

Product datasheet for **MR219274**

Clec4d (NM_010819) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clec4d (NM_010819) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Clec4d
Synonyms: Clecsf8; mcl; Mpcl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219274 representing NM_010819
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGGAAGAATCCCAAATGAAATCAAAGGTACCCGACATCCCCAACTGATCCCTTGCCTTTCG
CTGTTGTTCCATCTCGTTCCTTAGTGCTTGTCTTATTTCAACTGTTTGGTGACTCATCTACTTTTT
ACGCTGGACGAGAGGAAGTGTGGTAAACTGTCAGACTACCACACGAGAGTAACGTGCATCCGAGAGGAG
CCACAGCCTGGAGCTACAGGAGTACTTGGACCTGCTGCTCTGTTAGCTGGAGAGCCTTCCAGTCTAACT
GTTACTTTCCTCTTAATGACAACCAGACCTGGCATGAGAGCGAGAGGAAGTCTCAGGGATGAGCAGTCA
TCTGGTGACCATCAACACCGAAGCAGAACAATTTTGTGCCAGCTTTTGGATAAACGGTTTTCTTAT
TTCTGGGACTTGTCTGATGAGAATGTGGAAGGCCAATGGCAGTGGGTGGACAAGACGCCATTTAACCCAC
ACACGGTATTCTGGGAAAAGGGGAATCCAATGACTTTATGGAAGAAGACTGTGTTGTCCTTGTTCATGT
CCATGAAAAATGGGTCTGGAATGACTTTCCTTGTCACTTTGAGGTGAGAAGGATTTGAAATTACCTGGA
ATAACATTCAATTGGAAGCCCTCGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219274 representing NM_010819
Red=Cloning site Green=Tags(s)

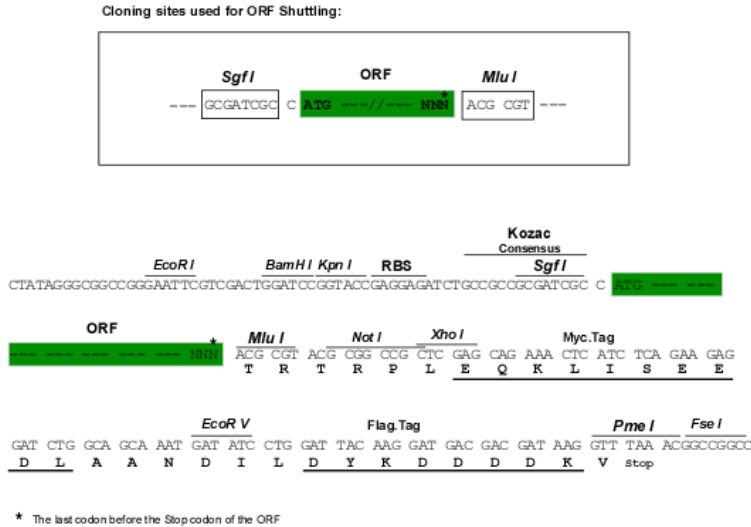
MWLEESQMKSKGTRHPQLIPCVFAVVSISFLSACFISTCLVTHHYFLRWTRGSVVKLSDYHTRVTCIREE
 PQPGATGGTWTCCPVSWRAFQSNCFPLNDNQTWHESERNCSGMSHLVTINTEAEQNFVTQLLDRFSY
 FLGLADENVEGQWQWVDKTPFNPHTVFWEKGESNDFMEEDCVVLVHVHEKWVWDFPCHFVRRICKLPG
 ITFNWKPSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010819

ORF Size: 657 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_010819.4](#), [NP_034949.3](#)

RefSeq Size: 1336 bp

RefSeq ORF: 660 bp

Locus ID: 17474

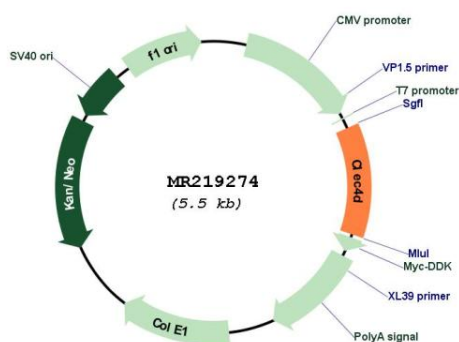
UniProt ID: [Q9Z2H6](#)

Cytogenetics: 6 58.33 cM

MW: 26.1 kDa

Gene Summary: A calcium-dependent lectin involved in innate recognition of pathogen-associated molecular patterns (PAMPs). Interacts with signaling adapter Fc receptor gamma chain/FCER1G, likely via CLEC4E, to form a functional complex in antigen presenting cells. Binding of mycobacterial trehalose 6,6'-dimycolate (TDM) to this receptor complex leads to phosphorylation of the immunoreceptor tyrosine-based activation motif (ITAM) of FCER1G, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen-specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes (PubMed:23602766). Functions as an endocytic receptor. May be involved in antigen uptake at the site of infection, either for clearance of the antigen, or for processing and further presentation to T-cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219274