

Product datasheet for RC221680

CLEC2D (NM_001004419) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CLEC2D (NM_001004419) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CLEC2D
Synonyms: CLAX; LLT1; OCIL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221680 representing NM_001004419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATGACAGTAACAATGTGGAGAAAGACATTACACCATCTGAATTGCCTGCAAACCCAGGTTGTCTGC
 ATTCAAAAGAGCATTCTATTAAGCTACCTAATTTGGCGCTTATTTTCTTAATCATGTTTCTGACAAT
 CATAGTGTGTGGAATGGTTGCTGCTTAAGCGCAATAAGAGCTAACTGCCATCAAGGCCATCAGTATGT
 CTTCAAGCTGCATGCCAGAAAGCTGGATTGGTTTTCAAAGAAAGTGTCTATTTTTCTGATGACACCA
 AGAACTGGACATCAAGTCAGAGTTTTGTGACTACAAGATGCTGATCTTGCTCAGTTGAAAGCTCCA
 GGAAGTGAATTTCTGTTGAGATATAAAGGCCATCTGATCACTGGATTGGGCTGAGCAGAGAACAAGGC
 CAACCATGGAAATGGATAAATGGTACTGAATGGACAAGACAGTTAGTCATGAAAGAAGATGGTGCCAACT
 TGTATGTTGCAAAGTTTTACAAGTTCTCGAATGAATCCAAGACCTGTCATGGTTTCTATCTGGGAG
 CAGGAGAGTGTGCCTATTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221680 representing NM_001004419
 Red=Cloning site Green=Tags(s)

MHDSNNVEKDITPSEL PANPGCLHSKEHSIKATLIWRLFFLIMFLTIIVCGMVAALS AIRANCHQEPSVC
 LQAACPESWIGFQRKCFYFSDDTKNWTSSQRFCDSDADLAQVESFQELNFLRLRYKGPSDHWIGLSREQG
 QPWKWIWTEWTRQLVMKEDGANLYVAKVSVQVPRMNPVPMVSYPGSRRVCLFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk8001_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004419

ORF Size: 582 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_001004419.5](#)

RefSeq Size: 1821 bp

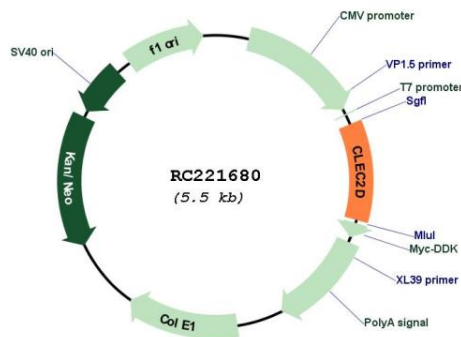
RefSeq ORF: 585 bp

Locus ID: 29121

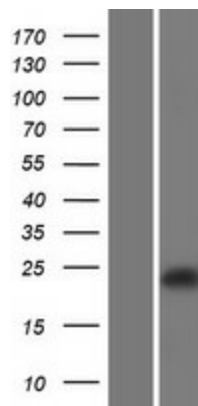
UniProt ID: [Q9UHP7](#)
Cytogenetics: 12p13.31
Protein Families: Druggable Genome, Transmembrane
MW: 22.1 kDa

Gene Summary: This gene encodes a member of the natural killer cell receptor C-type lectin family. The encoded protein inhibits osteoclast formation and contains a transmembrane domain near the N-terminus as well as the C-type lectin-like extracellular domain. Several alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Oct 2010]

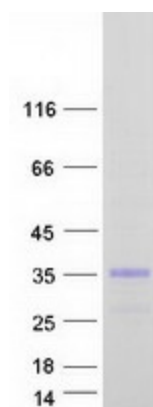
Product images:



Circular map for RC221680



Western blot validation of overexpression lysate (Cat# [LY423748]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221680 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CLEC2D protein (Cat# [TP321680]). The protein was produced from HEK293T cells transfected with CLEC2D cDNA clone (Cat# RC221680) using MegaTran 2.0 (Cat# [TT210002]).