

## Product datasheet for **RC236109**

### **RANTES (CCL5) (NM\_001278736) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RANTES (CCL5) (NM\_001278736) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CCL5  
**Synonyms:** D17S136E; eoCP; RANTES; SCYA5; SIS-delta; SISd; TCP228  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236109 representing NM\_001278736  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGGTCTCCGCGGCAGCCCTCGCTGTCATCCTCATTGCTACTGCCCTCTGCGCTCCTGCATCTGCCT  
CCCCATATTCCTCGGACACCACCCCTGCTGCTTTGCCTACATTGCCCGCCACTGCCCGTGCCACAT  
CAAGGAGTATTTCTACACCAGTGCAAGTCTCCAACCCAGCAGTCGTCACAGGTCAAGGATGCCAAAG  
AGAGAGGGACAGCAAGTCTGGCAGGATTTCTGTATGACTCCCGGCTGAACAAGGCAAGCTTTGTCAAC  
CGAAAGAACCAGCAAGTGTGTGCCAACCAGAGAAGAAATGGGTTCCGGGAGTACATCAACTCTTTGGAGA  
TGAGCTAGGATGGAGAGTCTTGAACCTGAACCTACACAAATTTGCCTGTTTCTGCTTGTCTTGTCTCTA  
GCTTGGGAGGCTTCCCCTCACTATCCTACCCACCCGCTCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236109 representing NM\_001278736  
**Red=Cloning site Green=Tags(s)**

MKVSAAALAVIL IATALCAPASASPYSSDTPCCFAYIARPLPRAHIKEYFYTSKGKSNPAVVHRSRMPK  
REGQVWQDFLYDSRLNKGKLCHPKEPPSVCQPREEMGSGVHQLFGDELGWRVLEPELTQICLFLALVL  
AWEASPHYTPPAP

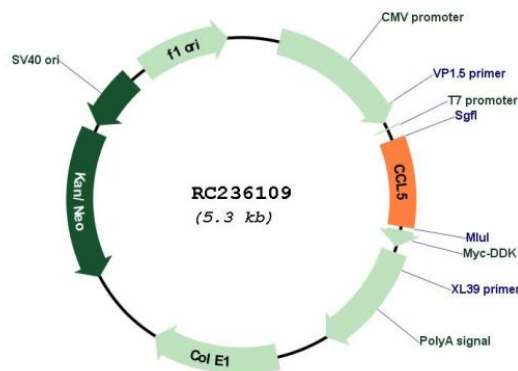
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001278736

**ORF Size:** 462 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001278736.2</a></u>
<b>RefSeq Size:</b>	1319 bp
<b>RefSeq ORF:</b>	465 bp
<b>Locus ID:</b>	6352
<b>Cytogenetics:</b>	17q12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway
<b>MW:</b>	17.5 kDa
<b>Gene Summary:</b>	This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]