

Product datasheet for **RG236109**

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236109 representing NM_001278736.
Blue=ORF **Red**=Cloning site **Green**=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGGTCTCCGCGGCAGCCCTCGCTGTATCCTCATTGCTACTGCCCTCTGCGCTCCTGCATCTGCC
TCCCCATATTCTCGGACACCACACCCTGCTGCTTTGCCTACATTGCCCGCCACTGCCCGTGCCAC
ATCAAGGAGTATTTCTACACCAGTGGCAAGTGTCCAACCCAGCAGTCGTCACAGGTCAAGGATGCCA
AAGAGAGAGGGACAGCAAGTCTGGCAGGATTTCTGTATGACTCCCGGTGAACAAGGGCAAGCTTTGT
CACCCGAAAGAACCGCCAAGTGTGTGCCAACCCAGAGAAGAAATGGGTTCCGGGAGTACATCAACTCTT
GGAGATGAGCTAGGATGGAGAGTCTTGAACCTGAACCTACACAATTTGCCTGTTTCTGCTTGCTCTT
GTCTAGCTTGGGAGGCTTCCCCTCACTATCCTACCCACCCGCTCCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236109
Blue=ORF **Red**=Cloning site **Green**=Tag(s)

```
MKVSAAALAVILIALCAPASAPYSSDTPCCFAYIARPLPRAHIKEYFYTSKGCSNPVHRSRMP
KREGQQVWQDFLYDSRLNKGKLCHEPPSVCQPREEMGSGVHQLFGDELGWRVLEPELTQICLFLLL
VLAWEASPHYTPPAP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



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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:	NM_001278736.2
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:	<p>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]</p>