

Product datasheet for **RC215064**

B7H3 (CD276) (NM_001024736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B7H3 (CD276) (NM_001024736) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B7H3
Synonyms:	4lg-B7-H3; B7-H3; B7H3; B7RP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215064 representing NM_001024736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGTCGGCGGGGAGCCCTGGCATGGGTGTGCATGTGGTGCAGCCCTGGGAGCACTGTGGTTCT
 GCCTCACAGGAGCCCTGGAGGTCCAGGTCCTGAAGACCCAGTGGTGGCACTGGTGGGCACCGATGCCAC
 CCTGTGCTGCTCCTTCTCCCTGAGCCTGGCTTACGCTGGCACAGCTCAACCTCATCTGGCAGCTGACA
 GATACCAAACAGCTGGTGCACAGCTTGTGAGGGCCAGGACCAGGGCAGCGCTATGCCAACCGCACGG
 CCCTCTCCCGGACCTGCTGGCACAGGGCAACGCATCCCTGAGGCTGCAGCGCTGCGTGTGGCGGACGA
 GGGCAGCTTACCTGCTTCTGAGCATCCGGGATTTCCGGCAGCGCTGCCGTGAGCTGCAGGTGGCCGT
 CCCTACTCGAAGCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGGCCAGGGGACACGGTGACCATCA
 CGTGCTCCAGCTACCAGGCTACCCTGAGGCTGAGGTGTTCTGGCAGGATGGGCAGGCTGTGCCCTGAC
 TGGCAACGTGACCACGTGCGAGATGGCCAACGAGCAGGGCTTGTGATGTGCACAGCATCTGCGGGTG
 GTGCTGGGTGCAATGGCACCTACAGCTGCCTGGTGCGAACCCCGTGTGCAGCAGGATGCGCACAGCT
 CTGTACACCATCACACCCAGAGAAGCCCAACAGGAGCCGTGGAGGTCCAGGTCCCTGAGGACCCGGTGGT
 GGCCCTAGTGGGCACCGATGCCACCCTGCGCTGCTCCTTCTCCCCGAGCCTGGCTTACAGCTGGCACAG
 CTCAACCTCATCTGGCAGCTGACAGACACCAACAGCTGGTGCACAGTTTACCAGAGCCGGGACCAAGG
 GCAGCGCTATGCCAACCGCACGGCCCTTCCCGGACCTGCTGGCACAAGGCAATGCATCCCTGAGGCT
 GCAGCGCTGCGTGTGGCGGACGAGGGCAGCTTACCTGCTTCTGAGCATCCGGGATTTCCGGCAGCGT
 GCCGTGAGCTGCAGGTGGCCGCTCCCTACTCGAAGCCAGCATGACCCTGGAGCCCAACAAGGACCTGC
 GGCCAGGGGACACGGTGACCATACGTGCTCCAGCTACCGGGGCTACCCTGAGGCTGAGGTGTTCTGGCA
 GGATGGGCAGGGTGTGCCCTGACTGGCAACGTGACCAGCTGCGCAGATGGCCAACGAGCAGGGCTTGT
 GATGTGCACAGCGTCTGCGGGTGGTGTGGTGCGAATGGCACCTACAGCTGCCTGGTGCACAACCCCG
 TGCTGCAGCAGGATGCGCACGGCTCTGTACCATCACAGGGCAGCCTATGACATTCACCCAGAGCCCT
 GTGGGTGACCGTGGGCTGTCTGTCTGTCTCATTGCACTGCTGGTGGCCCTGGCTTTCGTGTCTGGAGA
 AAGATCAAACAGAGCTGTGAGGAGGAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTCCA
 AGACAGCCCTGCAGCCTCTGAAACTCTGACAGCAAAGAAGATGATGGACAAGAATAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215064 representing NM_001024736
 Red=Cloning site Green=Tags(s)

MLRRRGSPGMGVHGAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFPEPGFSLAQLNLIWQLT
 DTKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASLRLQRVVADEGSFTCFVSIIRDFGSAAVSLQVAA
 PYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDQGVPLTGNVTTSMANEQGLFDVHSLRV
 VLGANGTYSCLVRNPVLQQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFPEPGFSLAQ
 LNLIWQLTDTKQLVHSFTEGRDQGSAYANRTALFPDLLAQGNASLRLQRVVADEGSFTCFVSIIRDFGSA
 AVSLQVAAPYSKPSMTLEPNKDLRPGDVTITCSSYRQGYPEAEVFWQDQGVPLTGNVTTSMANEQGLF
 DVHSLRVVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPEALWTVGLSVCLIALLLVALAFVCWR
 KIKQSCEENAGAEDQDGESEKSKTALQPLKHSKEDDQGEIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001024736

ORF Size: 1602 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_001024736.2](#)
RefSeq Size: 3419 bp

RefSeq ORF: 1605 bp

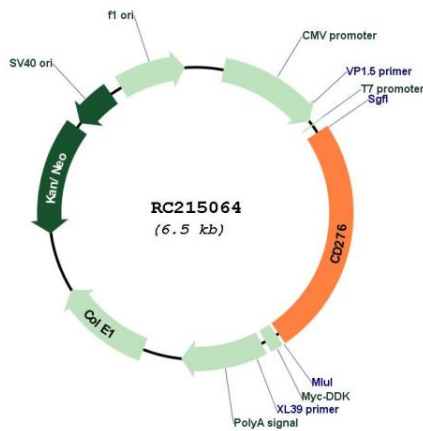
Locus ID: 80381

UniProt ID: [Q5ZPR3](#)

Cytogenetics: 15q24.1
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Cell adhesion molecules (CAMs)
MW: 57.1 kDa

Gene Summary: The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC215064