

Product datasheet for **RC209201**

COLEC12 (NM_130386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COLEC12 (NM_130386) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COLEC12
Synonyms:	CLP1; NSR2; SCARA4; SRCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209201 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAGACGACTTCGCAGAGGAGGAGGAGGTGCAATCCTTCGGTTACAAGCGGTTTGGTATTCAGGAAG
 GAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTATACATTTTGTG
 TGCTTGCTAACCAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTCACAGGT
 GGCATGGAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAAGTACCTGGAAAAATTAG
 GTGACCAAACCTGGGAAGAAAGCTATCAGCACCAACTCAGAAGCTCCACCTTCAGATCAGACATTCTAGA
 TCTCCGTCAGCAACTTCGTGAGATTACAGAAAAAACAGCAAGAACAAGGATACGCTGGAGAAGTTACAG
 GCGAGCGGGGATGCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTCTCTCA
 TCAACTGTAAACAAAACCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGT
 GCTCCAGGGCAATCTGCAGAACCAATGTATTCTATAATGTGGTCATCATGAACCTCAACAACCTGAAC
 CTGACCCAGGTGCAGCAGAGGAACCTCATCACGAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTA
 TCCAGCGAATCAAGAACGACTTTCAAAATCTGCAGCAGGTTTTTCTTCAAGCCAAGAAGGACACGGATTG
 GCTGAAGGAGAAAAGTGCAGAGCTTGACAGCCTGGCTGCCAACAACTCTGCGTTGGCCAAAGCCAACAAC
 GACACCTGGAGGATATGAACAGCCAGCTCAACTCATTACAGGTGAGTGGAGAATCACCACATCTCT
 CTAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACACAAGATGCAGAGAATAGAACAGCCAT
 CAAGTTCAACCAACTGGAGGAACGCTCCAGCTCTTTGAGACGGATATTGTGAACATCATTAGCAATATC
 AGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGGACCATTGCACAGATA
 CCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGTTGGATTCTGT
 TTCTCTCAGGATGCAACAAGATTTGATGAGGTCGAGGTTAGACACTGAAGTAGCCAATTATCAGTGATT
 ATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGTC
 CACCGGGCCCCAGGGTCCAAGAGGTGACAGAGGATCCCAGGGACCCCTGGCCAACTGGCAACAAGGG
 ACAGAAAGGAGAGAAGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGT
 GGTCCCCCGGAGAGCGTGGCGGCAAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCC
 CTGGGAAGCCCGGCCCTCAGGGCCCCAGTGGGACCCAGGCCCCCGGGCCACCAGGCAAAGGGGACT
 CCCCAGCCCTCAGGGCCCTCCTGGCTCCAGGGACTTCAGGGCACCGTTGGGAGCCTGGGGTGCCTGGA
 CCTCGGGGACTGCCAGGCTTGCCTGGGGTACCAGGCATGCCAGGCCCAAGGGCCCCCGGCCCTCCTG
 GCCCATCAGGAGCGGTGGTGGCCCTGGCCCTGCAGAAATGAGCCAACCCCGGCACCGGAGGACAATAGCTG
 CCCGCTCACTGGAAGAACTTCACAGACAAATGCTACTATTTTTTCAAGTTGAGAAAGAAATTTTTGAGGAT
 GCAAAGCTTTTCTGTGAAGACAAGTCTTACATCTTGTTTTATAAACTAGAGAGGAACGAAATGGA
 TAAAAAACAGATGGTAGGGAGAGAGCCACTGGATCGGCTCACAGACTCAGAGCGTGAAAATGAATG
 GAAGTGGCTGGATGGGACATCTCCAGACTACAAAAATTGGAAAGCTGGACAGCCGGATAACTGGGGTCA
 GGCCATGGGCCAGGAGAAGACTGTGCTGGGTGATTTATGCTGGGAGTGAACGATTTCCAATGTGAAG
 ACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACAGTACTGTCATCTGCATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209201 protein sequence
Red=Cloning site Green=Tags(s)

