

Product datasheet for **RC222687**

ZNF148 (NM_021964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF148 (NM_021964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF148
Synonyms:	BERF-1; BFCOL1; GDACCF; HT-BETA; pHZ-52; ZBP-89; ZFP148
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222687 representing NM_021964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACATTGACGACAACTGGAAGGATTGTTTCTTAAATGTGGCGCATAGACGAAATGCAGTCTTCCA
 GGACAATGGTTGTAATGGGTGGAGTGTCTGGCCAGTCTACTGTGTCTGGAGAGCTACAGGATTCAGTACT
 TCAAGATCGAAGTATGCCTCACCAGGAGATCCTTGCTGCAGATGAAGTGTACAAGAAAGTGAAATGAGA
 CAACAGGATATGATATCACATGATGAACTCATGGTCCATGAGGAGACAGTGAAAAATGATGAAGAGCAGA
 TGGAAACACATGAAAGACTTCTCAAGGACTACAGTATGCACTTAATGTCCCTATAAGCGTAAAGCAGGA
 AATTACTTTTACTGATGATCTGAGCACTGATGAGAGACAAAAACAAATCAGAGAGCCAGTAGACTTA
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 GTGGGTACCATAGCTTCTCAGCCTTCTGTAAACAAGCAGCTGTGGCAAGTGTATTGATGAAAGTACCA
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 ACCAAAATGAGCTCCTTTGAACAGCCCTCCGTGCTCCCTATCATGGATCAAGAGCTGGAATAGCTACTCA
 ATTTAGCACTGCCAATGGACAGGTGAACCTTCGGGGACCAGGGACAAGTGTGAATTTTCAGAATTTCCC
 TTGGTGAATGTAATGATAATAGAGCTGGGATGACATCTCACCTGATGCCACAACCTGCCAGACTTTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222687 representing NM_021964
Red=Cloning site Green=Tags(s)

MNIDDKLEGLFLKCGGIDEMQSSRTMVVMGGVSGQSTVSGELQDSVLQDRSMPHQEILAADEVLQESEMR
QQDMI SHDELMVHEETVKNDEEQMETHERLPQGLQYALNVPI SVKQEITFTDVSEQLMRDKKQIREPVDL
QKKKKRKRQSPAKIL TINEDGSLGLKTPKSHVCEHCNAAFRTNYHLQRHVFIHTGEKPFQCSQCDMRFIQ
KYLLQRHEKIHTGEKPFRCDECGMRFIQKYHMERHKRTHSGEKPYQCEYCLQYFSRTDRVLKHKRMCHEN
HDKKLNRC AIKGLLTSEEDSGFSTSPKDNSLPKKRQKTEKSSGMDKESALDKSDLKKDKNDYLP LYS
SSTKVKDEYMAEYAVEMPHSSVGGSHLEDASGEIHPPKLV LKKINSKRSLKQPLEQNQTI SPSLSTYEE S
KVSKYAFELV D KQALLDSEGNADIDQVDNLQEGPSKPVHSSTNYDDAMQFLKKRYLQAASNNSREYALN
VGTIASQPSVTQAAVASVIDESTTASILESQALNVEIKSNHDKNVIPDEVLQTL LDHYSHKANGQHEISF
SVADTEVTSSISINSSEVPEVTPSENVGSSSQASSDKANMLQEYSKFLQALDRTSQNDAYLNSPSLNF
VTDNQTLPNQPAFSSIDKQVYATMPINSFRSGMNSPLRTTPDKSHFGLIVGDSQHSFPFSGDET NHASAT
STQDFLDQVTSQKKAEAQPVHQAYQMSSFEQPF R APYHGSRAGIATQFSTANGQVNL RGP GTS AEFSEFP
LVNVNDNRAGMTSSPDATTGQTFG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6162_c03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021964

ORF Size: 2382 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_021964.3](#)

RefSeq Size: 3032 bp

RefSeq ORF: 2385 bp

Locus ID: 7707

UniProt ID: [Q9UQR1](#)

Cytogenetics: 3q21.2

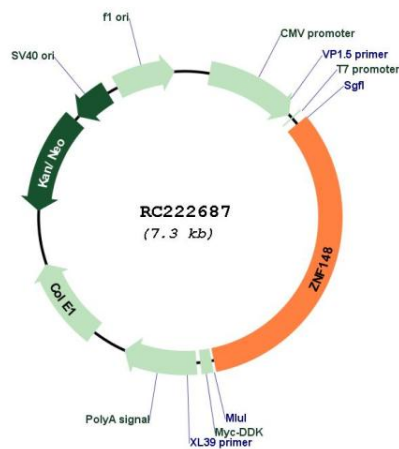
Domains: zf-C2H2

Protein Families: Transcription Factors

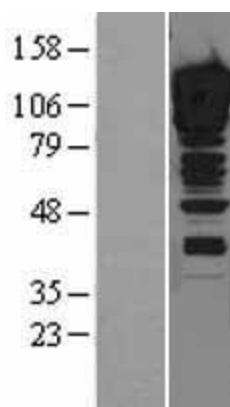
MW: 88.8 kDa

Gene Summary: The protein encoded by this gene is a member of the Kruppel family of zinc finger DNA binding proteins. The encoded protein activates transcription of the T-cell receptor and intestinal alkaline phosphatase genes but represses transcription of the ornithine decarboxylase, vimentin, gastrin, stomelysin, and enolase genes. Increased expression of this gene results in decreased patient survival rates from colorectal cancer, while mutations in this gene have been associated with global developmental delay, hypoplastic corpus callosum, and dysmorphic facies. [provided by RefSeq, Feb 2017]

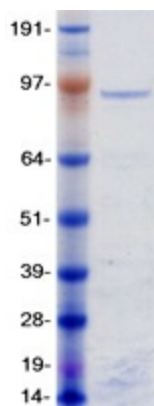
Product images:



Circular map for RC222687



Western blot validation of overexpression lysate (Cat# [LY402892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222687 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF148 protein (Cat# [TP322687]). The protein was produced from HEK293T cells transfected with ZNF148 cDNA clone (Cat# RC222687) using MegaTran 2.0 (Cat# [TT210002]).