

## Product datasheet for **RR203137**

### Gemin4 (NM\_001109037) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gemin4 (NM\_001109037) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gemin4  
**Synonyms:** RGD1563715  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203137 representing NM\_001109037  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACCTAGGACCCCTTGAATATCTGTGAGGAAATGACTATTCTGCATGGGGCTTCTTGATGGCTGAAC  
AGCTATCCACCCCAAAGCCCTGGAACAGTTGACAAAGTCTGATTGGGAACACGTGGGACAGCCCATTGT  
AGAGGCCCTTGAAGGAGATCTCCTCAGCCACAGCACATTCCAGCCATTTGCTGGAAGAAGAAAGCATT  
ATCATCATCTGGGCAAGTTCTTCAGCCCTCCCTGTCAGCCCTTCTGCACTGATACTCGGTGGCAGG  
AAGATGTATTCTTTCCGTGGGCAACATGATCCCTACCATCAACCACACAGTCCTTTTTGAGCTGCTTAA  
GTCCCTGGAAGCTTCTGGACTCTTCATTAGCTCCTAATGGCCCTGCCTACCACCATCGGCCGCTCAGAA  
CTACAGAGCTTTCTGGAGCAGTACTATTGACTTCTTCCAAGGATGTGGCTTTCTTCTAGATGTCT  
GGTGGGAAATGATGAAGCACAAGGTGATGAACAGGACCCTTGCTTTCCAGTTCAGGACGATGGCCCA  
TAAATACTTGCCATCCTCAGATGAGTTTTCCATCCTCCGAAGAGGTTAAGTCTGACCCAGATGTAGGT  
CCCACCATGCCACTTTTGCTATGCTGCTAACGGGCTGAAGCAGATCCAAAAGAGAATCCTGTCCCTTG  
GAATGAAGTGTGTGCATTAGCTAACTTGGCTGACATGCTGAGCGTGTTTGCAATGATGGAGGATGAC  
CCAGGAGGTGTCTGCCACTGTGTACCTAGACAACTAGCGACGGTGATCTCTGTGTGAATTCAGACACC  
CAGAACCATAACCATCAACAGGCCCTGGCAGACAAGGTAAGGAGGCAGAGCGGGACGTGAGTCTCACCT  
CACTGGCTAAACTCCCCAGTGAGACTGTTTTCATGGGTTTGGCTTATGTACAACCTGCTGCAGGAGTG  
GGGTACAGAACTACAGGACATGCTCAACAGCAGTCAGGGGACAAATTATGACACCTACCGCTGTGTGAC  
AGTCTGACTTCTTCAGCCAGAATTTGGAGCTCTACCTGGATACTGCCAGCCTGCCCAAGGAGGAGAGGG  
AGGTGGTCTTAGAACTGGCTAAGTGTGTCAGGACTTCTGAGGAAAACCAGCAGAATGCTGAACGACAA  
GGCCCTTGAGGACATCACTGCCTCCATTGCTATGGCCATCATTGAACAGAAGATGGACCGGTACATGGAG  
ATGTGCTACATTTTGCCTCTGAGAAGAAGTGGGCCTTTTCAGACGAGTGGGTTGCTGCCTGGTTAACA  
ACAGGTGTCTCTCAGAGAACCAGACTTGGTCTTGAGTCTGCTGGAAACAGTGATGGAAGTCATAAACTC  
TAATAGGGTTATCCCCAGACTCACATCAAGCAGGTAATCTGCTTGACTCTGGAATGCTATGAAGACCTC  
TCTCTACCAGATAAAAATAAAGTCTTTCTGGTGTCTGCATTATTTGGGGCCAAAGGCCCTCTCAGACA



