

Product datasheet for **MG222078**

Zic2 (NM_009574) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zic2 (NM_009574) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zic2
Synonyms:	HPE5; Ku
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222078 representing NM_009574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCTGGACGCGGGGCCAGTTCCTCGGCCATCGGGGTGGCAGCTTCGCGGCCACCACCACCACT
 CGGCCCGCGCAGCGCGGCTGCGCGGCCGAGATGCAGGACCGCAGCTGAGCCTGGCGGCAGCTCAGAA
 CGGCTTCGTGGACTCGGCGCGCGCACATGGCGCCTTCAAGCTCAACCCCGGGGCACACGAACTGTCT
 CCTGGTCAGAGTTCGGCCTTACGTCGCAAGTCCGGGTGCTTACCCGGGTTTCGGCTGCTGCAGCCGCTG
 CGGCCCGGCTCTAGGGCCCCACGCCGACACGTTGGCTCCTATTCGGGGCTCCCTTAAATCCACCCG
 GGACTTCTGTTCCGACGCGGGGCTTCGGGGACTCGGCGCCGGGAGGCGGGCAGCACGGGCTTTCGGA
 CCCGGCGCGGGCCTTACCACGCGCACTCGGACGCGCAGGGCCACCTTCTTTCCCTGGCTCCCGG
 AGCAGCACGGGCGCAGCCTCGCAGAAGTGTCAATGGCAAATGCGCCTAGGGCTGCCGGGCGAGGT
 GTTCGGGCGCTCGGAGCAATACCGCAAGTGGCCAGCCCGCGGACCGACCCTACTCGGCGGCGCAGCTC
 CACAACCACTACGGCCCTATGAATATGAACATGGGGATGAACATGGCAGCGGCCCGAGCCACCACCACC
 ATCACCACCACCACCCTGGTGCCTTTTCCGCTACATGCGGCAGCAGTGCATCAAGCAAGAGCTCATCTG
 CAAGTGGATCGACCCGGAGCAGTAAGCAATCCCAAGAAAAGCTGCAACAAAACCTTTCAGCACCATGCAC
 GAGCTGGTGAACACGCTCTGTGGAGCAGTCCGGCGGCCGGAACAGAGCAACCACGCTGCTTCTGGG
 AGGAGTGTCCACGCGAGGGCAAACCTTTAAGGCCAAATACAACTGGTCAACCACATCCGCGTGCACAC
 TGGCGAGAAGCCCTTCCCTGTCTTCCCGGGCTGTGGCAAGTCTTCGCACGCTCCGAGAACCTCAAG
 ATCCACAAAAGAAGTATACAGGGGAGAAACCTTCCAGTGTGAGTTCGAGGGCTGTGACCGGCGCTTCG
 CCAACAGCAGCGACAGGAAGAAGCACATGCATGTCCACACCTCAGATAAGCCCTATCTGCAAGATGTG
 TGACAAGTCTACACGCATCCAGCTCGTTGCGGAAGCACATGAAGGTCCATGAGTCTCCCTCAGGGC
 TCCGAGTCTCCCGGCTGCCAGCTCTGGTACGAGTCTCCACACCCCGGGGTTGGTGTCCCCACGCG
 CAGAGCCACAAAGCAGCTCCAACCTGTCCCCAGCAGCGCGGCAGCAGCAGCAGCGGCTGCGGCAGCAGC
 GGCCGCGGTGTCCGAGTGCACCGAGGCGCGGTTCTGGCAGCAGCGGCTCCGGAGGGGGCTCGGCGGCC
 GGCAGCGGTGGGGGCGCGGGGGCGGGGGCGGGGGCGGGGGCGGGGGCGGGGGAGCTCTGGCGGGGCGCAGCGGACAA
 CCGGAGGCCATAGCGCCTCTCTCCAACCTCAATGAATGGTACGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222078 representing NM_009574
 Red=Cloning site Green=Tags(s)

MLLDAGPQFPAIGVGSFARHHHHSAAAAAAAAAEMQDRELSLAAAQNGFVDSAAAHMGAFKLNPGAHEL
 PGQSSAFTSQGPGAYPGSAAAAAAAAAALGPHAAHVGSYSGPPFNSTRDFLFRSRFGDSAPGGGQHGLFG
 PGAGGLHHAHSDAQGHLLFPGLPEQHGHASQNVLNGQMRLGLPGEVFRSEQYRQVASPRTPYSAACL
 HNQYGPMMNMGMNMAAAAHHHHHHHHPGAFFRYMRQQCICKELICKWIDPEQLSNPKKSCNKTFSTMH
 ELVTHVSVHVGPEQSNHVCWFEECPREGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENK
 IHKRTHTGEKPFQCFEGCDRRFANSSDRKHMVHTSDKPYLCKMCDKSYTHPSSLRHKMKVHESPQG
 SESSPAASSGYESSTPPGLVSPSAEPQSSNLSPAAAAAAAAAAAAAAAAAVSAVHRGAGSGSSGSGGSA
 GSGGGGGAGGGGGSSGGSGTGGHSLSSNFNEWYV

TRTRPLE – GFP Tag – V

Restriction Sites:

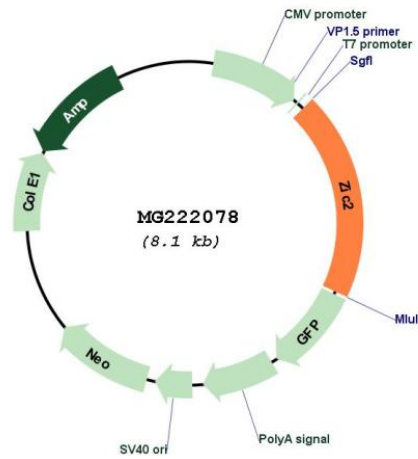
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_009574
ORF Size:	1587 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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