

Product datasheet for **RC200091**

ZNF581 (NM_016535) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF581 (NM_016535) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF581
Synonyms:	HSPC189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200091 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTGGTGTGCCATCCCCCTGCCCTCAGCCTCTGGCATTTCCTCCGTTGAGACCATGGAGGGCCCTC
 CCCGTCGGAATTGCCGCTCCCAAGAACCTGGACCTTCCTCCTCCATCGGATCTCCCAAGGCTTCATCTCC
 TCCAAGGCCCAACCACTACCTGCTTATTGACACTCAGGGTGTCCCTACACAGTGCTGGTGGACGAGGAG
 TCACAGAGGGAGCCAGGGGCCAGTGGGGCTCCAGGCCAGAAAAAGTGCTACAGCTGCCCCGTGTGCTCAA
 GGGTCTTCGAGTACATGTCTACCTTCAGCGACACAGCATCACCACTCGGAGGTAAGCCCTTCGAGTG
 TGACATCTGTGGGAAGGCATTCAAGCGCGCCAGCACTTGGCACGGCACCATTCCATTACCTGGCGGGT
 GGTGGGCGGCCACGGCTGCCCGCTCTGCCCTCGCCGCTTCGGGATGCGGGTGAGCTGCCCCAGCACA
 GCCGGGTGCACTCTGGGAGCGCCGTTTCAGTGTCCACACTGCCCTCGCCGCTTTATGGAGCAGAACAC
 ACTGCAGAAACACACGCGGTGGAAGCATCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC200091 protein sequence Red=Cloning site Green=Tags(s)
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MLVLPSPCPQPLAFSSVETMEGPPRRTCRSPEPGPSSSIGSPQASSPPRPNHYLLIDTQGVPTVLVDEE
 SQREPGASGAPGQKKCYSCPVCSSRVFEYMSYLQRHSITHSEVKPFECIDCGKAFKRASHLARHHSIHLA
 GGRPHGCPLCPRRFRDAGELAQHSRVHSGERPFCPCPRRFMEQNTLQKHTRWKHP

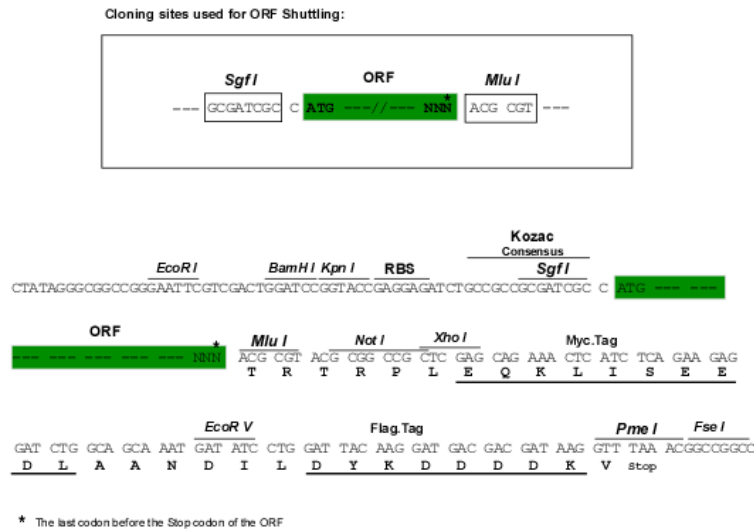
TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mk6394_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016535

ORF Size: 591 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.

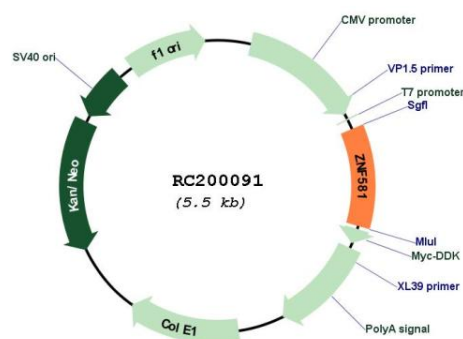
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016535.4](#)

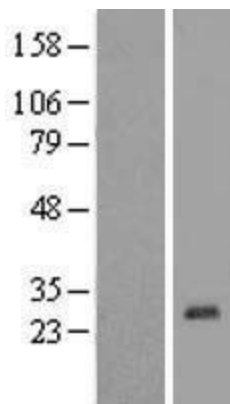
RefSeq Size: 1258 bp

RefSeq ORF:	594 bp
Locus ID:	51545
UniProt ID:	Q9P0T4
Cytogenetics:	19q13.42
Domains:	zf-C2H2
MW:	22 kDa
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

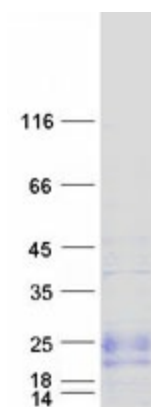
Product images:



Circular map for RC200091



Western blot validation of overexpression lysate (Cat# [LY413920]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200091 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF581 protein (Cat# [TP300091]). The protein was produced from HEK293T cells transfected with ZNF581 cDNA clone (Cat# RC200091) using MegaTran 2.0 (Cat# [TT210002]).