OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC220375

ZIC3 (NM_003413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIC3 (NM_003413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZIC3
Synonyms:	HTX; HTX1; VACTERLX; ZNF203
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC220375 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGATGCTCCTGGACGGAGGCCCGCAGTTCCCTGGGCTGGGAGTGGGCAGCTTCGGCGCGCCGCGCC
ACCACGAGATGCCCAACCGTGAGCCGGCAGGCATGGGGCTGAATCCCTTCGGGGACTCAACCCACGCCGC
CGCCGCCGCCGCCGCCGCCGCTGCCTTCAAGCTGAGCCCTGCCGCGGCGCACGATCTATCTTCAGGCCAG
AGCTCGGCTTTCACGCCGCAGGGTTCGGGCTACGCCAACGCCCTGGGCCACCATCACCACCACCATCACC
ATCATCACCACACCAGCCAGGTGCCCAGCTACGGTGGCGCTGCCTCTGCCGCCTTCAACTCAACGCGCGA
GTTTCTGTTCCGCCAGCGCAGCTCCGGGCTCAGTGAGGCGGCCTCGGGTGGCGGGCAGCACGGGCTCTTC
GCCGGCTCGGCGAGCAGCCTGCATGCTCCAGCTGGCATCCCCGAGCCCCCTAGCTACTTGCTGTTTCCCG
GGCTGCATGAGCAGGGCGCTGGGCACCCGTCGCCCACAGGGCACGTGGACAACAACCAGGTCCACCTGGG
GCTGCGTGGGGAGCTGTTCGGCCGTGCTGACCCATACCGCCCAGTGGCCAGCCCGCGCACGGACCCCTAC
GCGGCCGGCGCTCAGTTTCCTAACTACAGCCCCATGAACATGAACATGGGAGTGAACGTGGCGGCCCACC
ACGGGCCCGGCGCCTTCTTCCGTTATATGCGGCAGCCTATCAAGCAGGAGCTGTCGTGCAAGTGGATCGA
CGAGGCTCAGCTGAGCCGGCCCAAGAAGAGCTGCGACCGGACCTTCAGCACCATGCATGAGCTGGTGACA
CATGTCACCATGGAGCATGTGGGGGGCCCGGAGCAGAACAACCACGTCTGCTACTGGGAGGAGTGCCCCC
GGGAGGGCAAGTCTTTCAAGGCGAAGTACAAACTGGTCAACCACATCCGAGTGCACACGGGCGAGAAGCC
CTTCCCATGCCCCTTCCCGGGCTGCGGGAAGATCTTTGCCCGTTCTGAGAACCTCAAGATCCACAAGAGG
ACCCACACAGGTGAGAAACCTTTCAAATGTGAATTTGAAGGCTGTGACAGACGCTTTGCCAACAGCAGCG
ACCGTAAGAAGCACATGCATGTGCATACCTCGGACAAGCCCTATATCTGCAAAGTGTGCGACAAGTCCTA
CACGCACCCGAGCTCCCTGCGCAAACACATGAAGGTTCATGAATCTCAAGGGTCAGATTCCTCCCCTGCT
GCCAGTTCAGGCTATGAATCTTCCACTCCACCCGCTATAGCTTCTGCAAACAGTAAAGATACCACTAAAA
CCCCTTCTGCAGTTCAAACTAGCACCAGCCACAACCCTGGACTTCCTCCTAATTTTAACGAATGGTACGT
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220375 protein sequence
Red=Cloning site Green=Tags(s)

