

Product datasheet for **MG207138**

Zic1 (BC063247) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zic1 (BC063247) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zic1
Synonyms:	ZIC, ZNF201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207138 representing BC063247
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCTGGACGCCGACCCAGTATCCCGCATTGGTGTGACCACCTTGGTGCATCCCGGCACCACT
 CGGCGGGCGAGCTGGCCGAGAGAGACGTGGCCTGGGTATCAACCCGTTCCGCCGACGGCATGGGCGCCTT
 CAAGCTCAACCCAGTTCGCACGAAGTGGCCTCGGCTGGCCAGACAGCCTTCACGTCGCAGGCTCCGGGC
 TACGCCGTGCTGCGGCCCTGGCCACCATCACCACCCGGCCACGTCCGCTCCTACTCCAGCGTGCTT
 TCAATTACCCGGGACTTTCTGTTCCGCAACCGGGCTTCGGCGACGCGCGGGCCAGCTAGCGCCCA
 GCACAGTCTTTCGCTGCTTCGGCCGGCGGCTTGGGGGCCACACGGCCATACGGACGCCGCGGGCCAC
 CTCCTTTTTCTGGGCTTACGAGCAGGCGGCTGGCCACGCTTCGCCAACGTGGTTAACGGGCAGATGC
 GGCTAGGTTTCTCCGGGACATGTACCCACGGCCGGAACAGTACGGCCAGGTACCAGCCCGCATCCGA
 GCACTATGCTGCCCGCAGCTTACGGCTATGGGCCCATGAACGTGAACATGGCTGCACATCAGGGGCT
 GGAGCCTTCTCCGCTATATGCGCCAACCCATCAAGCAAGAGCTTATCTGTAATGGATCGAGCCGGAGC
 AGCTGGCCAACCCAAAAAGTCGTGCAACAAACTTTCAGCACCATGCACGAGCTGGTACGCACGTCAC
 GGTGGAGCACGTCCGGCGCCAGAGCAGAGCAACCACATCTGCTTCTGGGAGGAGTGTCCACGCGAGGGC
 AAGCCCTTCAAAGCCAAATACAACTGGTCAACCACATCCGAGTGCACACAGGCGAAAAGCCTTTCCCT
 GCCCGTTTCTGGCTGCGGCAAGTTTTTCGCGCTTCAGAGAACCTCAAGATCCACAAAAGGACACACAC
 AGGGGAGAAGCCCTTCAAGTGCAGTTCGAGGGCTGCGACCGGCTTCGCCAACAGCAGCGACCCGAAG
 AAGCACATGCACGTGCACACGAGCGACAAGCCCTACCTTTCAGAGTGTGCGATAAGTCTACACGCACC
 CCAGCTCTGCGTAAACACATGAAGTCCATGAGTCTCTTCTCAGGGCTCACAGCCTTCGCCCGCCGC
 CAGCTCGGGGTATGAGTGTCCACGCCACCCACCATCGTGTCTCCACAACAGACAACCCGACCCAGC
 TCCATGTCGCCCTCTCTCCGCGGTTACCACACAGCCGGCCACAGCGCTCTCTTCCATTTTAAACG
 AATGGTACGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207138 representing BC063247
 Red=Cloning site Green=Tags(s)

MLLDAGPQYPAIGVTTFGASRHHSAGDVAERDVGLGINPFADGMGAFKLNPSHELASAGQTAFTSQAPG
 YAAAAALGHHHPGHVGSYSSAAFNSTRDFLFRNRGFGDAAAAASAQHSLFAASAGGFGGPHGHTDAAGH
 LLFSGLHEQAAGHASPNNVNGQMRLGFSGDMYRPEQYQVTSRSEHYAAPQLHGYPMMNVNMAHHGA
 GAFFRYMRQPIKQELICKWIEPEQLANPKKSCNKTFTMHVTHVTVVEHVGPEQSNHICFWECPREG
 KPFKAKYKLVNHIRVHTGEKPFPCFPFGCGKVFARSENKIHKRTHTGEKPFKCEFECDRRRFANSSDRK
 KHMVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESSSQSQSPSPAASSGYESSPTPTIVSPTTNDNPTTS
 SMSPTSSAVHHTAGHSALSSNFNEWYV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC063247

ORF Size: 1343 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: [BC063247](#), [AAH63247](#)

RefSeq Size: 3087 bp

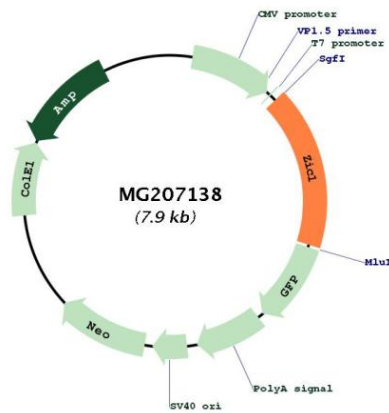
RefSeq ORF: 1343 bp

Locus ID: 22771

Cytogenetics: 9 48.26 cM

Gene Summary:

Acts as a transcriptional activator. Involved in neurogenesis. Plays important roles in the early stage of organogenesis of the CNS, as well as during dorsal spinal cord development and maturation of the cerebellum. Involved in the spatial distribution of mossy fiber (MF) neurons within the pontine gray nucleus (PGN). Plays a role in the regulation of MF axon pathway choice. Promotes MF migration towards ipsilaterally-located cerebellar territories. May have a role in shear flow mechanotransduction in osteocytes. Retains nuclear GLI1 and GLI3 in the cytoplasm. Binds to the minimal GLI-consensus sequence 5'-TGGGTGGTC-3'.
[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG207138