

Product datasheet for **MR222078**

Zic2 (NM_009574) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zic2 (NM_009574) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zic2
Synonyms:	HPE5; Ku
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222078 representing NM_009574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTCTGGACGCGGGGCCAGTTCCTCGGCCATCGGGGTGGCAGCTTCGCGGCCACCACCACCACT
 CGGCCGCGGCAGCGGCGGCTGCGCGGCCGAGATGCAGGACCGGAGCTGAGCCTGGCGGCAGCTCAGAA
 CGGCTTCGTGGACTCGGCGCGGCGCACATGGGCGCTTCAAGCTCAACCCCGGGGCACACGAACTGTCT
 CCTGGTCAGAGTTCGGGCTTACGTCGCAAGTCCGGGTGCTTACCCGGGTTTCGGCTGCTGCAGCCGCTG
 CGGCCGCGGCTCTAGGGCCCCACGCCGACACGTTGGCTCCTATTCGGGGCTCCCTTAAATCCACCCG
 GGACTTCTGTTCGCGAGCCGGGCTTCGGGGACTCGGCGCCGGGAGGCGGGCAGCACGGGCTCTTCGGA
 CCCGGCGCGGCGGCTTACCACGCGCACTCGGACGCGCAGGGCCACCTTCTTTCCCTGGCCTCCCGG
 AGCAGCACGGGCGCAGCCTCGCAGAAGTGTCAATGGCAAATGCGCCTAGGGCTGCCGGGCGAGGT
 GTTCGGGCGCTCGGAGCAATACCGCAAGTGGCCAGCCCGCGGACCGACCCTACTCGGCGGCGCAGCTC
 CACAACCACTACGGCCCTATGAATATGAACATGGGGATGAACATGGCAGCGGCCGAGCCACCACCACC
 ATCACCACCACCACCCTGGTGCCTTTTTCCGCTACATGCGGCAGCAGTGCATCAAGCAAGAGCTCATCTG
 CAAGTGGATCGACCCGGAGCAGTAAGCAATCCCAAGAAAAGCTGCAACAAAACCTTTCAGCACCATGCAC
 GAGCTGGTGACCCACGCTCTGTGGAGCAGCTCGGCGGCCCGGAACAGAGCAACCACGCTGCTTCTGGG
 AGGAGTGTCCACGCGAGGGCAAACCTTTAAGGCCAAATACAACTGGTCAACCACATCCGCGTGACAC
 TGGCGAGAAGCCCTTCCCTGTCTTTCCGGGCTGTGGCAAGGTCTTCGCACGCTCCGAGAACCTCAAG
 ATCCACAAAAGAACTCATACAGGGGAGAAACCTTCCAGTGTGAGTTCGAGGGCTGTGACCGGCGCTTCG
 CCAACAGCAGCGACAGGAAGAAGCACATGCATGTCCACACCTCAGATAAGCCCTATCTCTGCAAGATGTG
 TGACAAGTCTTACACGCATCCCAGCTCGTTGCGGAAGCACATGAAGGTCCATGAGTCTCCCTCAGGGC
 TCCGAGTCTCCCGGCTGCCAGCTCTGGTACGAGTCTCCACACCCCGGGGTTGGTGTCCCCACGCG
 CAGAGCCACAAAGCAGCTCCAACCTGTCCCAGCAGCGGCGCAGCAGCAGCAGCGGCTGCGGCAGCAGC
 GGCCGCGGTGTCCGAGTGCACCGAGGCGGGTCTGGCAGCAGCGGCTCCGGAGGGGCTCGGCGGCC
 GGCAGCGGTGGGGCGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
 CCGGAGGCCATAGCGGCTCTCTCCAACCTCAATGAATGGTACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222078 representing NM_009574
 Red=Cloning site Green=Tags(s)

MLLDAGPQFPAIGVGSFARHHHHSAAAAAAAAAEMQDRELSLAAAQNGFVDSAAAHMGAFKLNPGAHEL
 PGQSSAFTSQGPAYPGSAAAAAAAAALGPHAAHVGSYSPPFNSTRDFLFRSRFGDSAPGGGQHGLFG
 PGAGGLHHAHSDAQGHLLFPGLPEQHGHASQNVLNGQMRLGLPGEVFRSEQYRQVASPRDPYSAAQL
 HNQYGPMMNMGNMMAAAAHHHHHHHHPGAFFRYMRQQCICKQELICKWIDPEQLSNPKKSCNKTFSTMH
 ELVTHVSVHVGPEQSNHVCWFEECPREGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENK
 IHKRHTHTEKPFQCFEGCDRRFANSSDRKHMHVHTSDKPYLCKMCDKSYTHPSSLRHKMKVHESPQG
 SESSPAASSGYESSTPPGLVSPSAEPQSSNLSPAAAAAAAAAAAAAAAAAVSAVHRGAGSGSSGSGGGSAA
 GSGGGGGAGGGGGSSGGGSGTGGHSGLSSNFNEWYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9033_h02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_009574

ORF Size: 1587 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

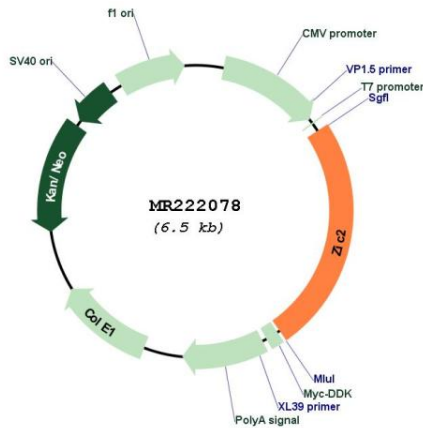
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_009574.3](#), [NP_033600.3](#)

RefSeq Size: 2967 bp
 RefSeq ORF: 1590 bp
 Locus ID: 22772
 Cytogenetics: 14 65.97 cM
 MW: 55.3 kDa

Product images:



Circular map for MR222078