLTQGCLEGGPSPREGVPGAGVRDASSWQPPADLSALSVEEVSRSLRFIGLSEDVVSFFARER
 IDGSIFVQLSEDILADDFHLTKLQVKKIMQFIKGWRPKI

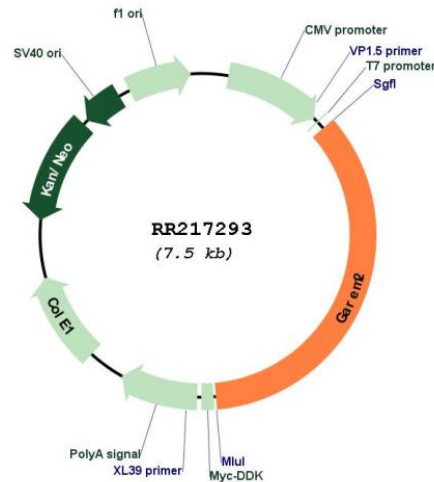
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001191874

ORF Size: 2637 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:

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_001191874.1](#), [NP_001178803.1](#)

RefSeq Size: 2662 bp

RefSeq ORF: 2640 bp

Locus ID: 362801

Cytogenetics: 6q14

MW: 93.5 kDa