

Product datasheet for **MG204533**

Cd276 (NM_133983) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd276 (NM_133983) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cd276
Synonyms: 6030411F23Rik; AU016588; B7h3; B7RP-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204533 representing NM_133983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTCGAGGATGGGGTGGCCCCAGTGTGGGTGTGTGTGCGCACAGCACTGGGGTGTGTGCCTCT
 GCCTCACAGGAGCTGTGGAAGTCCAGGTCTCTGAAGACCCCGTGGTGGCCCTGGTGGACACGGATGCCAC
 CCTACGCTGCTCCTTTTCCCCAGAGCCTGGCTTCAGTCTGGCACAGCTCAACCTCATCTGGCAGCTGACA
 GACACCAACAGCTGGTGCACAGCTTACGAGGGCCGGGACCAAGGCAGTGCCTACTCCAACCGCACAG
 CGCTCTTCCCTGACCTGTTGGTGAAGCAATGCGTCCTTGAGGCTGCAGCGCTCCGAGTAACCGACGA
 GGGCAGCTACACCTGCTTTGTGAGCATCCAGGACTTTGACAGCGCTGCTGTTAGCCTGCAGTGGCCGCC
 CCCTACTCGAAGCCCAGCATGACCTGGAGCCCAACAAGGACCTACGTCCAGGAAACATGGTGACCATCA
 CGTGCTCTAGCTACCAGGGCTATCCGGAGGCCGAGGTGTTCTGGAAGGATGGACAGGGAGTGGCCTTGAC
 TGGCAATGTGACCACATCCCAGATGGCCAACGAGCGGGGCTTGTTCGATGTTACAGCGTGTGAGGGTG
 GTGCTGGGTGCTAACGGCACCTACAGCTGCCTGGTACGCAACCCGGTGTTCAGCAAGATGCTCACGGCT
 CAGTCACCATCACAGGGCAGCCCCTGACATTCCTCCCTGAGGCTCTGTGGGTAAACGTGGGGCTCTCTGT
 CTGTCTTGTGGTACTACTGGTGGCCCTGGCTTTCGTGTGCTGGAGAAAGATCAAGCAGAGCTGCGAGGAG
 GAGAATGCAGGTGCCGAGGACCAGGATGGAGATGGAGAAGGATCCAAGACAGCTCTACGGCTCTGAAAC
 CCTCTGAAAACAAGAAGATGACGGACAAGAAATTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204533 representing NM_133983
Red=Cloning site Green=Tags(s)

MLRGWGGPSVGVCRVLTALGVLCCLTGAVEVQVSEDPVVALVDTDATLRCSFSPEPGFSLAQLNLIWQLT
 DTKQLVHSFTEGRDQGSAYSNRALTALFPDLLVQGNASRLRQVRVTDEGSYTCFVSIQDFDSAASLQVAA
 PYSKPSMTLEPNKDLRPGNMVTITCSSYQGYPEAEVFWKDGQGVPLTGNVTTSSQMANERGLFDVHSLRV
 VLGANGTYSCLVRNPVLQQDAHGSVTITGQPLTFPPEALWTVGLSVCLVLLVALAFVCRKIKQSCEE
 ENAGAEDQDGDGEGSKTALRPLKPSENKEDDGQEIA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133983

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:

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_133983.4](#)

RefSeq Size: 3298 bp

RefSeq ORF: 951 bp

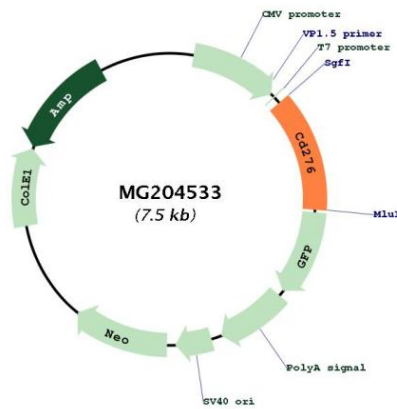
Locus ID: 102657

UniProt ID: [Q8VE98](#)

Cytogenetics: 9 B

Gene Summary: Modulates T-cell-mediated immune responses and the development of acute and chronic transplant rejection. Plays a positive regulatory role in bone formation and has a dual role in the bone-immune interface. Induces antitumor immunity as it activates both acquired and innate immunity leading to natural killer cell and CD8 T-cell dependent killing of tumor cells. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204533