MKDDFAEEEEVSFGYKRFGIQEGTQCTKCKNNWALKFSIILLYILCALLTITVAILGYKVVEKMDNVTG
 GMETSRQTYDDKLTAVESDLEKLDGDTGKKAISTNSELSTFRSDILDRLQQLREITEKTSKNKDTLEKLQ
 ASGDALVDRQSQLKETLENNFLITTVNKTLQAYNGYVNLQDDTSVLQGNLQNMYSHNVVIMNLNLLN
 LTQVQQRNLITNLQRSVDDTSQAIQRIKNDFFQNLQQVFLQAKKDTDWLKEKVSLQTLAANNSALAKANN
 DTLEDMNSQLNSFTGQMENITTI SQANEQNLKDLQDLHKDAENRTAIFNQL EERFQLFETDIVNIISNI
 SYTAHHLRTLTSNLNEVRTTCTDTLTKHTDDL TSLNNTLANIRLDSVSLRMQQDL MRSRLDTEVANLSVI
 MEEMKLVDSKHGQLIKNF TILQPPGPRGPRGDRGSQPPGPTGNKGQKGEKGEPPGPAGERGPIGPA
 GPPGERGGKSGKSGQPKGSRGSPGKPGQPSGDPGPPGPPGKEGLPGPQPPGFQGLQGTGVEGPGVPG
 PRGLPGLPGVPGMPGPKGPPGPPGSPGAVVPLALQNEPTAPEDNSCP HHWNFTDKCYYSVEKEIFED
 AKLFCEDKSSHLVFINTREEQQWIKKQMVGRESHWIGL TDSERENEWKWLDGTS PDYKNWKAGQPDNWDG
 GHGPGEDCAGLIYAGQWDFQCEDVNNF ICEKDRETVLSSAL

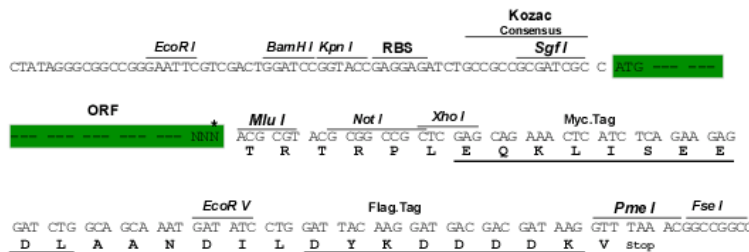
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6345_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_130386

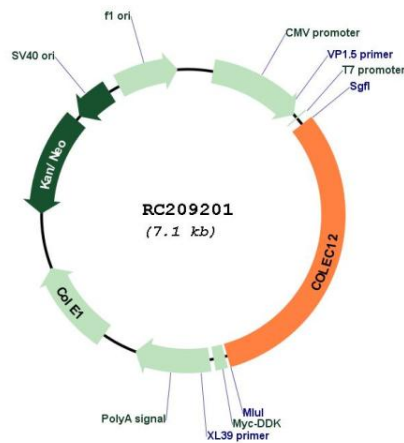
ORF Size: 2226 bp

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](#)

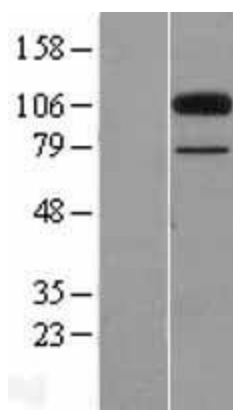
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_130386.3</u>
RefSeq Size:	3134 bp
RefSeq ORF:	2229 bp
Locus ID:	81035
UniProt ID:	<u>Q5KU26</u>
Cytogenetics:	18p11.32
Protein Families:	Transmembrane
MW:	81.6 kDa
Gene Summary:	This gene encodes a member of the C-lectin family, proteins that possess collagen-like sequences and carbohydrate recognition domains. This protein is a scavenger receptor that displays several functions associated with host defense. It can bind to carbohydrate antigens on microorganisms, facilitating their recognition and removal. It also mediates the recognition, internalization, and degradation of oxidatively modified low density lipoprotein by vascular endothelial cells. [provided by RefSeq, May 2018]

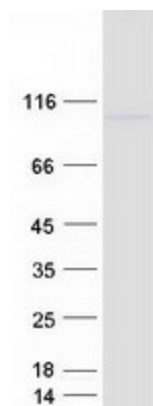
Product images:



Circular map for RC209201



Western blot validation of overexpression lysate (Cat# [LY408979]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COLEC12 protein (Cat# [TP309201]). The protein was produced from HEK293T cells transfected with COLEC12 cDNA clone (Cat# RC209201) using MegaTran 2.0 (Cat# [TT210002]).