

## Product datasheet for **SC104452**

### **RANTES (CCL5) (AK094877) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RANTES (CCL5) (AK094877) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANTES
Synonyms:	4930578C19Rik; bA435K1.1; DIA1R; EPQL1862; PRO3743
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK094877, the custom clone sequence may differ by one or more nucleotides

ATGTTTCGGCGTCTTTAGCAACGGGCATCTGTTTCATCCGGGATGCCAGTGCAGTGGGCGTCATCGACAAGC  
AGGAAGGCAGCCAAGAAGCCAACAGGGCAGGAGAGAATAAAGACATTTTTAGCTGCCTGGTTTCCGGCTG  
CCAGGCCAGCTGCCCTCCTGCGAAAGCATCTCTGAGAAGCAGAGCCTGGTGCTGGTGTGTCAGAAGTTG  
CTGCCTCGACTTCTCCAGGGGAGGTTCCCTCCCCAGTGCAAGACGACATAGACTCCATCCTTGTTCAGT  
GTGGGGACAGCATCCGCCAGACCCAGAAGTCCTTGGGGCCGCCAGCCAGCTGAAAGACATCTTGAGGCC  
CCTGAGAACGTGTGACTCCAGATTTGCCTATCGTTACCCAGATTGCAATATAACGATAAGTTCTGA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK094877 unedited</p> <pre> NNTTTCATATCCCCCGCCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT ATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTCAGCG GCCGCGAATTCGGCAGGAGGAACGATTTGAAGTATTTCTTCTACTTCACCCACATTGATG CAGGCATGTTCCGGCTCTTTAACACGGGCATCTGTTTCATCCGGGATGCCAGTGCAGTGG GCGTCATCGACAAGCAGGAAGGCAGCCAAGAAGCCAACAGGGCAGGAGAGAATAAAGACA TTTTTAGCTGCCTGGTTTCCGGCTGCCAGGCCAGCTGCCCTCCTGCGAAAGCATCTCTG AGAAGCAGAGCCTGGTGTCTGGTGTGTGTCAGAAAGTTGCTGCCTCGACTTCTCCAGGGGAGGT TCCCTCCCCAGTGCAAGACGACATAGACTCCATCCTTGTTCAGTGTGGGACAGCATCC GCCAGACCCAGAAGTCCTTGGGGCCGCCAGCTGAAAGACATCTTGAGGCCCTGA GAACGTGTGACTCCAGATTTGCCTATCGTTACCCAGAGTGCAATATAACGATAAGTTCT GAAGGGCTGGTGTCTAGCTGGCCTTGGGGACAACACGCTTGGCTCTCATTCTCCAGTC GGGTTGCTGCAAGGTAGAAAGAAGCAGCTCTTTTTTAAAGATGAGAAGAAAGGCACACTC ATTTCTTAGGGACTGAGACGGGGNACGTTGTGAGATACCCGTTGGCTGTCTCTGCTGGC TTTGGGACGTCTGGCAAGCCCCGCGTGGGCATCAAGACCCTGGGGTTGGTGGACGCTC ACTCATGGTCTTGAGAGCTCAGTTTCTCTATTCTNCACAACTCTCCTTTGGGGGTGGA AAGAAGACACAGATGTAGCCCC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK094877
<b>Insert Size:</b>	4200 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">AK094877.1</a> , <a href="#">BAC04447.1</a>
<b>RefSeq Size:</b>	2354 bp
<b>RefSeq ORF:</b>	417 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

**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]