

Product datasheet for **RC206157**

ZNF683 (NM_173574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF683 (NM_173574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF683
Synonyms:	Hobit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206157 representing NM_173574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGAAGAATCAGCTGCACAATTAGGTTGTTGTCATAGGCCATGGCCCTGGGAGGTACAGGGGGCT
 CCCTGTCCCCAGCCTGGACTTCCAGCTTCCGAGGTGACCAGGTCTTCTCAGCCTGCAGACCACTTCC
 AGACATGGTGGATGCTCATGGCCATCCTGTGCCAGCTGGCTGTGTCCCTTGCCCTGGCACCGGGCAGG
 TCTGCACTGCTGGCTGCCTACAGGACCTGGACCTGAACCTGTGCACCCACAGCCGGCACCCCTGGGCA
 CAGACCTGCAGGGCCTCCAAGAGGACGCTTGAAGCATGAAGCAGGACCAGGGCTGCAGGCCAGCTC
 CACCGATGACAAGAAATCACAGTCAAGTACCCACAGAACAAGGACAAGCTGGGAAAACAGCCAGAAAGA
 GCTGGCGAGGGGGCCCCCTGCCAGCCTTCTCCTCTCATAACAGCTCTTCCCCACCACCGCTGCAGAACA
 GAAAGAGCCCCAGCCCCCTGGCTTCTGCCCTGTCCCCTGTCAACTCCATCTCCAAGGAGCTCCCATT
 TCTCCTCCAGCCTTCTACCCTGGATACCACTTCTCCTGCCTCCACCCACCTGTTACCTATGGGGCC
 CTACCTTCTGACCAATGTCCCACCTCCTCATGCTGCCCAAGACCCCTCCTACCCACCATGGCTATGC
 CTAGCCTGCTGATGATGGTCAATGAGCTGGGGCACCCAGCGCTCGGTGGGAGACCTGTTCCCTACCC
 AGGGGCCCTTCAAGCCTCTGGCCAAGCTCTGCCTCCCAGGCCGAAATCCAGGTGCTGGAGCTGCCCA
 ACCGACTCCCCAGGCCTGGAGCGTGGTGGCATGGCATCTCCAGCAAGCGGGTCCATTGAGTTCACAGA
 CAGGCACCGCAGCCTTGCCCTTACCCGCTGAAAAGAAGAATGGCAAAATCCTGTACGAGTGCAACATATG
 TGGCAAGAGCTTTGGGACGCTCTCCAATCTCAAGTCCACCTGCGTGTGCACAGTGGAGAGCGTCCATTC
 CAGTGTGCCTTGTGCCAGAAGAGCTTCACTCAACTTGCCACCTGCAGAAGCACCACCTGGTGCACACTG
 GGGAGCGGCCCCACAAGTGTCTGGTGTGCCACAAGCGCTTCAGCAGCTCCAGTAACTCAAGACCCACT
 GCGCCTGCACTCCGGGGCCCGCCCTTCCAGTGCAGTGTCTGCCGGAGTTCAGTTCACCCAGCACATCCAC
 CTGAAGCTGCACCATCGCTGCATGCCCAACAGCCCTGTGGCCTGGTGCACCCAGCTGCCCTGGCCT
 CTCTGGCCTGCCTTGCCCAATGGCACCAGGGGGCACTAGATCTTATGGCGGTGGCATCTGAGAAACACAT
 GGGCTATGACATAGATGAGGTCAAAGTGTCTCGACATCCAGGGGAAAGCAAGAGCAGTGAAGCTGAGC
 AGTGCCGGGACTCCCCTGGTGTGGGGCAGGACCAGAACAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206157 representing NM_173574
 Red=Cloning site Green=Tags(s)

MKEESAAQLGCCHRPMLGGTGGSLSPSLDFQLFRGDQVFSACRPLPDMVDAHGPSCASWLCPPLAPGR
 SALLACLQDLNLCTPQPAPLGTDLQGLQEDALSMKHEPPGLQASSTDDKFTVKYPQNKDKLGKQPER
 AGEGAPCPAFSSHNSPPPLQNRKSPSPLAFPCPPVNSISKELPFLHAFYPGYPLLLPPPHLFYGA
 LPDQCPHLLMLPQDPSYPTMAMPSSLMMVNELGHPSARWETLLPYPGAQASGQALPSQARNPGAGAAP
 TDSPGLERGGMASPAKRVPSSQTGTAALPYPLKKNKNGKILYECNICGKSFQLSNLKVHLRVHSGERP
 QCALCQKSFTQLAHLQKHHLVHTGERPHKCSVCHKRFSSSNLKTHLRHSGARPFQCSVCRSRFTQHII
 LKLHHRHLHAPQPCGLVHTQLPLASLAQWHQALDLMAVASEKHMGYDIDEVKVSSTSQGKARAVSLS
 SAGTPLVMGQDQNN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8104_h02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_173574

ORF Size: 1512 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_173574.3](#)

RefSeq Size: 1665 bp

RefSeq ORF: 1515 bp

Locus ID: 257101

UniProt ID: [Q8IZ20](#)

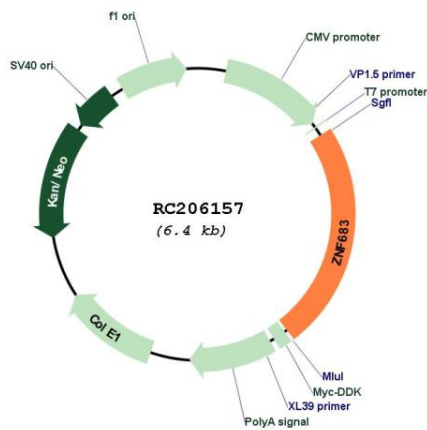
Cytogenetics: 1p36.11

Protein Families: Transcription Factors

MW: 54.3 kDa

Gene Summary: Transcription factor that mediates a transcriptional program in various innate and adaptive immune tissue-resident lymphocyte T-cell types such as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and negatively regulates gene expression of proteins that promote the egress of tissue-resident T-cell populations from non-lymphoid organs. Plays a role in the development, retention and long-term establishment of adaptive and innate tissue-resident lymphocyte T cell types in non-lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and kidney, and therefore may provide immediate immunological protection against reactivating infections or viral reinfection. Plays also a role in the differentiation of both thymic and peripheral NKT cells. Negatively regulates the accumulation of interferon-gamma (IFN-gamma) in NKT cells at steady state or after antigenic stimulation. Positively regulates granzyme B production in NKT cells after innate stimulation. Associates with the transcriptional repressor PRDM1/BLIMP1 to chromatin at gene promoter regions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206157