

Product datasheet for **RC219301**

ZIC4 (NM_032153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIC4 (NM_032153) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZIC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219301 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGATACAAGACATCCTTGGTGATGAGGAAACGATTACGGCTTTACCGAAACTCTTAAAGAGTCAA
GTAGCAGCTCTGGACACCATGGCCCCAGCTCACCGCCGCTCCAGCCCCCGGTGTTCCCGGGCTCCA
CGAGGAGCCTCCCAGGCCTCCCCAGCCGTCTTTGAATGGACTCCTGCGTCTGGGGTCCCTGGAGAC
ATGTACGCGGGCCGGAGCCCTTCCCGCCAGGGCTGCGGCCCGCAGCGACGCCCTGGCAGCTGCCGAG
CCCTGCATGGCTACGGGGCATGAACCTGACGGTGAACCTCGCTGCGCCCCACGGTCTTGGCGCTTCTT
CCGCTACATGCGCCAGCCATCAAACAGGAGCTCATCTGCAAGTGGCTGGCGGCCGACGGCACCGCGACC
CCGAGCCTCTGCTCCAAACTTTCAGCACCATGCACGAGCTGGTACGCACGTCACCGTGGAGCACGTCG
GCGGCCCGGAACAGGCCAACACATTTGCTTCTGGGAGGAGTGTCCGCGCCAGGAAAGCCCTTCAAAGC
CAAATACAACTTGTAATCACATCCGCGTGCACACGGGCGAGAAGCCCTTCCCTTGTCTTTCCCGGGG
TGTGGGAAGTCTTTGCTAGATCAGAAAATCTCAAATACACAAACGAACTCACACAGGCGAGAAGCCCT
TCAGATGCGAGTTCGAGGGCTGCGAGCGGCGCTTCGCCAACAGCAGCGACCGTAAGAAGCATTTCGACGT
GCACACTAGCGACAAGCCATACACGTGCAAGGTGCGGGGCTGCGACAAGTGTACACGCACCCAGCTCG
CTGCGTAAGCACATGAAGGTGCACGGGCGCTCGCCGCCAGCTCTGGCTACGATTCCGGTACACCGT
CTGCCCTCGTGTGCCCTCGTCGACTGCGGCCACAAGTCCAGGTGGCCTCCTCGCGGGGGTGGCGGG
GCGTACCGCCGACTTGAGCGAA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219301 protein sequence
Red=Cloning site Green=Tags(s)

MRYKTSLVMRKRLRLYRNTLKESSSSSGHHPQLTAASSPSVFPGLHEEPPQASPSRPLNGLRLGLPGD
 MYARPEFPFGPAARSDALAAAAALHGYGGMNLTVNLAAPHGPGAFFRYMRQPIKQELICKWLAADGTAT
 PSLCSKTFSTMHELVTHTVEHVGGPEQANHICFWEECPRQKPFKAKYKLVNHIRVHTGEKPFPCFPFG
 CGKVFARSENKIHKRTHTEKPFRCFEFEGCERRFANSSDRKKHSHVHTSDKPYTCKVRGCDKCYTHPSS
 LRKHMKVHGRSPPPSSGYDSATPSALVSPSSDCGHKSQVASSAAVAARTADLSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6465_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032153

ORF Size: 1002 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_032153.6](#)

RefSeq Size: 4278 bp

RefSeq ORF: 1005 bp

Locus ID: 84107

UniProt ID: [Q8N9L1](#)

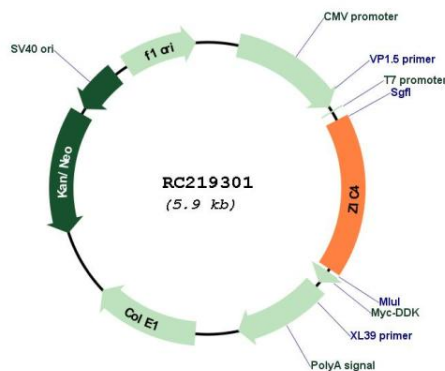
Cytogenetics: 3q24

Domains: zf-C2H2

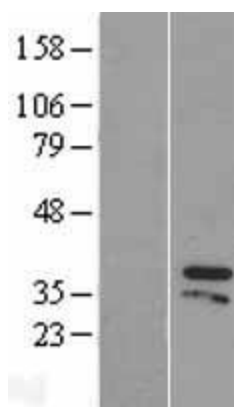
MW: 36.6 kDa

Gene Summary: This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. Members of this family are important during development, and have been associated with X-linked visceral heterotaxy and holoprosencephaly type 5. This gene is closely linked to the gene encoding zinc finger protein of the cerebellum 1, a related family member on chromosome 3. Heterozygous deletion of these linked genes is involved in Dandy-Walker malformation, which is a congenital cerebellar malformation. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RC219301



Western blot validation of overexpression lysate (Cat# [LY410308]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219301 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).