

Product datasheet for **RG215291**

B7H3 (CD276) (NM_025240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B7H3 (CD276) (NM_025240) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B7H3
Synonyms:	4lg-B7-H3; B7-H3; B7H3; B7RP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215291 representing NM_025240 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGTCGGCGGGCAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCCTGGGAGCACTGTGGTTCT
GCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGAAGACCCAGTGGTGGCACTGGTGGCACCGATGCCAC
CCTGTGCTCCTTCTCCCTGAGCCTGGCTCAGCCTGGCACAGCTCAACCTCATCTGGCAGCTGACA
GATACCAACAGCTGGTGCACAGCTTTGCTGAGGGCCAGGACCAGGGCAGCGCTATGCCAACCGCACGG
CCCTCTTCCCGACCTGCTGGCACAGGGCAACGCATCCCTGAGGCTGCAGCGCTGCGTGTGGCGGACGA
GGGAGCTTACCTGCTTCGTGAGCATCCGGGATTCGGCAGCGCTGCCGTGAGCCTGCAGGTGGCCGCT
CCCTACTCGAAGCCCAGCATGACCTGGAGCCCAACAAGGACCTGCGGCCAGGGACACGGTGACCATCA
CGTGCTCCAGTACCGGGCTACCCTGAGGCTGAGGTGTTCTGGCAGGATGGGCAGGGTGTGCCCTGAC
TGGCAACGTGACCACGTGCGAGATGGCCAACGAGCAGGGCTTGTTTGATGTGCACAGCGTCTGCCGGTG
GTGCTGGGTGCGAATGGCACCTACAGCTGCCTGGTGGCAACCCCGTGTGCAGCAGGATGCGCACGGCT
CTGTCACCATCACAGGGCAGCCTATGACATTCACCCAGAGGCCCTGTGGGTGACCGTGGGGCTGTCTGT
CTGTCTCATTGCACTGCTGGTGGCCCTGGCTTTCGTGTGCTGGAGAAAGATCAAACAGAGCTGTGAGGAG
GAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTCCAAGACAGCCCTGCAGCCTCTGAAAC
ACTCTGACAGCAAAGAAGATGATGGACAAGAAATAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG215291 representing NM_025240
 Red=Cloning site Green=Tags(s)

MLRRRGSPGMGVHGAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFSPPEPGFSLAQLNLIWQLT
 DTKQLVHSFAEQDQGSAYANRTALFPDLLAQGNASRLRQVRVADEGSFTCFVSIIRDFGSAAVSLQVAA
 PYSKPSMTLEPNKDLRPGDVTITCSSYRGYPEAEVFWQDGGQVPLTGNVTTSQMANEQGLFDVHSLRV
 VLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPEALWTVTVGLSVCLIALLLVALAFVCRKIKQSCEE
 ENAGAEDQDGEGEGSKTALQPLKHSDSKEDDGGQEIA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025240

ORF Size: 948 bp

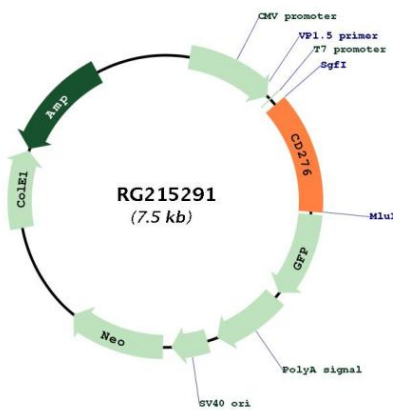
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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_025240.2, NP_079516.1</u>
RefSeq Size:	2765 bp
RefSeq ORF:	951 bp
Locus ID:	80381
UniProt ID:	<u>Q5ZPR3</u>
Cytogenetics:	15q24.1
Domains:	ig, IGc2, IG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG215291