

Product datasheet for **SC318918**

ZNF683 (NM_001114759) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF683 (NM_001114759) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF683
Synonyms:	Hobit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318918 representing NM_001114759.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAGGAAGAATCAGCTGCACAATTAGTTGTTGTCATAGGCCCATGGCCCTGGGAGGTACAGGGGGC
TCCCTGTCCCCAGCCTGGACTTCCAGCTCTCCGAGGTGACCAGGTCTTCTCAGCTGCAGACCACTT
CCAGACATGGTGGATGCTCATGGCCCATCCTGTGCCAGCTGGCTGTGTCCCTTGCCCTGGCACCAGGC
AGGTCTGCACTGCTGGCCTGCCTACAGGACCTGGACCTGAACCTGTGCACCCACAGCCGACCCCTG
GGCACAGACCTGCAGGGCCTCCAAGAGGACGCCTTGAGCATGAAGCACGAGCCACCAGGGCTGCAGGCC
AGCTCCACCGATGACAAGAAATTCACAGTCAAGTACCCACAGAACAAGGACAAGCTGGGAAAACAGCCA
GAAAGAGCTGGCAGGGGGCCCCCTGCCAGCCTTCTCCTCTCATAACAGCTCTTCCCCACCACCGCTG
CAGAACAGAAAGAGCCCCAGCCCTTGGCTTTCTGCCCTGTCCCCTGTCAACTCCATCTCCAAGGAG
CTCCCATTTCTCTCCACGCCTTCTACCCTGGATACCACTTCTCCTGCCTCCACCCACCTGTTCAAC
TATGGGGCCCTACCTTCTGACCAATGTCCCACTCCTCATGCTGCCCCAAGACCCTCTACCCACC
ATGGCTATGCCTAGCCTGCTGATGATGGTCAATGAGCTGGGGCACCCAGCGCTCGGTGGGAGACCTG
CTTCCCTACCCAGGGGCCTTCCAAGCCTCTGGCCAAGCTCTGCCTTCCCAGGCCGAAATCCAGGTGCT
GGAGCTGCCCCAACCGACTCCCCAGGCCTGGAGCGTGGTGGCATGGCATCTCCAGCAAAGCGGTCCCA
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GGAGAGCGTCCATTCCAGTGTGCCTTGTCGAGAGCTTCACTCAACTTGCCACCTGCAGAAGCAC
CACCTGGTGCACACTGGGAGCGGCCCAAGTGCTCGGTGTGCCACAAGCGCTTCAGCAGCTCCAGT
AACCTCAAGACCCACCTGCGCCTGCACTCCGGGGCCCGGCCCTTCCAGTGCAGTGTCTGCCGAGTCGC
TTCACCCAGCACATCCACCTGAAGCTGCACCATCGGCTGCATGCCCCACAGCCCTGTGGCCTGGTGAC
ACCCAGCTGCCCTGGCCTCTCTGGCCTGCCTTGCCCAATGGCACCAGGGGGCACTAGATCTTATGGCG
GTGGCATCTGAGAAACACATGGGCTATGACATAGATGAGGTCAAAGTGTCTCGACATCCAGGGGAAA
GCAAGAGCAGTGAGCCTGAGCAGTGCCGGGACTCCCCTGGTGATGGGGCAGGACCAGAACAATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001114759

Insert Size: 1515 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001114759.2</u>
RefSeq Size:	1687 bp
RefSeq ORF:	1515 bp
Locus ID:	257101
UniProt ID:	<u>Q8IZ20</u>
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] Transcript Variant: This variant (1) encodes shorter isoform (1). Variants 1 and 2 encode the same isoform (1).