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Product datasheet for RC229971

ZIC4 (NM_001168378) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZIC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229971 representing NM_001168378
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCCCTTCTGTAGGAATGCAAAGTTAGGCCTCCTTTCTTTCCTGATTTGTGCTGGAAGGAGCTTAT
TACCTTTGGGGAAGAATGCCTTTTGGTTAGAAAGAATTGAAAATAATAATACCCTCTGGGAAAAGGCTCA
AAGTCAGAAAATGAGATACAAGACATCCTTGGTGATGAGGAAACGATTACGGCTTTACCGAAACACTCTT
AAAGAGTCAAGTAGCAGCTCTGGACACCATGGCCCCCAGCTCACCGCCGCCTCCAGCCCCTCGGTGTTCC
CGGGCCTCCACGAGGAGCCTCCCCAGGCCTCCCCCAGCCGTCCTTTGAATGGACTCCTGCGTCTGGGGCT
CCCTGGAGACATGTACGCGCGGCCGGAGCCCTTCCCGCCAGGGCCTGCGGCCCGCAGCGACGCCCTGGCA
GCTGCCGCAGCCCTGCATGGCTACGGGGGCATGAACCTGACGGTGAACCTCGCTGCGCCCCACGGTCCTG
GCGCTTTCTTCCGCTACATGCGCCAGCCCATCAAACAGGAGCTCATCTGCAAGTGGCTGGCGGCCGACGG
CACCGCGACCCCGAGCCTCTGCTCCAAAACTTTCAGCACCATGCACGAGCTGGTCACGCACGTCACCGTG
GAGCACGTCGGCGGCCCGGAACAGGCCAACCACATTTGCTTCTGGGAGGAGTGTCCGCGCCAGGGAAAGC
CCTTCAAAGCCAAATACAAACTTGTAAATCACATCCGCGTGCACACGGGCGAGAAGCCCTTCCCTTGTCC
TTTCCCGGGGTGTGGGAAGGTCTTTGCTAGATCAGAAAATCTCAAAATACACAAACGAACTCACACAGGC
GAGAAGCCCTTCAGATGCGAGTTCGAGGGCTGCGAGCGGCGCTTCGCCAACAGCAGCGACCGTAAGAAGC
ATTCGCACGTGCACACTAGCGACAAGCCATACACGTGCAAGGTGCGGGGCTGCGACAAGTGCTACACGCA
CCCCAGCTCGCTGCGTAAGCACATGAAGGTGCACGGGCGCTCGCCGCCGCCCAGCTCTGGCTACGATTCG
GCTACACCGTCTGCCCTCGTGTCGCCCTCGTCGGACTGCGGCCACAAGTCCCAGGTGGCCTCCTCGGCGG
CGGTGGCGGCGCGTACCGCCGACTTGAGCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC229971 representing NM_001168378
Red=Cloning site Green=Tags(s)

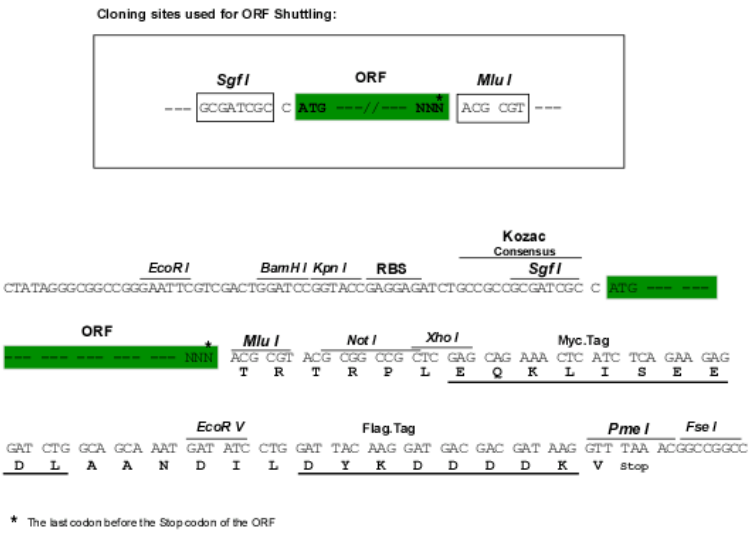
MPPFCRNAKLGLLSFLICAGRSLLPLGKNAFWLERIENNNTLWEKAQSQKMRYKTSLVMRKRLRLYRNTL
KESSSSSGHHGPQLTAASSPSVFPGLHEEPPQASPSRPLNGLLRLGLPGDMYARPEPFPPGPAARSDALA
AAAALHGYGGMNLTVNLAAPHGPGAFFRYMRQPIKQELICKWLAADGTATPSLCSKTFSTMHELVTHVTV
EHVGGPEQANHICFWEECPRQGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENLKIHKRTHTG
EKPFRCEFEGCERRFANSSDRKKHSHVHTSDKPYTCKVRGCDKCYTHPSSLRKHMKVHGRSPPPSSGYDS
ATPSALVSPSSDCGHKSQVASSAAVAARTADLSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001168378

ORF Size: 1152 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001168378.1, NP_001161850.1

RefSeq ORF: 1155 bp

Locus ID: 84107

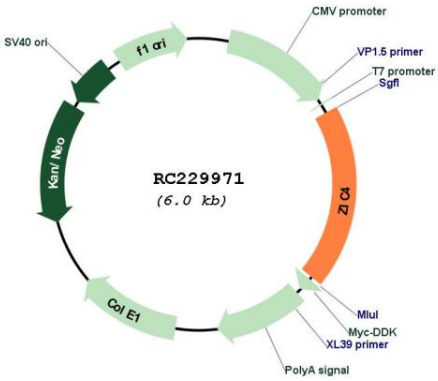
UniProt ID: Q8N9L1

Cytogenetics: 3q24

MW: 42.7 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 RC229971

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate