

## **Product datasheet for RG236109**

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# 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: TurboGFP

Symbol: CCL5

Synonyms: D17S136E; eoCP; RANTES; SCYA5; SIS-delta; SISd; TCP228

Mammalian Cell Neo

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG236109 representing NM\_001278736.

Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

GTCCTAGCTTGGGAGGCTTCCCCTCACTATCCTACCCCACCCGCTCCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG236109

Blue=ORF Red=Cloning site Green=Tag(s)

MKVSAAALAVILIATALCAPASASPYSSDTTPCCFAYIARPLPRAHIKEYFYTSGKCSNPAVVHRSRMP KREGQQVWQDFLYDSRLNKGKLCHPKEPPSVCQPREEMGSGVHQLFGDELGWRVLEPELTQICLFLLAL

**VLAWEASPHYPTPPAP** 

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

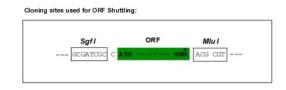
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

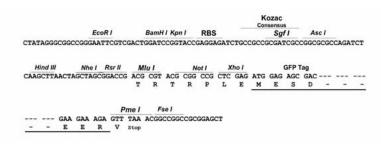
Restriction Sites: Sgfl-Mlul



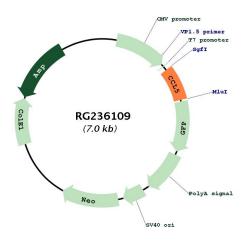


### **Cloning Scheme:**





### 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.



## RANTES (CCL5) (NM\_001278736) Human Tagged ORF Clone - RG236109

**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).

**RefSeq:** <u>NM 001278736.2</u>

RefSeq Size: 1319 bp
RefSeq ORF: 465 bp
Locus ID: 6352
Cytogenetics: 17q12

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: 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

**MW:** 17.5 kDa

**Gene Summary:** 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]