

## Product datasheet for **RG202700**

### CLEC2B (NM\_005127) Human Tagged ORF Clone

#### Product data:

|                           |                                |
|---------------------------|--------------------------------|
| Product Type:             | Expression Plasmids            |
| Tag:                      | TurboGFP                       |
| Symbol:                   | CLEC2B                         |
| Synonyms:                 | AICL; CLECSF2; HP10085; IFNRG1 |
| Mammalian Cell Selection: | Neomycin                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)        |
| E. coli Selection:        | Ampicillin (100 ug/mL)         |

**ORF Nucleotide Sequence:** >RG202700 representing NM\_005127  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATGACCAACATAAAAAAGTGTGTTTATAATTGTTGGTGTGTTTAATAACAACTAATATTACTCTGA  
TAGTTAAACTAACTCGAGATTCTCAGAGTTTATGCCCTATGATTGGATTGGTTTCCAAAACAAATGCTA  
TTATTTCTCTAAAGAAGAAGGAGATTGGAATTCAGTAAATACAACGTCCACTCAACATGCCGACCTA  
ACTATAATTGACAACATAGAAGAAACGAATTTCTAGGCGGTATAAATGCAGTTCTGATCACTGGATTG  
GACTGAAGATGGCAAAAAATCGAACAGGACAATGGGTAGATGGAGCTACATTTACCAAATCGTTTGCCAT  
GAGAGGGAGTGAAGGATGTGCCTACCTCAGCGATGATGGTGCAGCAACAGCTAGATGTTACACCGAAAGA  
AAATGGATTGTCAGGAAAAGAATACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202700 representing NM\_005127  
Red=Cloning site Green=Tags(s)

MMTKHKKCFIIVGLITTNIIITLIVKLTRDSQSLCPYDWIGFQNKCYFYSKEEGDWNSSKYNCSQHADL  
TIIDNIEETNFLRRYKCSSDHWIGLMAKNRTQWVDGATFTKSFGRGSEGCAYLSDDGAATARCATER  
KWICRKRIH

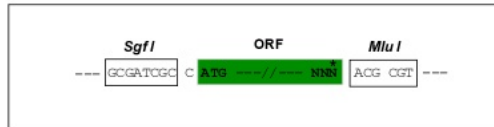
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGTACTAGTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---  
 T R T R P L E M E S D - - -  
 --- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT  
 - - E E R V Stop

**ACCN:** NM\_005127

**ORF Size:** 447 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_005127.2](#), [NP\\_005118.2](#)

RefSeq Size: 2052 bp

RefSeq ORF: 450 bp

Locus ID: 9976

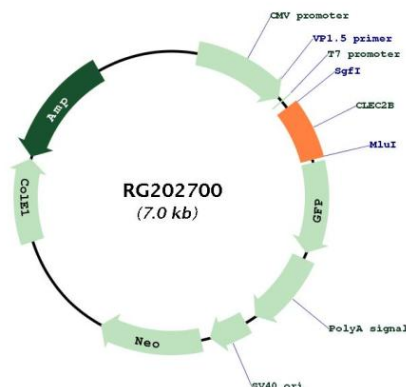
UniProt ID: [Q92478](#)

Cytogenetics: 12p13.31

Protein Families: Druggable Genome, Transmembrane

**Gene Summary:** 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 signalling, glycoprotein turnover, and roles in inflammation and immune response. The encoded type 2 transmembrane protein may function as a cell activation antigen. An alternative splice variant has been described but its full-length sequence has not been determined. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG202700