

Product datasheet for **RC209458**

CD90 (THY1) (NM_006288) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD90 (THY1) (NM_006288) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD90
Synonyms: CD90; CDw90
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209458 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTGGCCATCAGCATCGCTCTCCTGCTAACAGTCTTGCAGGTCTCCCGAGGGCAGAAGGTGACCA
GCCTAACGGCCTGCCTAGTGGACCAGAGCCTTCGTCTGGACTGCCGCATGAGAATACCAGCAGTTCACC
CATCCAGTACGAGTTCAGCCTGACCCGTGAGACAAAGAAGCACGTGCTCTTGGCACTGTGGGGTGCCT
GAGCACATACCGCTCCCGAACCAACTCACCAGCAAATACAACATGAAGGTCTCTACTTATCCGCCT
TCACTAGCAAGGACGAGGGCACCTACACGTGTGCACTCCACCCTCTGGCCATTCACCACCCATCTCCTC
CCAGAAGCTCACAGTGTCTCAGAGACAACTGGTCAAGTGTGAGGGCATCAGCCTGTGGCTCAGAACACC
TCGTGGCTGCTGCTCCTCTCCCTCTCCCTCTCCAGGCCACGGATTTCATGTCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209458 protein sequence
Red=Cloning site Green=Tags(s)
MNLAIISIALLLTVLQVSRGQKVTSLTACLVDQSLRLDCRHENTSSSPIQYFSLTRETKKHVLFGTVGVP
EHTYRSRNTFTSKYNMKVLYLSAFTSKDEGTYTCALHHSGHSPPISSQNVTVLRDKLVKCEGISLLAQNT
SWLLLLLLSLSLLQATDFMSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

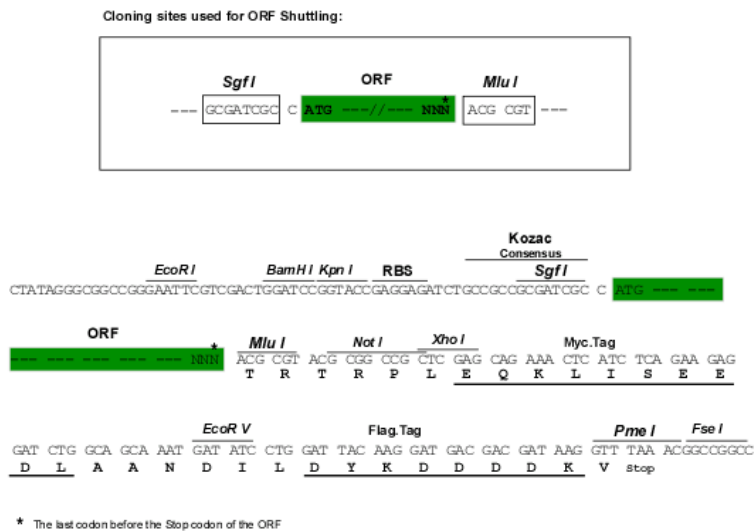
Chromatograms: https://cdn.origene.com/chromatograms/mk6125_g06.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006288

ORF Size: 483 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_006288.5](#)

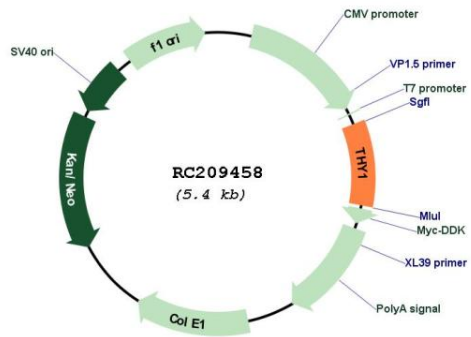
RefSeq Size: 2413 bp

RefSeq ORF: 486 bp

Locus ID: 7070

UniProt ID:	<u>P04216</u>
Cytogenetics:	11q23.3
Domains:	ig, IGv
Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Leukocyte transendothelial migration
MW:	17.9 kDa
Gene Summary:	This gene encodes a cell surface glycoprotein and member of the immunoglobulin superfamily of proteins. The encoded protein is involved in cell adhesion and cell communication in numerous cell types, but particularly in cells of the immune and nervous systems. The encoded protein is widely used as a marker for hematopoietic stem cells. This gene may function as a tumor suppressor in nasopharyngeal carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC209458