

## Product datasheet for **RR217449**

### Nemf (NM\_001170586) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nemf (NM\_001170586) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nemf  
**Synonyms:** Sdccag1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR217449 representing NM\_001170586  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGACCCGCTTCAGCACTGTTGACCTCCGCGGGTCTCGCGGAACGAATGCGAAGTCTGCTAGGAA  
TGAGAGTAAACAACGTTTATGATGTGGATAACAAGACGTATCTTATTCGGCTTCAAATCCTGATTTTAA  
AGCTACACTGTTACTTGAATCTGGTATACGAATTCACACAACAGAATTTGAGTGGCCTAAGAACATGATG  
CCGTCTAGTTTTGCTATGAAGTGTGAAAGCATTGAAAAGTCGGAGATTAGTCAGTGCAAAACAGCTTG  
GTGTGGATAGAATTGTGGATTTCCAATTTGGAAGTGATGAAGCTGCTTATCACTTAATCATTGAGCTCTA  
TGACAGGGGCAACATTGTCCTTACAGATTATGAGTACCTAATTTTAAATATCCTAAGGTTTGAAGTCTG  
GAAGCTGATGATGTTAAGTTTGTCTGTTGCGTGAACGTTATCCCATAGATCATGCCAGAGCTGCTGAACCT  
TGCTCACTTTGAAAAGATTGACTGAAGTAAAGCTAGAGCTCCTAGAGGTGAAGTCTGCTGAAGAGATTCT  
GAATCCGTTACTTCCCTATGGCCAGCTCTTATTGAGCATTGTCTTATAGAAAATGGATTCTCTGGCAAT  
GTCAAAGTGGACGAAAACTTGAAGCAAAGATATTGAGAAGATACTGGTTTGTGTGCAGAGGGCAGAAG  
ACTATTTGGAAAAACAGCCAACCTCAATGGAAGGGATATAAATTCAGAAAAGAGAGGTAAAACCAAG  
CCTGGATGCCAATAAACAGCTGAAGACATACTCACGTATGAGGAATTTATCCTTTCTGTGTTTTCTCAA  
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AAGTTCAGAAAATTGACTTAAAAGCATTGCAACAGGAAAAACAAGCACTGAAGAAATTAGATAATGTCCG  
AAAGGATCATGAAAACAGATTGGAAGCTTTCAGCAGGCTCAGGAAATTGACAACTGAAAGGGGAGCTC  
ATAGAGATGAACCTGCAGATAGTTGACAGAGCCATTGAGGTAGTTCGAAGTGCATTAGCCAACCAGATAG  
ATTGGACAGAAAATTGGAGTATTGTGAAAGAAGCACAAGCCAGGGAGACCCTGTTGCAAGTGAATCAA  
AGAAGTAAAAGTCAAACAAACCACATTACCATGCTTCTACGAAATCCATACTTGTATCAGAGGAGGAA  
GATGGTATGGTATGGCAGCATTGAGAACAGTATGCTGAAGCACCAAAAGGGAAAAAAGCAAA  
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CTATGCCAATGCCAAAAAGTATTATGATCATAAGAGGTATGCTGCTAAAAAACACAGAGAACTGTGGA  
GCTGCTGAGAAGGCATTCAAATCAGCAGAGAAGAAAAACAAGCAACCTTAAAAGAAGTACAACAGTTA



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CTTCTATCCAAAAAGCAAGGAAAGTGTATTGGTTTGAGAAATTTCTGTGGTTTATTAGTTCAGAGAACTA  
TCTCATTATAGGTGGTCGAGATCAGCAACAGAATGAGATTATTGTGAAAAGATACTTAACACCAGGAGAC  
ATTTATGTGCATGCTGATCTTACATGGAGCTACCAGCTGTGTAATTAAGAAATCCAACAGGAGATCCCATCC  
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CACGAGTGCTTGGTGGGTGCACCATCATCAGGTCTCTAAAACAGCACCGACAGGAGAGTACTTAACAAC  
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TGATCTGGATCAGCAGGGAAATGAGGAAAATCTATTTGACTCTTTGACAGGGCAACCACATCCTGAAGAT  
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TTACTCTGGAGTTCAGAAAAAGGAAAAGCTGCAAAGACAGCCTTGAACAGTTTCATGCACTCAAAGA  
AGCAACAGCAAGAGAAAAAGACTTATTCGAAGTGTGAAGGACACAGATTTATCAAGAAACATTCCTGGG  
AAAGTGAAGTGTCTGCCCAATCTTTCGCACGTA AAAAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR217449 representing NM\_001170586