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GGTTGTCTAATTACTTGGAGGGTTTTTCAGGAAGATCTCAATACAACGTTTAAACCAACTCGCACAGAGCAC  
 CTCTGAACAGGGCCTGGCTAAAGCTGTGGCCTCTGTGGCCACCTGGTGATCCTGAACCCAGAAGTTGTG  
 GTGAAGAAGATGTGTAGCCTCGCTGTGACCAACCTTGGCACACATAGGTTTTTGGCTCAGATTCTCACTG  
 CCTTCCCTGCCCTGAAGTTCACAGAAGAACAAGGGCCAAATCCATATACCAAGTTTCATGGTGTCTGCCT  
 CAAAGAACTGTGTGGACCAAGTCTCTACACCCAAAGAAGAGAAGCAGTTTCTGGAGCTGGTGAGCTGC  
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 CCTTGAAGCCAATGCAGGCTTGAAGAGTATTGGCTGCAAACCTGCTCCCAATCCCACTGCTCTTCAGC  
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 ACAGCAAGGATCTGTGACCCACATTCTGGAACCTCTGTGTGAGATCGTTCTAGCCAACATAGAAACCTT  
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 GGCCTCCGACTGAAGGACTTCTTTGAAGGCCACTTCAAGTGTGAGGTGCCAGCTACCCTTTTTGGAGTCT  
 GTAAGCTCTCTGAGGCCAGTGGACGTACAGGCTCACGAAGGATATGGGCTGGTACAGGACTTCTCGC  
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 GTAGCCCCAGGAGTGGCAATACCTTCAGCAGCTGACCAGGAAGCTGTTGAGAAACAGCTTCTTCATGT  
 CCCTTACAGTCTAGAGTATGTTCAATTTGTTCCCTGCTCAACCTGAGGCCTTTTGGCCAGGAGCTTCAG  
 CTCTCTGTTCTTTCTTGAGAGCTTTCCAGTTTCTCTGCAGCCAGAGCTGTTGTAAGTGGCTTCTTTGG  
 ATGGTTGGAGCCATGTGGTCAAACCTCTCTGTAGCAGTCTGACCAGTGTCTGGATGCAGTCAGGTTGAT  
 TCAGTCAGTGGTCCCTGGGCCAGGGACAAGAAGGGGATCTTACTCAGGAAACCTTGTTTGTCTATACC  
 CAAATGTTCTGTACGTTCTGCATATCATGGCCATGCTCCCTCAGGAGGTCTGTGAACCCCTCTACGTAC  
 TGGCCTTGAAATCCTTACCTGCTATGAGACCCTAAGCAAACCAACCTTCTGTGAGTCTCTTGTCTCA  
 GAAGGTAGATGAGCAGCGCTTCTTAAAGTCTATTGCCAAGAACATTAGCCCTGAGGAGCGGCCCAAACC  
 CTGCTACAAAAGATCAACAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203137 representing NM\_001109037  
 Red=Cloning site Green=Tags(s)

MDLGPLNICEEMTILHGGFLMAEQLFHPKALEQLTKSDWEHVGPIVEALKEISSATAHSQPFWKKKAL  
 IIIWAKVLQPSVSPSDTDTRWQEDVFFSVGNMIPTINHTVLFELLKSLEASGLFIQLLMALPTTIGRSE  
 LQSFLEHMTIDTSSKDVAFFLDVWVEMMKHKGDEQDPLLQFRTMAHKYLPSSDEFSHPPKRFKSDPDVG  
 PTMPLLAMLLNGLKQIQKRILSLGMKCCALANLADMLSVFALMEDDTQEVSATVYLDKLATVISVWNSDT  
 QNPYHQALADKVKEAERDVSLTSLAKLPSETVFMGFELMYNLLQEWGTELDMLNSSQGTNYDTRLCD  
 SLTSFSQNLLELYLDTASLPKEEREVVLELAKCVRDFLRKTSRMLNDKGLDITASIAMAIEQKMDRYME  
 MCYIFASEKKWAFSDEWVACLNNRCLFREPDVLVSLLETVMVINSNRVIPQTHIKQVICLTLECYEDL  
 SLPDKNKVLSGVLHYLGPKGLSDRLSNYLEGFQEDLNTTFNQLAQSTSEQLAKAVASVAHLVILNPEVV  
 YKKMCSLAVTNLGTFRFLAQILTAFPAKLFTEEQGNPYTSFMVSVCLKETVWTKFSTPKEEKQFLELVSC  
 LMNPVKPQGIPIAALLEPDEVLEFVLPFLMLDMEEVGLSLKLFIQTLEANAGLEEWLQTCSPFPLLFS  
 LCQLLDSFSKFWQLPREKRYLTLDKDLVTHILELLCEIVLANIETFSPTWAKSLSWLHRKLDQLDWTV  
 GLRLKDFEFEGHFKEVPATLFEICKLSEAQWTSQAHEGYGPGTGLLAWMECCSISNSVTEQMLSLVVNV  
 GNPEEVRLFSKGFVALVQVMPWCSPQEWQYLQQLTRKLLKQLLHVPYSLEYVQFVPLNLRPFAQELQ  
 LSVLSLRAFQFLCSQCCNWLPLDGWVSHVVKLLCSSLTSVLDVRLIQSVGPWAQGEGLDQETLQVYV  
 QMFCHVLHIMAMLPQEVCEPLYVLALEILTCTYETLSKTNPSVSSLLQKVDEQRFLKSIAKNISPEERRQT  
 LLQKINNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<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>	<u>NM_001109037.1, NP_001102507.1</u>
<b>RefSeq Size:</b>	3387 bp
<b>RefSeq ORF:</b>	3177 bp
<b>Locus ID:</b>	497958
<b>Cytogenetics:</b>	10q24
<b>MW:</b>	120.4 kDa