

## Product datasheet for **RC233632**

### CLEC4G (NM\_001244856) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CLEC4G (NM\_001244856) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CLEC4G  
**Synonyms:** DTTR431; LP2698; LSECtin; UNQ431  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233632 representing NM\_001244856  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACACCACCAGGTACAGGCCCTGGGGACGCTGGGTGCACTGGAGCAGGAGACCCCTCTTCTGGCCC  
TGGCTGTCCTGGTCACCACAGTCCTTTGGGCTGTGATTCTGAGTATCCTATTGTCCAAGGCCTCCACGGA  
GCGCGCGCGCTGCTTGACGGCCACGACCTGCTGAGGACAAACGCCTCGAAGCAGACGGCGCGCTGGGT  
GCCCTGAAGGAGGAGGTGCGAGACTGCCACAGCTGCTGCTCGGGACGCAGGCGCAGCTGCAGACCACGC  
GCGCGGAGCTTGGGGAGGCGCAGGCGAAGCTGATGGAGCAGGAGAGCGCCCTGCGGAACTGCGTGAGCG  
CGTGACCCAGGGCTTGGCTGAAGCCGGCAGGGCCGTGAGGACGTCCGCACTGAGCTGTTCCGGGCGCTG  
GAGGCCGTGAGGCTCCAGAACAACCTCTGCGAGCCGTGCCACAGTCTGGTGTCTTTCGAGGGCTCT  
GCTACTTTTTCTGTGCCAAAGACGACGTGGGCGGCGCAGGATCACTGCGCAGATGCCAGCGCGCA  
CCTGGTGATCGTTGGGGCCTGGATGAGCAGGGCTTCTCACTCGGAACACGCGTGGCCGTGGTTACTGG  
CTGGGCTGAGGGCTGTGCGCCATCTGGGCAAGGTTACAGGCTACCAAGTGGTGGACGGAGTCTCTCTCA  
GCTTCAGCCACTGGAACCAGGGAGGCCAATGACGCTTGGGGCGCGAGAAGTGTGTCATGATGCTGCA  
CACGGGCTGTGGAACGACGCACCGTGTGACAGCGAGAAGGACGGCTGGATCTGTGAGAAAAGGCACAAC  
TGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC233632 representing NM\_001244856  
Red=Cloning site Green=Tags(s)

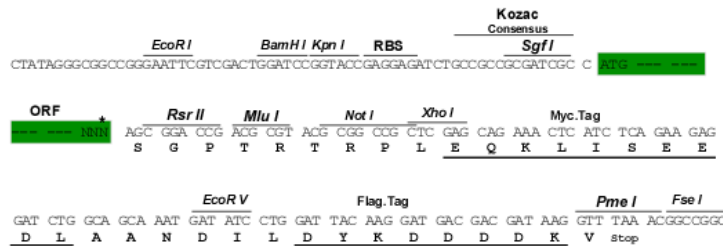
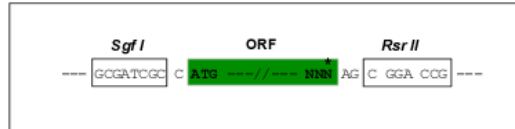
MDTTRYRPWGRVWHSRRPLFLALAVLVTTLVAVILSILLKASTERAALLDGHDLRTNASKQTAAALG  
 ALKEEVGDCHSCSGTQAQLQTTAELGEAQAKLMEQESALRELREVRTQGLAEAGRGREDVRELFRAL  
 EAVRLQNNSCPEPCPTSWLSFEGSCYFFSVPKTTWAAAQDHCADASAHLVIVGGLDEQGFLLRNTRGRGYW  
 LGLRAVRHLGKVQGYQWVDGVLSFSHWNQGEPNDAWGRENVMMLHTGLWNDAPCDSEKDGWICEKRHN  
 C

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001244856

**ORF Size:** 843 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\\_001244856.1](#), [NP\\_001231785.1](#)

**RefSeq Size:** 1341 bp

**RefSeq ORF:** 846 bp

**Locus ID:** 339390

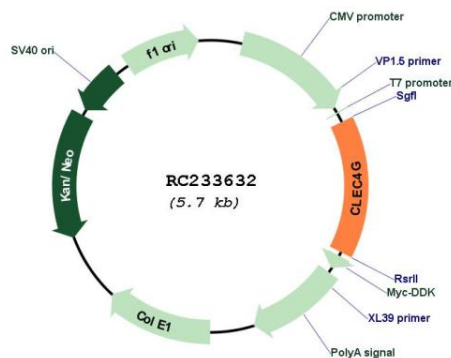
**Cytogenetics:** 19p13.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 31.9 kDa

**Gene Summary:** This gene encodes a glycan-binding receptor and member of the C-type lectin family which plays a role in the immune response. C-type lectin receptors are pattern recognition receptors located on immune cells that play a role in the recognition and uptake of both self and non-self glycoproteins as well as mediating cell adhesion, glycoprotein clearance, and cell signaling functions. This gene's protein binds complex-type N-glycans of the viral envelope proteins of Ebola virus, West Nile filovirus, and SARS coronavirus, but not HIV or hepatitis C virus. In mouse, this protein has been shown to recognize activated T-cells and to negatively regulate T-cell receptor-mediated signalling. It also acts as a novel, liver-specific regulator of NK cell-mediated immunity in mouse. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2020]

### Product images:



Circular map for RC233632