Red=Cloning site Green=Tags(s)

MKTRFSTVDLRAVLAELNANLLGMRVNNVYDNDNKTYLIRLQNPDKATLLLESGIRIHTTEFEWPKNMM  
PSSFAMKCRKHLKSRRLVSAKQLGVDRIYDFQFGSDEAYHLIIELYDRGNIVLTDYEYLILNILRFRTD  
EADDVKFAVRERYPIDHARAAEPLLTLERLTEVIARAPRGELLKRVLNPLLPYGPALIEHCLIEGFSGN  
VKVDEKLESKDIEKILVCVQRAEDYLEKTANFNGKGYIIQKREVKPSLDANKPAEDILTYEEFHPFLFSQ  
HLQCPYIEFESFDKAVDEFYSKIEGQKIDLKALQQEKQALKKLDNVRKDHENRLEALQQAQEI DKLK GEL  
IEMNLQIVDRAIQVRSALANQIDWTEIGVIVKEAQAQGDVPVASAIKELKLQTNHITMLLRNPYLLSEEE  
DGDGDSIENSDAEAPKGGKKKQKNKQLQKPQKNKPLLVDVDLSAYANAKKYDCHKRYAAKKTQRTVE  
AAEKAFKSAEKKTKQLKEVQTVTSIQKARKVYWFEEKLWFISSENYLIIIGGRDQQNEIIVKRYLTPGD  
IYVHADLHGATSCVIKNPTGDP IPPRTL TEAGTMALCYSAAWDARVITSAWVHHHQVSKTAPTGEYLT  
GSFMIRGKKNFLPPSYLMMGFSFLFKVDESCVWRHRGERKVRVQDEDMETLTSCTSELMSEEMEQLEGGD  
SSEEEETEELRGTTEEVELRTQADPEDIAAHSGREELSSSEDGEAIKATKDEEPIGEVREEEEPFEYPTD  
TIDL SHLQSQRP LQKLTPREESFNSSDSKQSRRHL SAKERREM KKKLPCDSGDLEVIEEKDKEKESAV  
HSEADQNTSKNVAAGQPMKRGQKSKMKMKEKYKDQDDEDRELIMKLLASAGSNKEEKGGKGGKTKDE  
PVKKNPQKPRGGQRVLDVVKETPSLQASTPDLQDFAVDEPHDDKEEHLDDQQNEENLFDLSLTGQPHPED  
VLMFAIPICAPYTIMTNYKYKVKLTPGVQKKGAAKTALNSFMHSKEATAREKDLFRSVKDTDL SRNIPG  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

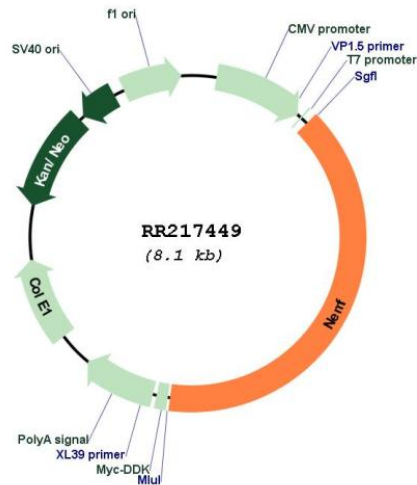
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001170586

ORF Size: 3195 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.

<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_001170586.1, NP_001164057.1</u>
<b>RefSeq Size:</b>	4797 bp
<b>RefSeq ORF:</b>	3198 bp
<b>Locus ID:</b>	100322884
<b>Cytogenetics:</b>	6q24
<b>MW:</b>	121.5 kDa