

Product datasheet for **RG232084**

COLEC11 (NM_001255989) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COLEC11 (NM_001255989) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: COLEC11
Synonyms: 3MC2; CL-11; CL-K1-I; CL-K1-II; CL-K1-IIa; CL-K1-IIb; CLK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232084 representing NM_001255989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTGGGTGCCTCCGAGTCCCTACGGTTGTCTTCCCTGCGCCCTGCCAGGTGAGAAAGGAGATTCCG
GTGACATAGGACCCCTGGTCTAATGGAGAACCAGGCCCTCCCATGTGAGTGCAGCCAGCTGCGCAAGGC
CATCGGGGAGATGGACAACCAGGTCTCTCAGCTGACCAGCGAGCTCAAGTTCATCAAGAATGCTGTCGCC
GGTGTGCGCGAGACGGAGAGCAAGATCTACCTGCTGGTGAAGGAGGAGAAGCGCTACGCGGACGCCCAGC
TGTCTGCCAGGGCCGCGGGGACGCTGAGCATGCCAAGGACGAGGCTGCCAATGGCCTGATGGCCGC
ATACCTGGCGCAAGCCGGCTGGCCGTGTCTTCATCGGCATCAACGACCTGGAGAAGGAGGGCGCCTTC
GTGACTCTGACCACTCCCCATGCGGACCTTCAACAAGTGGCGCAGCGGTGAGCCCAACAATGCCTACG
ACGAGGAGGACTGCGTGGAGATGGTGGCCTCGGGCGGCTGGAACGACGTGGCCTGCCACACCACCATGTA
CTTCATGTGTGAGTTTGACAAGGAGAACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232084 representing NM_001255989
Red=Cloning site Green=Tags(s)

MWWVPPSPYGCLPCALPGEKGDSDIGPPGNGEPGLPCECSQLRKAIGEMDNQVSQLTSELKFIKNAVA
GVRETESKIYLLVKEEKRYADAQLSCQGRGTL SMPKDEAANGLMAAYLAQAGLARVFIGINDLEKEGAF
VYSDHSPMRTFNKWRSGEPNNAYDEEDCVEMVASGGWNDVACHTTMYFMCEFDKENM

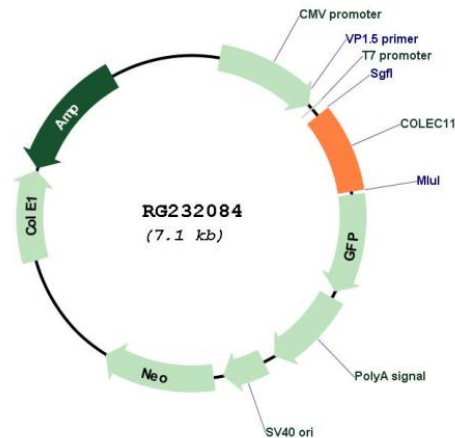
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001255989

ORF Size: 591 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_001255989.1](#), [NP_001242918.1](#)

RefSeq Size: 1260 bp

RefSeq ORF: 594 bp

Locus ID: 78989

UniProt ID: [Q9BWP8](#)

Cytogenetics: 2p25.3

Gene Summary: This gene encodes a member of the collectin family of C-type lectins that possess collagen-like sequences and carbohydrate recognition domains. Collectins are secreted proteins that play important roles in the innate immune system by binding to carbohydrate antigens on microorganisms, facilitating their recognition and removal. The encoded protein binds to multiple sugars with a preference for fucose and mannose. Mutations in this gene are a cause of 3MC syndrome-2. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]