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Product datasheet for RC213123

ZNF365 (NM_014951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF365 (NM_014951) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF365
Synonyms:	Su48; UAN; ZNF365D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213123 representing NM_014951
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAACAGAAGGCTTTTGAGGAAAGCAGATATCCCTGGCAGGAGTCCTTTGAGAATGTTGCTGTGTGCC
TGCCATTACGCTGCCCGAGGTGTGGAGACCATACCAGATTTAGAAGCTTGTCATCCTTGAGGGCCCATCT
GGAGTTCAGTCACAGCTACGAAGAAAGAACCCTCTTGACAAAATGCAGTCTCTTTCCATCCCTCAAAGAC
ACAGACCTAGTCACTTCCTCAGAACTCCTGAAACCGGGAAAATTGCAGAGCAGTGGCAACGTGGTAAAGC
AGAAACCGAGCTATGTTAACTTGTACAGCATTTCACATGAACATTCCAAGGACAGGAAGCCATTTGAGGT
GGTGGCAGAGAGGCCTGTGTCCTATGTGCAGACCTACACTGCCATGGACCTCCATGCAGACTCGCTGGAT
GGGACACGGTCGGGTCCTGGACTGCCCACCTCAGACACCAAAGCTTCTTTCGAGGCACATGTCAGAGAAA
AATTCAATCGAATGGTTGAGGCTGTGGATAGGACCATTGAGAAGAGAATTGATAAACTCACCAAAGAGTT
GGCCCAGAAAACTGCGGAACTGTTGGAAGTTCGGGCAGCTTTTGTGCAGCTGACTCAGAAAAAGCAGGAA
GTTCAGAGACGAGAGCGGGCCTTAAACAGACAGGTGGACGTGGCCGTGGAAATGATAGCTGTACTGAGGC
AACGCCTGACGGAATCTGAGGAGGAGCTTCTTAGGAAAGAAGAAGAAGTTGTCACATTCAACCATTTCCT
GGAAGCGGCAGCTGAGAAGGAGGTTCAAGGGAAAGCCCGGCTCCAGGACTTTATTGAGAATCTGTTACAG
CGGGTAGAACTGGCGGAGAAGCAGCTTGAGTACTATCAGAGCCAGCAGGCCTCTGGCTTTGTCCGTGATC
TCAGCGGGCACGTGCTTACAGACATCTCCTCAAATAGGAAGCCCAAATGCCTAAGCCGAGGGCACCCGCA
TTCGGTATGTAACCACCCTGATCTCAAGTCCCATTTCCACCCAAAGGGAAGGAACCACCTGAAAAAGGCC
AAGGATGACAGAGCCAGCATGCAGCCTGCCAAGGCCATTCACGAACAGGCTGAGTCCTCAAGAGACCTCT
GCAGACCTCCAAAGAAAGGGGAGCTCCTGGGGTTTGGCCGCAAAGGCAACATCAGGCCCAAAATGGCTAA
AAAAAAGCCAACAGCCATTGTGAACATCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC213123 representing NM_014951
Red=Cloning site Green=Tags(s)

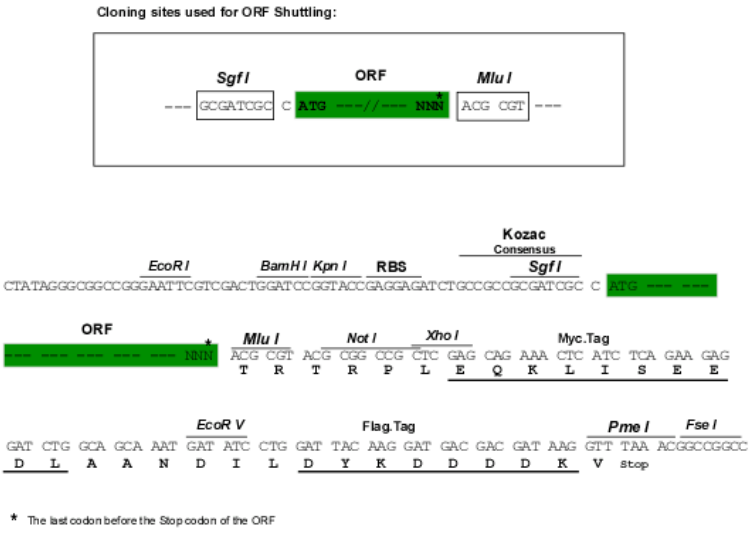
MQQKAFEESRYPWQESFENVAVCLPLRCPRCGDHTRFRSLSSLRAHLEFSHSYEERTLLTKCSLFPSLKD
TDLVTSSELLKPGKLQSSGNVVKQKPSYVNLYSISHEHSKDRKPFEVVAERPVSYVQTYTAMDLHADSLD
GTRSGPGLPTSDTKASFEAHVREKFNRMVEAVDRTIEKRIDKLTKELAQKTAELLEVRAAFVQLTQKKQE
VQRRERALNRQVDVAVEMIAVLRQRLTESEEELLRKEEEVVTFNHFLEAAAEKEVQGKARLQDFIENLLQ
RVELAEKQLEYYQSQQASGFVRDLSGHVLTDISSNRKPKCLSRGHPHSVCNHPDLKSHFHPKGRNHLKKA
KDDRASMQPAKAIHEQAESSRDLCRPPKKGELLGFGRKGNIRPKMAKKKPTAIVNII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6490_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014951

ORF Size: 1221 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_014951.1, NP_055766.1

RefSeq Size: 4158 bp

RefSeq ORF: 1224 bp

Locus ID: 22891

UniProt ID: Q70YC5

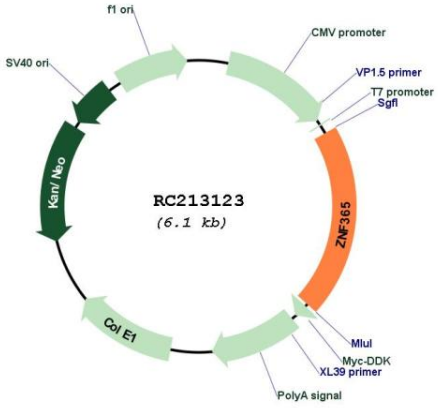
Cytogenetics: 10q21.2

Domains: zf-C2H2

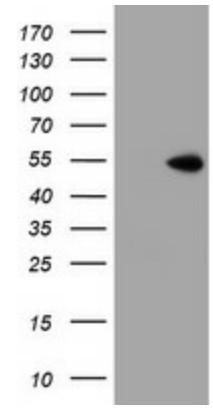
MW: 46.4 kDa

Gene Summary: This gene encodes a zinc finger protein that may play a role in the repair of DNA damage and maintenance of genome stability. The N-terminal C2H2 zinc finger motif is required to form a protein complex with PARP1 and MRE11, which are known to be involved in the restart of stalled DNA replication forks. A mutation in this gene may be associated with breast cancer susceptibility. [provided by RefSeq, Mar 2020]

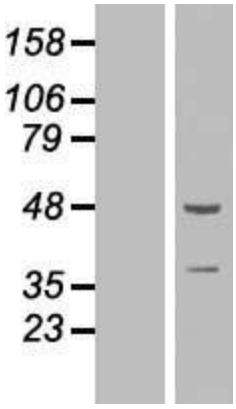
Product images:



Circular map for RC213123



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZNF365 (Cat# RC213123, 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-ZNF365(Cat# [TA800118]). Positive lysates [LY414917] (100ug) and [LC414917] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414917]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).