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Product datasheet for RN200562

Clec4e (NM_001005897) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec4e (NM_001005897) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Clec4e
Synonyms:	Clecsf9; Mincle
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN200562 representing NM_001005897 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAATTCAACCAAATCGCCTGCATCACACCACACAGAGAGAGAATGCTTCAAAAACTCCCAAGTGCTTT CATGGACGATGGCTGGGGCCTCCATCCTGTTTCTCAGTGTCTGTTTCATCACCAGATGTGTTGTAACATA TCACAGTTTTCAAATTTATGGGCAGAAGAAGTTACAGCCACATAAAACTATTAAGGAGCTTTCCTGCTAC CTTGAAGCATCAGGTTCAGTCAAGAATTGCTGCCCTTTGAACTGGAAACATTTTCAGTCTAGTTGCTACT TTTTCTCTACAACCACCTTATCCTGGCTATCAAGTCTAAAGAATTGCTCAGACATGGGGGCTCACCTGGT GGTTATCAACACATGGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCCAGAAAGAAAGAGTTTTACATT GGACTGACAGACCAGGTTGTGGAGGGTCAGTGGCGATGGGTGGATGATACACCTTTCACAGAGTCCCTGA GCTTCTGGGATGCTGGAGAGCCCAATAACATAGTTTTTGTGGAGGACTGTGCCACCATGAGGGACTCTTC AAACCCCAGGAAGAACTGGAATGATGTATCCTGTTTCTTCAGTATGCCTTGGATTTGTGAGATGCCAGAA ATAAGTCCTTTGGACTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001005897
Insert Size:	648 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001005897.1, NP_001005897.1
RefSeq Size:	730 bp
RefSeq ORF:	648 bp
Locus ID:	450223
UniProt ID:	Q67EQ1
Cytogenetics:	4q42
Gene Summary:	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. The PAMPs notably include mycobacterial trehalose 6,6'-dimycolate (TDM), a cell wall glycolipid with potent adjuvant immunomodulatory functions (By similarity). Interacts with signaling adapter Fc receptor gamma chain/FCER1G to form a functional complex in myeloid 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. Specifically recognizes alpha-mannose residues on pathogenic fungi of the genus Malassezia and mediates macrophage activation. Through recognition of DAMPs released upon nonhomeostatic cell death, enables immune sensing of damaged self and promotes inflammatory cell infiltration into the damaged tissue (By similarity).[UniProtKB/Swiss-Prot Function]