

## Product datasheet for **SC313900**

### **B7H3 (CD276) (AK075549) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B7H3 (CD276) (AK075549) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD276
Synonyms:	4lg-B7-H3; B7-H3; B7H3; B7RP-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL</a></u>
E. coli Selection:	None



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for AK075549, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCTGCGTCGGCGGGGCAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCCTGGGAGCA CTGTGGTTCTGCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGAAGACCCAGTGGTGGA CTGGTGGGCACCGATGCCACCCTGTGCTGCTCCTTCTCCCCTGAGCCTGGCTTCAGCCTG GCACAGTCAACCTCATCTGGCAGCTGACAGATACCAAACAGCTGGTGCACAGCTTTGCT GAGGGCCAGGACCAGGGCAGCGCCTATGCCAACCGCACGGCCCTTTCCCGGACCTGTG GCACAGGGCAACGCATCCCTGAGGCTGCAGCGCGTGCCTGTGGCGGACGAGGGCAGCTTC ACCTGTTCTGTGAGCATCCGGGATTTTCGGCAGCGCTGCCGTGAGCCTGCAGGTGGCCGCT CCCTACTCGAAGCCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGGCCAGGGGACATG GTGACCATCACGTGCTCCAGCTACCAGGGCTACCCTGAGGCTGAGGTGTTCTGGCAGGAT GGGCAGGGTGTGCCCTGACTGGCAACGTGACCACGTGCGAGATGGCCAACGAGCAGGGC TTGTTTGTGTGCACAGCATCCTGCGGGTGGTGTGGGTGCAAATGGCACCTACAGCTGC CTGGTGCACAACCCCGTGTGCAGCAGGATGCGCACAGCTCTGTCACCATCACACCCAG AGAAGCCCCACAGGAGCCGTGGAGGTCCAGGTCCCTGAGGACCCGGTGGTGGCCCTAGTG GGCACCATGCCACCCTGCGCTGCTCCTTCTCCCCGAGCCTGGCTTCAGCCTGGCACAG CTCAACCTCATCTGGCAGCTGACAGACACCAAACAGCTGGTGCACAGTTTCACCGAAGGC CGGGACCAGGGCAGCGCCTATGCCAACCGCACGGCCCTTTCCCGGACCTGCTGGCAAA GGCAATGCATCCCTGAGGCTGCAGCGCGTGCCTGTGGCGGACGAGGGCAGCTTCACCTGC TTCGTGAGCATCCGGGATTTTCGGCAGCGCTGCCGTGAGCCTGCAGGTGGCCGCTCCCTAC TCGAAGCCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGGCCAGGGGACACGGTGACC ATCACGTGCTCCAGTACCGGGGCTACCCTGAGGCTGAGGTGTTCTGGCAGGATGGGCAG GGTGTGCCCTGACTGGCAACGTGACCACGTGCGAGATGGCCAACGAGCAGGGCTTGTTC GATGTGCACAGCGTCTGCGGGTGGTGTGGGTGCGAATGGCACCTACAGCTGCCTGGTG CGCAACCCCGTGTGCAGCAGGATGCGCACGGCTCTGTACCATCACAGGGCAGCCTATG ACATTCACCCAGAGGCCCTGTGGGTGACCGTGGGGTGTCTGTCTGTCTATTGCACTG CTGGTGGCCCTGGCTTTCGTGTGCTGGAGAAAGATCAAACAGAGCTGTGAGGAGGAGAAT GCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTCCAAGACAGCCCTGCAGCCTCTG AAACACTCTGACAGCAAAGAAGATGATGGACAAGAAATAGCC </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	AK075549
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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:** [AK075549.1](#), [BAC11692.1](#)

**RefSeq Size:** 3320 bp

**RefSeq ORF:** 2691 bp

**Locus ID:** 80381

**Cytogenetics:** 15q24.1

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs)

**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]