

Product datasheet for RC209709

CLEC1 (CLEC1A) (NM_016511) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLEC1 (CLEC1A) (NM_016511) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLEC1
Synonyms:	CLEC-1; CLEC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209709 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAGGCCAAGTACAGCAGCACGAGGGACATGCTGGATGATGATGGGGACACCACCATGAGCCTGCATT
 CTCAAGCCTCTGCCACAACCTCGGCATCCAGAGCCCCGGCGCACAGAGCACAGGGCTCCCTCTTCAACGTG
 GCGACCAGTGGCCCTGACCCTGCTGACTTTGTGCTTGGTCTGCTGATAGGGCTGGCAGCCCTGGGGCTT
 TTGTTTTTTCAGTACTACCAGCTCTCCAATACTGGTCAAGACACCATTCTCAAATGGAAGAAAGATTAG
 GAAATACGTCCCAAGAGTTGCAATCTCTCAAGTCCAGAATATAAAGCTTGCAGGAAGTCTGCAGCATGT
 GGTGAAAAACTCTGTCTGAGCTGTATAACAAAGCTGGAGCACACAGGTGCAGCCCTTGTACAGAACAA
 TGGAAATGGCATGGAGACAATTGCTACCACTTCTATAAAGACAGCAAAAGTTGGGAGGACTGTAAATATT
 TCTGCCTTAGTGAAAACTCTACCATGCTGAAGATAAACAACAAGAAGACCTGGAATTTGCCGCTCTCA
 GAGCTACTCTGAGTTTTTCTACTCTTATTGGACAGGGCTTTTGCGCCCTGACAGTGGCAAGGCCTGGCTG
 TGGATGGATGGAACCCCTTCACTTCTGAAGTGTCCATATTATAATAGATGTCACCAGCCCAAGAAGCA
 GAGACTGTGTGGCCATCCTTAATGGGATGATCTTCTCAAAGGACTGCAAAGAATTGAAGCGTTGTGTCTG
 TGAGAGAAGGGCAGGAATGGTGAAGCCAGAGAGCCTCCATGTCCCCCTGAAACATTAGGCGAAGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC209709 protein sequence
Red=Cloning site Green=Tags(s)

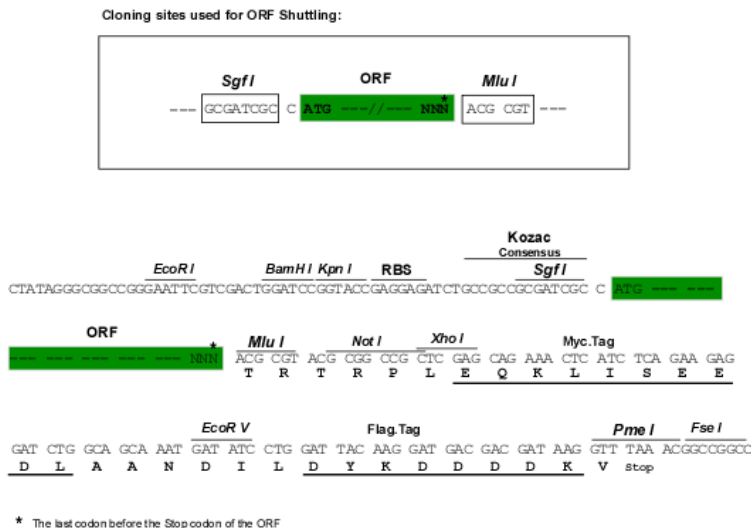
MQAKYSSTRDMLDDGDGDTMSLSHSQASATTRHPEPRTEHRAPSSTWRPVALTLLTCLVLVLLIGLAALGL
LFFQYYQLSNTGQDTSISQMEERLGNTSQELQSLQVQNIKLAGSLQHVAEKLCRELYNKAGAHRCSPCTEQ
WKWHGDCNYQFYKDSKSWEDCKYFCLSENSTMLKINKQEDLEFAASQSYSEFFYSYWTGLLRPDSGKAWL
WMDGTPETSEI FHIITDVISPRSRDCVATI NGMTESKDCKEI KRCVCERRAGMVKPFESI HVPPEI GFGD

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6364_e05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 016511

ORF Size: 840 bp

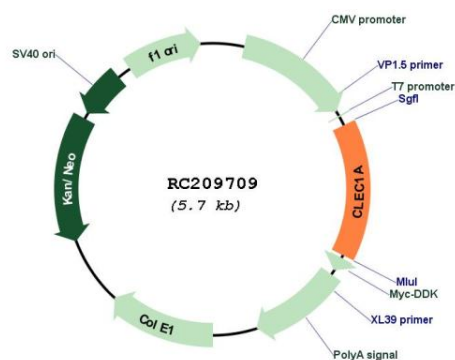
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

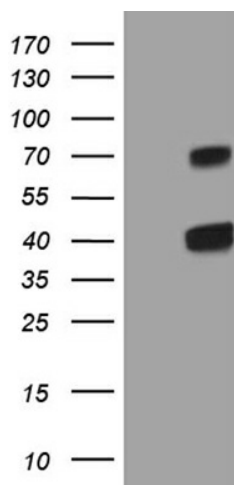
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_016511.4</u>
RefSeq Size:	2781 bp
RefSeq ORF:	843 bp
Locus ID:	51267
UniProt ID:	<u>Q8NC01</u>
Cytogenetics:	12p13.2
Domains:	CLECT
Protein Families:	Druggable Genome, Transmembrane
MW:	32 kDa
Gene Summary:	<p>This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signaling, glycoprotein turnover, and roles in inflammation and immune response. The encoded protein may play a role in regulating dendritic cell function. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p>

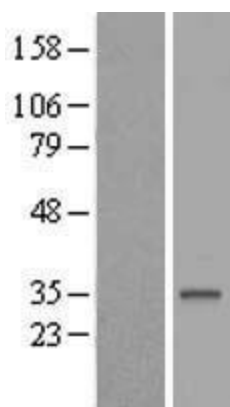
Product images:



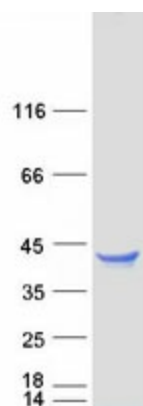
Circular map for RC209709



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CLEC1A (Cat# RC209709, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CLEC1A (Cat# [TA809213])(1:2000). Positive lysates [LY413948] (100ug) and [LC413948] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413948]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209709 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CLEC1A protein (Cat# [TP309709]). The protein was produced from HEK293T cells transfected with CLEC1A cDNA clone (Cat# RC209709) using MegaTran 2.0 (Cat# [TT210002]).