

Product datasheet for **SC112129**

B7H4 (VTCN1) (NM_024626) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B7H4 (VTCN1) (NM_024626) Human Untagged Clone
Tag:	Tag Free
Symbol:	B7H4
Synonyms:	B7-H4; B7h.5; B7H4; B7S1; B7X; PRO1291; VCTN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_024626 edited
GAATTCGGCACGAGGGGCAGCGGCAGCTCCACTCAGCCAGTACCCAGATACGCTGGGAAC
CTTCCCAGCCATGGCTTCCCTGGGGCAGATCCTCTTCTGGAGCATAATTAGCATCATCA
TTATTCTGGCTGGAGCAATTGCACTCATCATTGGCTTTGGTATTTACGGGAGACTCCA
TCACAGTCACTACTGTCGCCTCAGCTGGGAACATTGGGGAGGATGGAATCCTGAGCTGCA
CTTTTGAACCTGACATCAAATTTCTGATATCGTGATAACAATGGCTGAAGGAAGGTGTTT
TAGGCTTTGGTCCATGAGTTCAAAGAAGGCAAAGATGAGCTGTCGGAGCAGGATGAAATGT
TCAGAGGCCGGACAGCAGTGTGGCTGATCAAGTGATAGTTGGCAATGCCTCTTTGCGGC
TGAAAAACGTGCAACTCACAGATGCTGGCACCTACAAATGTTATATCATCACTTCTAAAG
GCAAGGGGAATGCTAACCTTGAGTATAAACTGGAGCCTTCAGCATGCCGGAAGTGAATG
TGGACTATAATGCCAGCTCAGAGACCTTGCAGTGTGAGGCTCCCCGATGGTTCCCCCAGC
CCACAGTGGTCTGGGCATCCCAAGTTGACCAGGGAGCCAATTCTCGGAAGTCTCCAATA
CCAGCTTTGAGCTGAACTCTGAGAATGTGACCATGAAGGTTGTGTCTGTGCTCTACAATG
TTACGATCAACAACACATACTCCTGTATGATTGAAAATGACATTGCCAAAGCAACAGGGG
ATATCAAAGTGACAGAATCGGAGATCAAAGGCGGAGTCACTACAGCTGCTAAACTCAA
AGGCTTCTCTGTGTGTCTTTCTTTCTTTGCCATCAGCTGGGCACTTCTGCCTCTCAGCC
CTTACCTGATGCTAAAATAATGTGCCTCGGCCACAAAAAGCATGCAAAGTCATTGTTAC
AACAGGGATCTACAGAATATTTACCACCAGATATGACCTAGTTTTATATTTCTGGGAG
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CCAAAAGCAGAAGGCTCCAATATGAACAAGATAAATCTATCTTCAAAGACATATTAGAAG
TTGGGAAAATAATTCATGTGAAGTAGACAAGTGTGTTAAGAGTGATAAGTAAAATGCACG
TGGAGACAAGTGCATCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACCTGGGGAGTGA
GAGGACAGGATAGTGCATGTTCTTTGTCTCTGAATTTTTAGTTATATGTGCTGTAATGTT
GCTCTGAGGAAGCCCTGGAAAGTCTATCCCAACATATCCACATCTTATATTCCACAAAT
TAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAACTCAGGGGC
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GGCTTCTCTTCCCAACTGACAAATGCCAAAGTTGAGAAAAATGATCATAATTTTAGCATA
AACAGAGCAGTCGGCGACACCGATTTTATAAATAAACTGAGCACCTTCTTTTAAACAAA
CAAATGCGGGTTTATTTCTCAGATGATGTTTATCCGTGAATGGTCCAGGGAAGGACCTTT
CACCTTGTCTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTCCTTTCCATCCTGC
GTGGACAGCTAAGACCTCAGTTTTCAATAGCATCTAGAGCAGTGGGACTCAGCTGGGGTG
ATTTCCGCCCCCATCTCCGGGGGAATGTCTGAAGACAATTTTGGTTACCTCAATGAGGGA
GTGGAGGAGGATACAGTCTACTACCAACTAGTGGATAGAGGCCAGGGATGCTGCTCAAC
CTCCTACCATGTACAGGACGCTCTCCCATTACAACCTACCAATCCGAAAGTGTCAACTGTG
TCAGGGCTAAGAAACCCTGGTTTTGAGTAGAAAAGGGCCTGGAAAGAGGGGAGCCAAACA
ATCTGTCTGCTTCTCACATTAGTCATTGGCAAATAAGCATTCTGTCTCTTTGGCTGCTG
CCTCAGCACAGAGAGCCAGAACTCTATCGGGCACCAGGATAACATCTCTCAGTGAACAGA
GTTGACAAGGCCATATGGGAAATGCCTGATGGGATTATCTTCAGCTTGTGAGCTTCTAAG
TTTCTTTCCCTTCACTTACCCTGCAAGCCAAGTTCTGTAAGAGAAATGCCTGAGTCTA
GCTCAGGTTTTTCTACTCTGAATTTAGATCTCCAGACCCTGCCTGGCCACAATTCAAATT
AAGGCAACAAACATATACCTTCCATGAAGCACACACAGACTTTTTGAAAGCAAGGACAATG
ACTGCTTGAATTGAGGCCTTGGGAATGAAGCTTTGAAGGAAAAGAATACTTTGTTTCCA
GCCCCCTTCCCACTCTTATGTGTTAACCCTGCCTTCTGGACCTTGGAGCCACGGT
GACTGTATTACATGTTGTTATAGAAAAGTATTTAGAGTTCTGATCGTTCAAGAGAATG
ATTAATATACATTTCTAAAAAATAAAAAAAAAAAAAAAAAACTCGAGC
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024626 unedited
 TTTTCGNAATATGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGCAGCGG
 CAGCTCCACTCAGCCAGTACCCAGATACGCTGGGAACCTTCCCCAGCCATGGCTTCCCTG
 GGGCAGATCCTCTTCTGGAGCATAATTAGCATCATATTATTCTGGCTGGAGCAATTGCA
 CTCATCATTGGCTTTGGTATTTTCAGGGAGACACTCCATCACAGTCACTACTGTGCGCTCA
 GCTGGGAACATTGGGGAGGATGGAATCCTGAGCTGCACCTTTTGAACCTGACATCAAACCT
 TCTGATATCGTGATAACAATGGCTGAAGGAAGGTGTTTTAGGCTTGGTCCATGAGTTCAA
 GAAGGCAAAGATGAGCTGTCGGAGCAGGATGAAATGTTTCAGAGGCCGGACAGCAGTGTTT
 GCTGATCAAGTGATAGTTGGCAATGCCTCTTTCGGCTGAAAAACGTGCAACTCACAGAT
 GCTGGCACCTACAAATGTTATATCATCACTTCTAAAGGCAAGGGGAATGCTAACCTTGAG
 TATAAACTGGAGCCTTACAGATGCCGGAAGTGAATGTGGACTATAATGCCAGCTCAGAG
 ACCTTGCCGTGTGAGGCTCCCCGATGGTCCCCCAGCCACAGTGGTCTGGGCATCCCAA
 GTTGACCAGNAGCCAACCTCTTCGGAGTCTCCATACCAGCTTTGAGCTGAACTCTGAGA
 ATGTGACCATGAAGGGTGTGTCTGTGCTTTACATGTACGATCAACACACATACTCCCGT
 ATGATTGAAAATGACATTGCCAAAGCACAGGGGATATCAAAGTGACAGATCCGGAATCA
 AAAGCCGAGCCCTACCGCTGCTAAACTCAAAGGCTTCCCTCGGGGGCTCCTTCTTTCT
 TTGACATCACTGGGCAC

