

Product datasheet for **RC228746**

ZNF580 (NM_001163423) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ZNF580 (NM_001163423) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ZNF580
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228746 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCTGCTGCCGCCGCGGCCACCCACCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCC
 CCAAGGCTCCCCCTTTCCCAAGGCGGAAGGCCCTCCTCACTCCTTCTCGGCGGCGGGGCCCGACC
 CCCGCGGTGGGCGCCACCTCCTCATCGACGCCAATGGGGTCCCTACACATACACGGTGCAGCTGGAG
 GAGGAGCCCGGGGCCCGCCCGCCAGCGCGGAGGCCCGCCAGGAGAGCCCGCCCTCGCAAGGGCTACAGCT
 GCCCGGAGTGCGCCGTCTTTGCCAGCCCTTGCCTGCGGCTGCAGAGCCACCGCGTGTGCCTCGGACCT
 CAAGCCCTTACGTGCGGCGCCTGCGGCAAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGCATCGCGCC
 ACGCACCGCGCCCGCGGGGCCCGCACACCTGCCCGCTGTCCACGCCGCTTCCAGGACGCCGCGG
 AGCTGGCGCAGCACGTGCGCCTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228746 protein sequence
 Red=Cloning site Green=Tags(s)

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLE
 EEPGPPQREAPPGEPRKGYSCPECARVFAASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRA
 THRARAGPPHTCPLCPRRFQDAEELAQHVRLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6311_h05.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_001163423

ORF Size: 516 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_001163423.1](#), [NP_001156895.1](#)

RefSeq Size: 1046 bp

RefSeq ORF: 519 bp

Locus ID: 51157

UniProt ID: [Q9UK33](#)

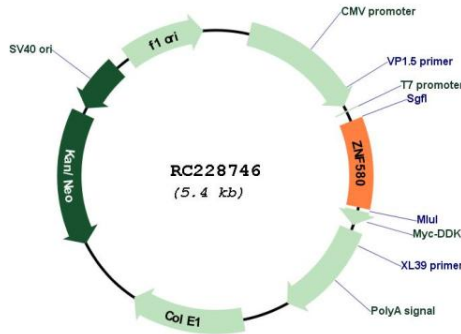
Cytogenetics: 19q13.42

Protein Families: Transcription Factors

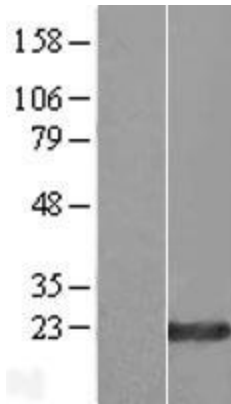
MW: 18.8 kDa

Gene Summary: Involved in the regulation of endothelial cell proliferation and migration. Mediates H(2)O(2)-induced leukocyte chemotaxis by elevating interleukin-8 production and may play a role in inflammation. May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

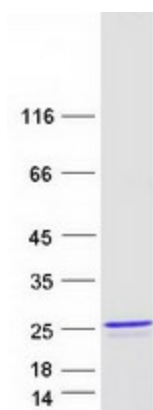
Product images:



Circular map for RC228746



Western blot validation of overexpression lysate (Cat# [LY431774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228746 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF580 protein (Cat# [TP328746]). The protein was produced from HEK293T cells transfected with ZNF580 cDNA clone (Cat# RC228746) using MegaTran 2.0 (Cat# [TT210002]).