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Product datasheet for MG223858

Zic3 (NM_009575) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zic3 (NM_009575) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zic3
Synonyms:	Bn; Ka
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG223858 representing NM_009575
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGATGCTCCTGGACGGAGGCCCGCAGTTCCCTGGGTTGGGAGTGGGCAGCTTCGGTGCTCCGCGCC
ACCACGAGATGCCCAACCGCGAGCCTGCAGGCATGGGATTGAATCCCTTCGGGGACTCAACCCACGCTGC
GGCCGCCGCCGCTGCCGCCGCTGCCTTCAAGCTGAGCCCAGCCACCGCTCACGATCTGTCTTCGGGCCAG
AGCTCAGCGTTCACACCGCAGGGTTCAGGTTATGCCAATGCCCTGGGCCACCATCACCACCACCATCACC
ACCATCACGCCAGCCAGGTGCCCACCTACGGCGGCGCTGCCTCCGCCGCTTTCAACTCCACGCGCGACTT
TCTGTTCCGTCAGCGCGGTTCTGGGCTCAGCGAGGCAGCCTCCGGGGGCGGGCAGCACGGGCTTTTCGCT
GGCTCGGCGAGCAGTCTTCACGCTCCAGCTGGTATTCCTGAGCCTCCTAGCTACTTGCTCTTTCCTGGGC
TTCATGAGCAGGGCGCTGGGCACCCGTCGCCCACAGGGCACGTGGACAACAACCAGGTCCATCTGGGGCT
GCGCGGGGAGCTATTTGGCCGTGCAGACCCATACCGCCCCGTGGCTAGCCCGCGCACGGACCCCTACGCG
GCCAGTGCGCAGTTCCCTAACTATAGCCCCATGAACATGAACATGGGCGTGAACGTGGCGGCCCACCACG
GGCCGGGCGCCTTCTTCCGTTACATGCGGCAGCCCATCAAGCAGGAGCTGTCCTGTAAGTGGATCGAGGA
GGCTCAGCTGAGCCGGCCCAAGAAGAGCTGCGACCGGACCTTCAGCACCATGCATGAGTTGGTTACGCAT
GTTACCATGGAGCATGTGGGGGGCCCGGAGCAGAACAACCACGTCTGCTATTGGGAGGAATGTCCCCGCG
AAGGCAAGTCCTTCAAGGCGAAGTACAAACTGGTCAACCATATCCGAGTGCACACTGGCGAGAAACCCTT
CCCGTGTCCCTTCCCGGGCTGCGGGAAGATTTTTGCCCGCTCTGAGAACCTCAAGATCCACAAGAGGACC
CATACAGGTGAGAAACCTTTCAAATGTGAATTCGAAGGCTGTGACAGACGGTTTGCCAACAGCAGCGACC
GCAAGAAGCACATGCATGTGCACACCTCGGACAAGCCCTATATCTGTAAAGTGTGCGACAAGTCCTACAC
ACACCCGAGCTCCCTGCGCAAACACATGAAGGTTCATGAATCTCAAGGGTCAGATTCCTCCCCTGCTGCC
AGTTCAGGCTATGAATCTTCCACTCCACCCGCTATAGCTTCTGCAAACAGTAAAGATACCACTAAAACCC
CTTCTGCAGTTCAAACTAGCACCAGCCACAACCCTGGACTTCCTCCCAATTTTAACGAATGGTACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223858 representing NM_009575
Red=Cloning site Green=Tags(s)

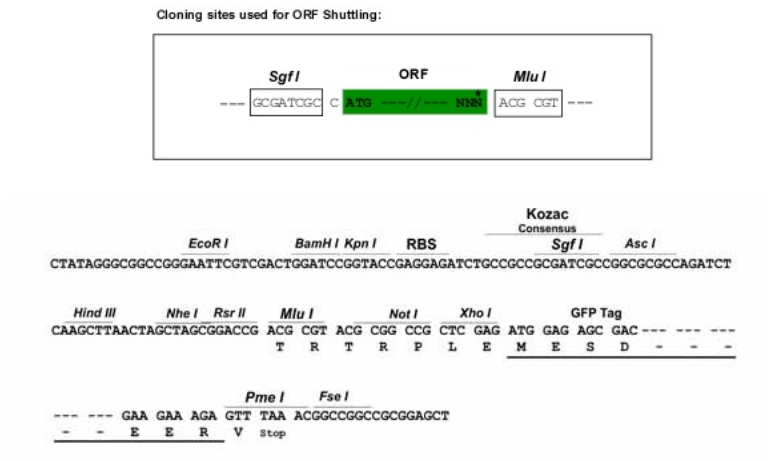
MTMLLDGGPQFPGLGVGSFGAPRHHEMPNREPAGMGLNPFGDSTHAAAAAAAAAAFKLSPATAHDLSSGQ
SSAFTPQGSGYANALGHHHHHHHHHHASQVPTYGGAASAAFNSTRDFLFRQRGSGLSEAASGGGQHGLFA
GSASSLHAPAGIPEPPSYLLFPGLHEQGAGHPSPTGHVDNNQVHLGLRGELFGRADPYRPVASPRTDPYA
ASAQFPNYSPMNMNMGVNVAAHHGPGAFFRYMRQPIKQELSCKWIEEAQLSRPKKSCDRTFSTMHELVTH
VTMEHVGGPEQNNHVCYWEECPREGKSFKAKYKLVNHIRVHTGEKPFPCPFPGCGKIFARSENLKIHKRT
HTGEKPFKCEFEGCDRRFANSSDRKKHMHVHTSDKPYICKVCDKSYTHPSSLRKHMKVHESQGSDSSPAA
SSGYESSTPPAIASANSKDTTKTPSAVQTSTSHNPGLPPNFNEWYV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1486_a07.zip

Restriction Sites: SgfI-MluI

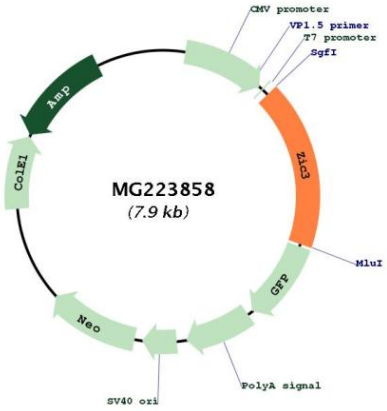
Cloning Scheme:



ACCN:	NM_009575
ORF Size:	1398 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_009575.2, NP_033601.2
RefSeq Size:	4035 bp
RefSeq ORF:	1401 bp
Locus ID:	22773
UniProt ID:	Q62521
Cytogenetics:	X 32.56 cM

Gene Summary: Acts as transcriptional activator. Required in the earliest stages in both axial midline development and left-right (LR) asymmetry specification. Binds to the minimal GLI-consensus sequence 5'-GGGTGGTC-3'.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223858