

## Product datasheet for **RG203141**

### IP10 (CXCL10) (NM\_001565) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IP10 (CXCL10) (NM\_001565) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IP10  
**Synonyms:** C7; crg-2; gIP-10; IFI10; INP10; IP-10; mob-1; SCYB10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203141 representing NM\_001565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATCAAACGGCCATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTC  
 TCTCTAGAACTGTACGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAA  
 ACTTGAAATTATCCTGCAAGCCAATTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAGAAGGGT  
 GAGAAGAGATGTCTGAATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAAGGT  
 CTAAGAGATCTCTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

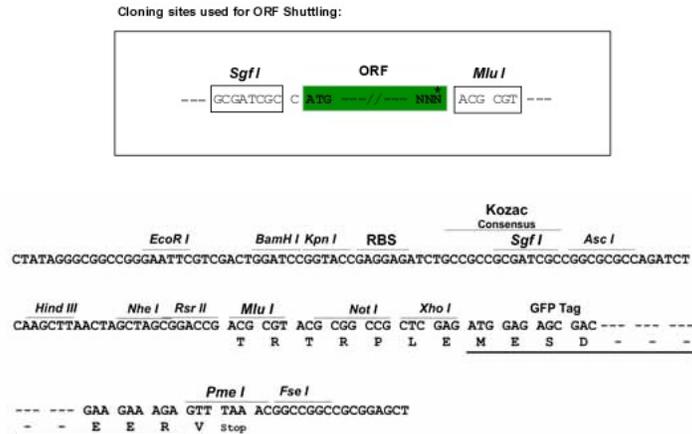
**Protein Sequence:** >RG203141 representing NM\_001565  
 Red=Cloning site Green=Tags(s)  
 MNQTAILICCLIFLTLSGIQGVPLSRTVRCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKG  
 EKRLNPESKAIKNLLKAVSKERSKRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001565

**ORF Size:** 294 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.

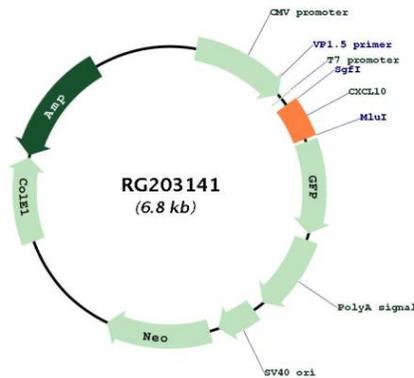
**RefSeq:** [NM\\_001565.4](#)

**RefSeq Size:** 1172 bp

**RefSeq ORF:** 297 bp

**Locus ID:** 3627  
**UniProt ID:** [P02778](#)  
**Cytogenetics:** 4q21.1  
**Domains:** IL8  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway  
**Gene Summary:** This antimicrobial gene encodes a chemokine of the CXC subfamily and ligand for the receptor CXCR3. Binding of this protein to CXCR3 results in pleiotropic effects, including stimulation of monocytes, natural killer and T-cell migration, and modulation of adhesion molecule expression. This gene may also be a key regulator of the 'cytokine storm' immune response to SARS-CoV-2 infection. [provided by RefSeq, Sep 2020]

### Product images:



Circular map for RG203141