

Product datasheet for **MG219274**

Clec4d (NM_010819) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec4d (NM_010819) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clec4d
Synonyms:	Clecsf8; mcl; Mpcl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219274 representing NM_010819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGGAAGAATCCCAAATGAAATCAAAGGTACCCGACATCCCCAACTGATCCCTTGCCTTTCG
CTGTTGTTCCATCTCGTTCCTTAGTGCTTGTCTTATTCAACTGTTTGGTGACTCATCTACTTTTT
ACGCTGGACGAGAGGAAGTGTGGTAAACTGTCAGACTACCACACGAGAGTAACGTGCATCCGAGAGGAG
CCACAGCCTGGAGCTACAGGAGGTAAGTGGACCTGCTGCTGCTGTTAGCTGGAGAGCCTTCCAGTCTAACT
GTTACTTTCTCTTAATGACAACCAGACCTGGCATGAGAGCGAGAGGAAGTCTCAGGGATGAGCAGTCA
TCTGGTGACCATCAACACCGAAGCAGAACAATTTTGTGACCCAGCTTTTGGATAAACGGTTTTCTTAT
TTCTGGGACTTGTCTGATGAGAATGTGGAAGGCCAATGGCAGTGGGTGGACAAGACGCCATTTAACCCAC
ACACGGTATTCTGGGAAAAGGGGAATCCAATGACTTTATGGAAGAAGACTGTGTTGTCCTTGTTCATGT
CCATGAAAAATGGGTCTGGAATGACTTTCTTGTCACTTTGAGGTGAGAAGGATTTGAAATTACCTGGA
ATAACATTCAATTGGAAGCCCTCGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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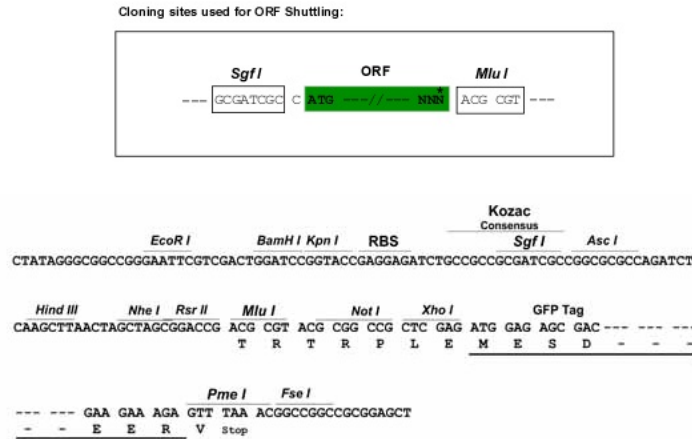
Protein Sequence: >MG219274 representing NM_010819
Red=Cloning site Green=Tags(s)

MWLEESQMKSKGTRHPQLIPCFAVVSISFLSACFISTCLVTHHYFLRWTRGSVVKLSDYHTRVTCIREE
 PQPGATGGTWTCCPVSWRAFQSNCFPLNDNQTHWESERNCSGMSHLVTINTEAEQNFVTQLLDRFSY
 FLGLADENVEGQWQVVDKTPFNPHTVFWEKGESNDFMEEDCVVLVHVHEKWWNDFPCHFVRRICKLPG
 ITFNWKPSK

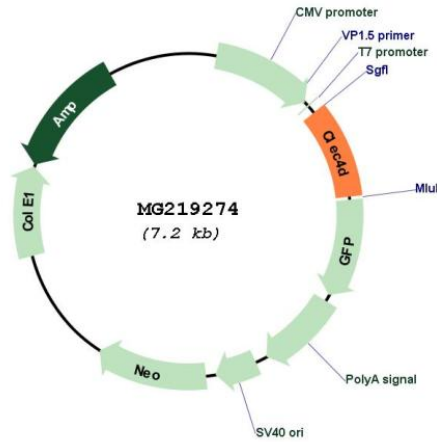
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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:	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
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]