

## Product datasheet for **RR217569**

### Diaph1 (NM\_001107393) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Diaph1 (NM\_001107393) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Diaph1  
**Synonyms:** Diap1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR217569 representing NM\_001107393  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCCGTCGGCGGGGGCCTAGGGCCCGCCGCGGGACCCGGGACAAGAAGAAGGGTCGGAGCCCGG  
ATGAGCTGCCTGCGACGGGCGGCGACGGCGGCAAAATAAGAAATTTACTTTGAAGCGGCTCATGGCAGA  
CGAGCTGGAGAGATTTACCAGCATGAGGATTAAGAAGGAGAAGGAAAAGCCCAATTCTGCTCATAGAAAC  
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TCCTCTTTGAGCAGATGCTGGTGGATATGAACCTGAATGAGGAGAAACAGCAGCCTTTGCCGAGAGAAGGA  
CATTGTCAAGAGGGAGATGGTGTCCAGTATCTGCATACTTCCAAAGCTGGCATGAACCAGAAGGAG  
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GCCTGGAGTCCCTTCGAGTCTCTCAACAATAACCCTGTGAGTGGGTGCAGACATTTGGTGTGAGGG  
CCTAGCCTCCTTATTGGACATCCTCAAACGACTCCATGATGAGAAAGAGGAGACTTCTGAAACTACGAC  
AGCCGGAACCAGCATGAGATTATCCGCTGTTTGAAGCTTTCATGAACAACAAGTTTGAATCAAACCA  
TGTTGGAGACGGAAGAAGGAATCCTACTGCTGGTCAGAGCCATGGATCCTGCTGTTCCCAATATGATGAT  
TGATGCAGCAAAGCTGCTGTCTGCCCTCTGTATCCTACCGCAGCCAGAGGACATGAATGAACGAGTTTTA  
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ACTTGACTTCCGGGTTACATCCGAAGTGAAGTGTGCGCTTGGGACTGCATCAAGTGTTCAGGAGCTT  
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TTAAACACAGTGAAGATTCCAAGGCAGAACCACACTTCTGTCTATCTTGCAGCATCTCTGTTGGTC  
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GAATTAACAGCCCGCATGAGTTACAAGTAGAAATGAAAAAGTGGAAAAATGACTTTGAGCAGAACTTC



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AGGATCTTCAAGGAGAAAAGGATGCCTTGGATTCTGAAAAGCAGCAGATCACTACACAAAAACAAGACCT  
GGAAGCAGAGGTGTCCAAGCTGACAGGAGAGGTTGCCAAGCTGTCAAAGAACTAGAAGATGCCAAGAAG  
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GTTGGCCGTGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217569 representing NM\_001107393  
 Red=Cloning site Green=Tags(s)

MEPSGGGLGPRGTRDKKKGRSPDELPATGGDGGKHKKFTLKRLMADELERFTSMRIKKEKEKPNSAHRN  
 SSASYGDDPTAQLQDI SDDQVLVLFQQLVDMNLNEEKQQLREKDIVIKREMVSQYLHTSKAGMNOKE  
 SRSAMMYIQELRSLRDMHLLSCLSLRVSLNNPVSQVQTFGAEGLASLLDILKRLHDEKEETSGNYD  
 SRNQHEIIRCLKAFMNNKFGIKTMLETEEGILLLVRAMDPAVPMNMMIDAAKLLSALCILPQPEDMNERVL  
 EAMTERAEMEEVERFQPLLDGLKSGTSIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQEL  
 REIDNDDMRVQLNVFDEQGEDFFDLKGRLLDDIRMEDDFGEVFIILNTVKDSKAEPHLSILQHLLLV  
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 PGVGVPPPPPLPGGGLPPPPPPFGAPGIPPPPPGMVPPPPPFVGFIPAAPVLPFGLTPKKVYKPEV  
 QLRRPNWSKFAEDLSQDCFVTKVEDRFENNELFAKLTLAFSAQTKTSKAKKDQEGGEEKKSVQKKKVK  
 ELKVLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPPEQLKMLSELKEEYDDL  
 AESEQFGVVMGTVPRLRRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSENFSSLLELTLLVGNM  
 NAGSRNAGAFGFNISFLCKLRDTKSADQKMTLLHFLAELCETDHPDVLKFPDELAHVEKASRVAENLQK  
 NLDQMKKQIADVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHSNMETLYKELGDYFVDFPK  
 KLSVEEFFMDLHNFRNMFLQAVKENQKRRETEEKMRRAKLAKEKAERLEKQKREQLIDMNAEGDETG  
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 VGRAS

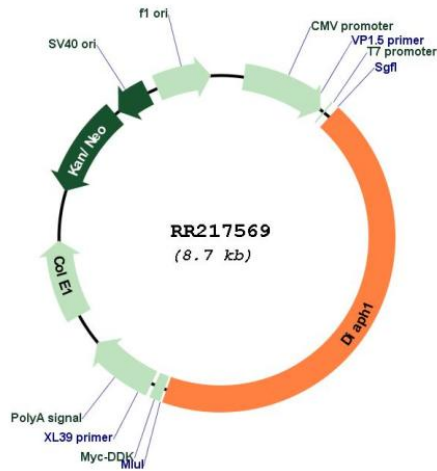
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001107393

**ORF Size:** 3795 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\\_001107393.2](#), [NP\\_001100863.2](#)

**RefSeq Size:** 5588 bp

**RefSeq ORF:** 3798 bp

**Locus ID:** 307483

**Cytogenetics:** 18p11

**MW:** 140.4 kDa