

Product datasheet for MR202353

Clec4e (NM_019948) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec4e (NM_019948) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clec4e
Synonyms:	C86253; Clecsf9; Mincle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202353 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCAACCAATCGCCTGCATCCCACCACACAGAGAGAGGATGCTTCAAAAACCTCCAAGTGCTCT
CCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATA
TCGCAGCTCTCAAATTTCCGGGCAGAATTACAGCCACATAGAAATATTAAGGAGCTTTCCTGCTACAGT
GAGGCATCAGGTTCAAGCAAGATTGCTGTCCTTTGAACTGGAACATTATCAATCTAGTTGTTATTTTT
TCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGT
TATCGACACACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGATTTTATATTGGA
CTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAGTCCCTGAGCT
TCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAA
CTCCAGGAAGAAGCTGGAATGATATACCCTGTTTCTACAGTATGCCTTGGATTTGTGAGATGCCAGAAATA
AGTCTCTGGAC

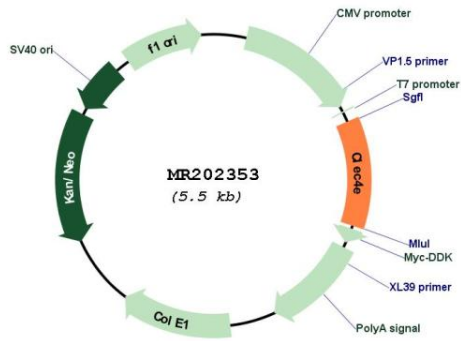
ACGCGTACGCGGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

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_019948.2 , NP_064332.1
RefSeq Size:	2519 bp
RefSeq ORF:	645 bp
Locus ID:	56619
UniProt ID:	Q9R0Q8
Cytogenetics:	6 58.35 cM
MW:	24.4 kDa
Gene Summary:	<p>A calcium-dependent lectin that acts as a pattern recognition receptor of the innate immune system. Recognizes damage-associated molecular patterns (DAMPs) of abnormal self and pathogen-associated molecular patterns (PAMPs) of bacteria and fungi (PubMed:18509109, PubMed:19171887, PubMed:23602766, PubMed:18776906). The PAMPs notably include mycobacterial trehalose 6,6'-dimycolate (TDM), a cell wall glycolipid with potent adjuvant immunomodulatory functions (PubMed:23602766). Interacts with signaling adapter Fc receptor gamma chain/FCER1G to form a functional complex in myeloid cells (PubMed:23602766, PubMed:18776906). 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). Specifically recognizes alpha-mannose residues on pathogenic fungi of the genus Malassezia and mediates macrophage activation (PubMed:19171887). Through recognition of DAMPs released upon nonhomeostatic cell death, enables immune sensing of damaged self and promotes inflammatory cell infiltration into the damaged tissue (PubMed:18776906).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR202353