

Product datasheet for **MR230455**

Repin1 (NM_175099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Repin1 (NM_175099) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Repin1
Synonyms:	AI425994; Ap4; E430037F08Rik; Zfp-464; Zfp464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230455 representing NM_175099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGAACAGCGCTGCAGGGGCCACGGCCATGGGCCAGCTCAGCCCTGGCTCTTTCTGGGCCCT
 CCCAGGAGTCTCCAGCCCACAGAGGGTTGAGGTACCAGGGCAAATCAGCTCAGCCAAGAGGCCAAAC
 CCCAGGCAAGGTCCATCGTTGTGCCACTGTGGAAGCGCTTCCCGGGCTGGGTGGCCCTGTGGTTCAT
 GCTCGGCGGTGCCAGGCCGGCTGCCTCTGCCCTGCCATGAATGCAACCAGCGCTTTCGCCACGCCCCCT
 TCTTAGCGCTGCATCTTCAGGTTTCATGCTTCTGCAGTCCCGACCTGGGTTTCATCTGCCACCTATGTGG
 GCATAGCTTCCGAGGATGGGTAGCCCTGGTCTGCATCTGCGGGCTCACTCAGCTTCAAAGCGGCCATC
 ACTTGCCTGAATGCGACAGACGCTTCTGGCGAAAAACAGCTTCGAGCTCATCTGCGAAGGTGCCAGC
 CCCCTGTCCCTGAGGCCCGCCCTTCATATGCGGCAACTGTGGCCGGAGCTTTGCCCAATGGGACCAACT
 GGTGTTCACAAGCGGGTGCACGTGGCTGAGGCCTTGGAGGAGCAGCAGCCAAAGCCCTGGGTCTCGC
 CCACGAGGACGTCCCGCAGCTCCAGGCCTGGTGGAGACGCTGTGGACCGCCCTTCAGTGTGCCTGCT
 GCGGCAAGCGTTTCCGCCACAAGCCCAATCTGATCGCCACCGCCGCGTGCACACTGGTGTGAGCGACCACA
 CCAGTGCCAGAGTGGGGAAGCGTTTACCAACAAGCCCTACCTGACCTCGCACCGGCGCATACATACC
 GGCGAGAAGCCCTACCATGCACCGAGTGTGGCCGCGCTTCCGCCACAAACCAACCTGTTGTGCGACA
 GCAAAATCCACAAGCGCTTGGAGGTCTCAGCGCAGGCTGCCACACACCCCGAGAGTACCAGATTGCAGC
 AGAGCCTATGGCACAACCTGCACTTGGGGTGCCCTGGGGTCCCGCGGACCCAGCTGAGGCACCTGCG
 CTCTGCATAGCTGCTCCGACTGCGGCCGACGTTCCGGCTGGAGCGCTTCTGCGGCTACACAGAGGC
 AGCACACAGGGGAGAGGCCCTTCGCCTGCACAGAGTGTGGCAAGAACTTCGGCAAGAAGACGCACCTGGT
 GGCGCACTCACGCGTGCACCTCCGGCGAACGTCCTTCGCTGCGAGGAGTGTGGTCCCGTTTCTCACAG
 GGCAGCCACCTGGCAGCCACCGGCGAGACCATGCACCAGAGAGGCCCTTCGTGTGCCCGGACTGCGGCA
 AGGCTTCCGCCACAAGCCCTACCTGGCTGCGCACCGACGCATCCACACAGGCGAGAAACCCATGTGTG
 TCCCGACTGTGGCAAAGCTTTCAGTCAGAAGTCCAACCTGGTGTCCACCGGCGCATCCACACAGGCGAG
 CGGCCCTACGCTGCCCGACTGTGATCGTAGCTTCAGTCAGAAGTCCAATCTTATCACACCGGAAGA
 GCCACATCCGGGATGGCGCTTCTGTTGTGCCATCTGTGGCCAGACCTTTGATGACGAGGACCGACTCTT
 GATGCACCAGAAGAAGCATGATGCC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230455 representing NM_175099
 Red=Cloning site Green=Tags(s)

MLEQRCRGPTAMGPAQPWLFSGPSQESSQPDRGLRYQGKSAQPRGQTPGKVHRCACHCRKRFPGWVALWLH
 ARRCQARLPLPHECNQRFRRHAPFLALHLQVHASAVPDLGFICHLCHSFRGWVALVHLRAHSASKRPI
 TCPECDRRFWRQQLRAHLRRCQPPVPEARPFICGNCGRSFAQWDQLVVHKRVHVAEAL EEAALGPR
 PRGRPAAPRPGGDAVDRPFQCACCGKFRHKPNLIAHRRVHTGERPHQCPECGKRFNTKPYLTSRRRIHT
 GEKPYPCTEGRRFRHKPNLLSHSKIHKRLEVSAQAAPHESHQIAAEPMAQPALGVPLGSPRTPAEAPA
 LLHSCSDCGRSFRLERFLRLHQRQHTGERPFACTECGKNFGKTHLVAHSRVHSGERPFAECEGRRFSQ
 GSHLAAHRRDHAPERPFVCPDCGKAFRHKPYLAAHRRRIHTGEKPYVPCDCGKAFSQKSNLVSHRRRIHTGE
 RPYACPCDRSFQKSNLITHRKSHIRDGAFCCAICGQTFDDEDRLLMHQKHKDA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_175099

ORF Size: 1635 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_175099.3](#), [NP_780308.2](#)

RefSeq Size: 2991 bp

RefSeq ORF: 1638 bp

Locus ID: 58887

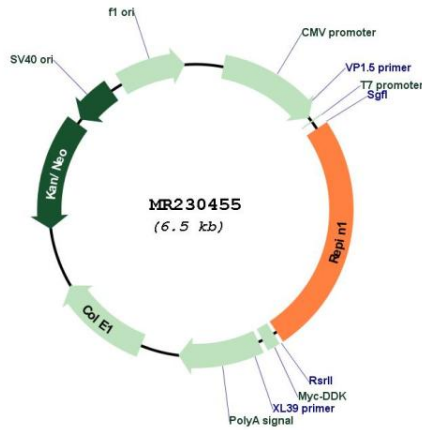
UniProt ID: [Q5U4E2](#)

Cytogenetics: 6 B2.3

MW: 62.3 kDa

Gene Summary: Sequence-specific double-stranded DNA-binding protein required for initiation of chromosomal DNA replication. Binds on 5'-ATT-3' reiterated sequences downstream of the origin of bidirectional replication (OBR) and a second, homologous ATT sequence of opposite orientation situated within the OBR zone. Facilitates DNA bending (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230455