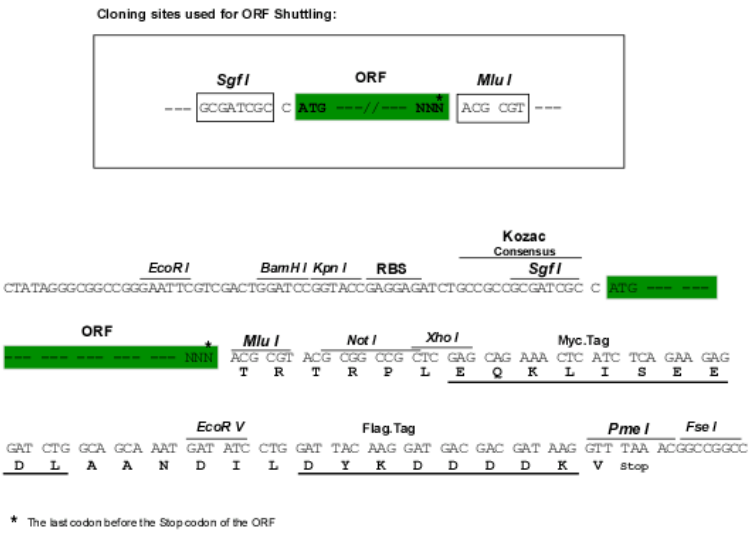
MTMLLDGGPQFPGLGVGSFGAPRHHEMPNREPAGMGLNPFGDSTHAAAAAAAAAAFKLSPAAAHDLSSGQ
SSAFTPQGSGYANALGHHHHHHHHHHHTSQVPSYGGAASAAFNSTREFLFRQRSSGLSEAASGGGQHGLF
AGSASSLHAPAGIPEPPSYLLFPGLHEQGAGHPSPTGHVDNNQVHLGLRGELFGRADPYRPVASPRTDPY
AAGAQFPNYSPMNMNMGVNVAAHHGPGAFFRYMRQPIKQELSCKWIDEAQLSRPKKSCDRTFSTMHELVT
HVTMEHVGGPEQNNHVCYWEECPREGKSFKAKYKLVNHIRVHTGEKPFPCPFPGCGKIFARSENLKIHKR
THTGEKPFKCEFEGCDRRFANSSDRKKHMHVHTSDKPYICKVCDKSYTHPSSLRKHMKVHESQGSDSSPA
ASSGYESSTPPAIASANSKDTTKTPSAVQTSTSHNPGLPPNFNEWYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6461_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003413

ORF Size: 1401 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_003413.4

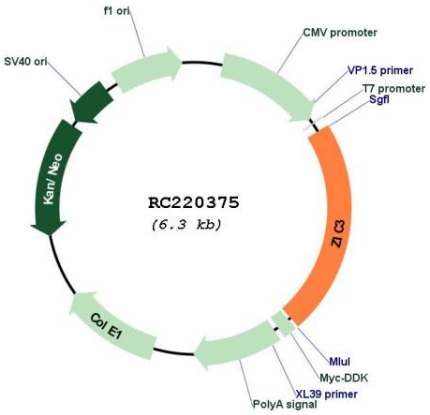
RefSeq Size: 3939 bp

RefSeq ORF: 1404 bp

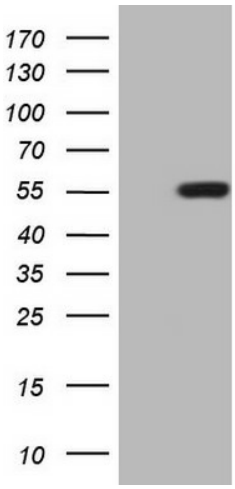
Locus ID: 7547

UniProt ID:	O60481
Cytogenetics:	Xq26.3
Protein Families:	Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS
MW:	50.6 kDa
Gene Summary:	This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. This nuclear protein probably functions as a transcription factor in early stages of left-right body axis formation. Mutations in this gene cause X-linked visceral heterotaxy, which includes congenital heart disease and left-right axis defects in organs. [provided by RefSeq, Jul 2008]

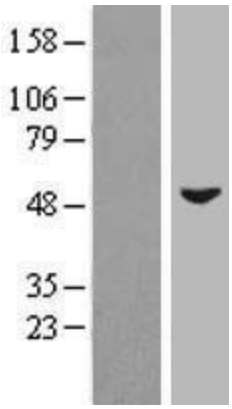
Product images:



Circular map for RC220375



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZIC3 (Cat# RC220375, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZIC3 (Cat# [TA808167])(1:500). Positive lysates [LY418705] (100ug) and [LC418705] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418705]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).