

Product datasheet for **RC228942**

ZIM2 (NM_001146327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIM2 (NM_001146327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZIM2
Synonyms:	ZNF656
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228942 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACCAACAGAACGACACAACAACAGTGACGTGACCAGTGACGACGACATGACCCGGAACAGAAGAG
 AGTCTCACACCTCACTCAGTCCATTCTTTCAGTGGTGACCGGACTGGGACCGGAGGGGCAGAAGCAG
 AGACATGGAGCCACGAGACCGCTGGTCCCACACAGGAACCCAAGAAGCAGGATGCCTCCGCGGGATCTT
 TCCCTTCTGTGGTGGCGAAAACAAGCTTTGAAATGGACAGAGAGGACGACAGGGACTCCAGGGCTTATG
 AGTCCCGATCTCAGGATGCTGAATCATACCAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACAA
 CACAATCCAGGACAACATGGAACACTACAGGAAGCTGCTCTCCCTCGTTTCTTGTCTCAGGACTCTGTC
 CCTGCAGAAAAGAGGAACACAGAGATGTTAGACAACTGCCATCTGCTGGGTCCCAGTTCGCGGACTTCA
 AACACTTAGGAACATTTCTGGTGTGGAGAGTGGTGACCTTCGAGGATGTGCTTGTGGACTTCAGCCC
 AGAGGAACCTTAGCTCCCTTAGTGTCTCAGAGAAACCTCTACAGGGAGGTGATGCTGGAGAATTACCGG
 AACCTGGTCTCCCTGGGGACCAGTTCTCTAAACCTGACATTATCTCACGCCTGGAAGAGGAGGAATCAT
 ATGCAATGGAGACAGACAGCAGACATACAGTGATTTGTCAAGGAGAGTCTCATGATGATCCATTGGAACC
 ACACCAGGGCAACCAAGAGAACTTTTACTCTATAACAATGAATGACCCCAAGACCCTCACTCCGGAA
 AGAAGCTATGGCAGTGATGAATTTGAGAGAAGCTTAATCTTAGTAAACAATCAAAGGATCCTCTAGGAA
 AGGATCCCCAGGAAGGCACTGCTCCTGGAATATGTACGAGTCCCCAGTCAGCATCCAAGAGAACAAACA
 CAACAGATGTGAATTTGCAAACGAACCTTTAGTACGCAAGTAGCCCTTAGGAGACACGAACGGATCCAT
 ACTGGGAAGAAACCTATGAATGTAAACAGTGTGCTGAAGCCTTCTATCTCATGCCACACCTCAACAGAC
 ATCAGAAGACCCATTCTGGTAGGAAGACTTCTGGCTGCAATGAAGGTAGAAAGCCTTCGTCAGTGTGC
 GAATCTCTGTGAACGTGTAAGAATTCACAGTACAGGAGGACTACTTTGAATGTTTTTCAGTGGCGCAAAGCT
 TTTCTCCAGAATGTCATCTTCTCAACATCTCAAAGCCCATGAGGCAGCAAGAGTCTTCTCCTGGGT
 TGTCCACAGCAAGACATACTTAATTCGTTATCAGCGAAACATGACTACGTTGGAGAGAGAGCCTGCCA
 GTGTTGTGACTGTGGCAGAGTCTCAGTCGGAATTCATATCTCATTACAGCATTATAGAACTCACACTCAA
 GAGAGGCCTTACCAGTGTGAGCTATGTGGGAAATGTTTCGGCCGACCCTCATACCTCACTCAACATTATC
 AACTCCATTCTCAAGAGAAAACGTTGAGTGGGATCACTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228942 protein sequence
 Red=Cloning site Green=Tags(s)

MYQPEDDNNSDVTSDDDMTRNRRESSPPHSVHSFSGDRDWRDRGRSRDMEPRDRWSHTRNPRSRMPPRDL
 SLPVVAKTSFEMDREDDRDSRAYESRSQDAESYQNVVDLAEDRKPHTIQDNMENYRKL LSLGFLAQDSV
 PAEKRNTEMLDNLPSAGSQFPDFKHLGTFVFEELVTFEDVLVDFSPEELSSL SAAQRNL YREVMLENYR
 NLVSLGHQFSKPDIIISRL EEEEE SYAMETDSRHTVICQGESHDDPLEPHQGNQEKLLTPITMNDPKLTPE
 RSYGSDEFERSSNL SKQSKDPLGKDPQEGTAPGICTSPQSASQENKHNRCFCRRTFSTQVALRRHERIH
 TGKKPYECKQCAEAFYLMPHLNRHQKTHSGRKTSGCNEGRKPSVQCANLCERVRIHSQEDYFECFQCGKA
 FLQNVHLLQHLKAHEAARVLPGLSHSKTYLIRYQRKHDYVGERACQCCDCGRVFSRNSYLIQH YRTH TQ
 ERPYQCQLCGKCFGRPSYLTQHYQLHSQEKTECDHC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6130_d10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001146327

ORF Size: 1581 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_001146327.1](#), [NP_001139799.1](#)

RefSeq Size: 2276 bp

RefSeq ORF: 1584 bp

Locus ID: 23619

UniProt ID: [Q9NZV7](#)

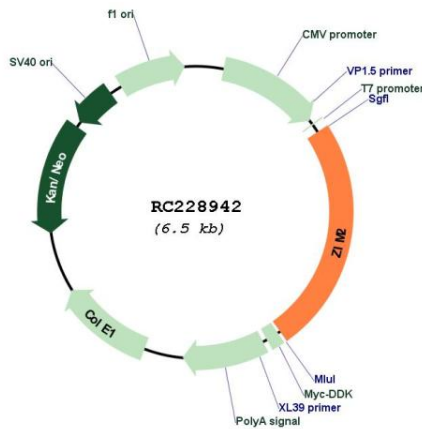
Cytogenetics: 19q13.43

Protein Families: Transcription Factors

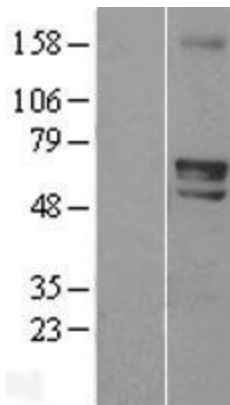
MW: 61.2 kDa

Gene Summary: In human, ZIM2 and PEG3 (GeneID:5178) are two distinct genes that share a set of 5' exons and have a common promoter, and both genes are paternally expressed. Alternative splicing events connect the shared exons either with the remaining 4 exons unique to ZIM2, or with the remaining 2 exons unique to PEG3. This is in contrast to mouse and cow, where ZIM2 and PEG3 genes do not share exons in common, and the imprinting status of ZIM2 is also not conserved amongst mammals. Additional 5' alternatively spliced transcripts encoding the same protein have been found for the human ZIM2 gene. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC228942



Western blot validation of overexpression lysate (Cat# [LY431969]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228942 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).