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_024626 unedited
 TATGGACCCGCGCCGCAATCTAGAGCTCGAGTTTTTTTTTTTTTTTTTTAGGAAATGTA
 TATTTAATCATTCTCTTGAACGATCAGAACTCTAAAATCAGTTTTTCTATAACAACATGTA
 ATACAGTCACCGTGGCTCCAAGGTCCAGGAAGGCAGTGGTTAACACATGAAGAGTGTGGG
 AAGGGGGCTGAAACAAAGTATTCTTTTCTTCAAAGCTTCATTCTCAAGGCCTCAATT
 CAAGCAGTCATTGTCTTGTCTTCAAAGTCTGTGTGTGCTTCATGGAAGGTATATGTTT
 GTTGCCTTAATTTGAATTGTGGCCAGGCAGGGTCTGGAGATCTAAATTCAGAGTAAGAAA
 ACCTGAGCTAGAACTCAGGCATTTCTCTTACAGAACTTGGCTTGCAGGGTAGAATGAAGG
 GAAAGAACTTAGAAGCTCAACAAGCTGAAGATAATCCCATCAGGCATTTCCCATAGGCC
 TTGTCAACTCTGTTCACTGAGAGATGTTATCCTGGTGCCCGATAGAGTTCTGGCTCTCTG
 TGCTGAGGCAGCAGCCAAAGAGACAGAATGCTTATTTGCCAATGACTAATGTGAGGAAGC
 AGACAGATTTGTTGGCTCCCTCTNTTCAGGCCCTCTTCTACTCAAACCAGGGTTTCTT
 AGCCCTGACACAGTTGACACTTCGGATTNGTAGTTGTAATGGGGAGACGTCCTGTACAT
 GGTANGAGGTTGAGCAGCATCCCTGGCCTCTATCACTAGTTGGTAGTAGCACTGTATCC
 TNCTCCACTCCTCATTGAGTAACCAAAATGTCTTCAGACATTCCCCGNAGAGGGGCCGAA
 ATCACCCTGAGTCCACTGTCTANAGCTATGAAACTGAGTCTTACTGCCCCAGATGAA
 AGAGAACCTANAGCTGTGAGACTAAGCCTTAGACAGTGAAGTCTCCTGCCATCACGATA
 ACTATT

Restriction Sites:

NotI-NotI

ACCN:

NM_024626

Insert Size:

2900 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_024626.1](#), [NP_078902.1](#)

RefSeq Size: 1811 bp

RefSeq ORF: 849 bp

Locus ID: 79679

UniProt ID: [Q7Z7D3](#)

Cytogenetics: 1p13.1-p12

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) encodes the longest protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.