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Product datasheet for RC222340

Zinc finger MIZ domain containing protein 1 (ZMIZ1) (NM_020338) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc finger MIZ domain containing protein 1 (ZMIZ1) (NM_020338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zinc finger MIZ domain containing protein 1
Synonyms:	MIZ; NEDDFSA; RAI17; TRAFIP10; ZIMP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222340 representing NM_020338
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTCTATGGACAGGCACATCCAGCAGACCAATGACCGACTGCAGTGCATCAAGCAGCACTTACAGA
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CCTTGTTGTCCTCCTGGTGCGAAGAGCTCGGCCGCCTGCTGCTGCTCCGACATCAGAAGAGCCGCCAGAG
CGATCCCCCTGGGAAACTCCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACCCACTCTGTCG
CACAGTGATGGGTCGTTCCCCTATGACTCTGTCCCTTGGCAGCAGAACACCAACCAGCCTCCCGGCTCCC
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CAATGCCAACAACCCCATGAATCCAGGCGGCAACCCCATGGCGTCGGGCATGACCACCAGCAACCCAGGC
CTCAACTCCCCACAGTTTGCGGGGCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACA
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AGCCAAGGGAATGTCAACAGGCCTCCCAGGCCGGTTCCTGTGGCAAATTACCCCCACTCACCTGTTCCAG
GGAACCCCACACCCCCCATGACCCCTGGGAGCAGCATCCCTCCATACCTGTCCCCCAGCCAAGACGTCAA
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Protein Sequence:

>RC222340 representing NM_020338
Red=Cloning site Green=Tags(s)

MNSMDRHIQQTNDRLQCIKQHLQNPANFHNAATELLDWCGDPRAFQRPFEQSLMGCLTVVSRVAAQQGFD
LDLGYRLLAVCAANRDKFTPKSAALLSSWCEELGRLLLLRHQKSRQSDPPGKLPMQPPLSSMSSMKPTLS
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DLPSNSNDDLLSLFENN

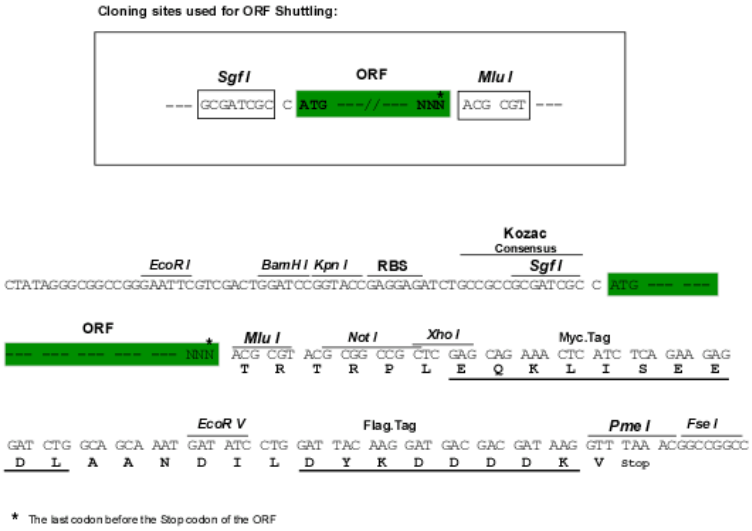
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6168_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020338

ORF Size: 3201 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_020338.4

RefSeq Size: 7041 bp

RefSeq ORF: 3204 bp

Locus ID: 57178

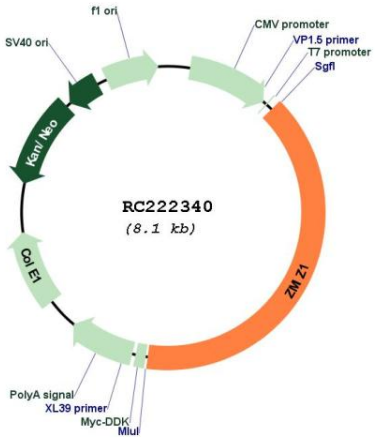
UniProt ID: Q9ULJ6

Cytogenetics: 10q22.3

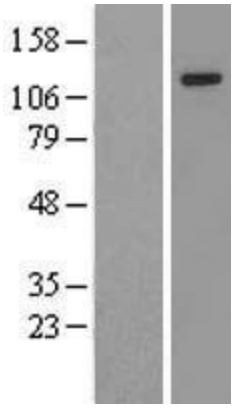
MW: 115.3 kDa

Gene Summary: This gene encodes a member of the PIAS (protein inhibitor of activated STAT) family of proteins. The encoded protein regulates the activity of various transcription factors, including the androgen receptor, Smad3/4, and p53. The encoded protein may also play a role in sumoylation. A translocation between this locus on chromosome 10 and the protein tyrosine kinase ABL1 locus on chromosome 9 has been associated with acute lymphoblastic leukemia. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC222340



Western blot validation of overexpression lysate (Cat# [LY402770]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222340 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).