

Product datasheet for **RG204691**

Macrophage Inflammatory Protein 3 alpha (CCL20) (NM_004591) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Macrophage Inflammatory Protein 3 alpha (CCL20) (NM_004591) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CCL20
Synonyms: CKb4; Exodus; LARC; MIP-3-alpha; MIP-3a; MIP3A; SCYA20; ST38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204691 representing NM_004591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCTGTACCAAGAGTTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGCGAAT
 CAGAAGCAAGCACTTTGACTGCTGTCTTGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGG
 CTTACACGGCAGCTGGCCAATGAAGGCTGTGACATCAATGCTATCATCTTTCACACAAAGAAAAAGTTG
 TCTGTGTGCGCAAATCCAAAACAGACTGGGTGAAATATATTGTGCGTCTCCTCAGTAAAAAAGTCAAGA
 ACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204691 representing NM_004591
 Red=Cloning site Green=Tags(s)
 MCCTKSLLLAALMSVLLHLHLCGESEASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKL
 SVCANPKQTWVKYIVRLLSKVKNM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

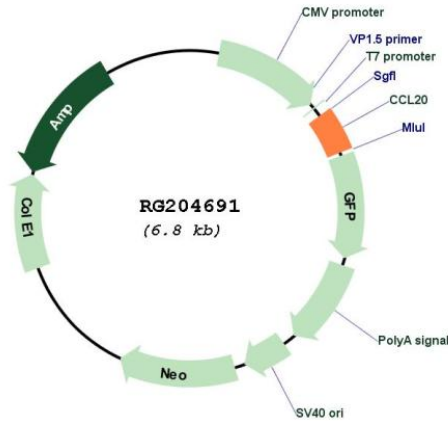


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Cloning Scheme:



Plasmid Map:



ACCN: NM_004591

ORF Size: 288 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_004591.1</u> , <u>NP_004582.1</u>
RefSeq Size:	799 bp
RefSeq ORF:	291 bp
Locus ID:	6364
UniProt ID:	<u>P78556</u>
Cytogenetics:	2q36.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
Gene Summary:	This antimicrobial gene belongs to the subfamily of small cytokine CC genes. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The protein encoded by this gene displays chemotactic activity for lymphocytes and can repress proliferation of myeloid progenitors. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]