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Product datasheet for SC102926

RANTES (CCL5) (AK092450) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANTES (CCL5) (AK092450) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANTES
Synonyms:	BDP; MSUDMV; PP2Ckappa; PP2Cm; PTMP; UG0882E07
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for AK092450, the custom clone sequence may differ by one or more nucleotides

AAGTACTTTATAGATTCAGAAGTAAATGCTGTCCTGTTCTCCATCAGCTGTTCGTTTGTTACAGATTTTG
TATTTCTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCACACAGGCTGGAGTACAGTGGTGCGGTCT
CGGCTCCCTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGAC
TACAGGCGCGTGCCACCACCCCTGGCTAATTTTTGTATTTTTTTTTCTTTTTTTTTTGAGAAGGAGTCTC
TCTCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAAGCTGCGCCTCCTGGGTTCAC
GCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGAATTACAGGCGTCCGCCACCGTGCCCGGCTAATTTT
TTTGTATTTTTAGTAGAGATGGGGTTTTGCCATATTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTG
ATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCAGATCTTTG
TATGTCTTAAGTGTTTCAAAGTTATAAGCATTTTTCTGGGGGGATGTCCATTTTGGAGGGATCCATTTTG
ATCCTTTGTACTCTATAATGTGAACTTTCCCCTGTTCCAACACTTAAAAGAGAATTATTAGCACATAATC
TAAAAGATGGAATTTTTTTTTTTTCTTGAGACAGAGTCTCGCTCTGTCGCTAGGCTGGAGTGCAGTGGCG
CGATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTTAAGCGATTCTCCTGCCTCAGCCTCTGGAGTAGC
TGGGACTACTCGTGCATGCCACCACGCCCGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCAT
GTTGGCCAGGATGGTCTCGATCTCTTGACCTCGTGATCCACCTGCCTCGGCCTCCCAAATTGCTGGGATT
ACAGCACTGTGCCCTCCTAGGAAATTATTTTTTAAGTGAAATTTTATTTTTATTTTTTTTAGGATTTTGG
TAGAGAATGAGTAGGCCTACTCATCAATATCAAACAGGACATTTAGTTTCTTTCCTTAGAACAGACATAA
ATTTAATTTCATGGTAATATGATAATAAGAAAATGCTTCTATTTTTCTTTAGCACCTCCATGGTTCTCAT
ATACCCATGTCTGTAAAAAGTGACATGAGAATTTTGTTGGGTTACATTTTATTGTATTTATTAGATTCGC
TTATATAGATGACTTAGGCAGAAATAAAGTCATGTCTTTAGAAGGTGAACAAGCCAACTTGTGATGGCCT
GCCTTTTGCTTTTGGCAGTTGGGATGAGAACAATTGACTCTCCCATTGGTTGTTAGATAGTTGAAATGGT
GCGTTGGTGGTCATACTTAGTGTTCTAGGCTGTGAAATCATGGAGTTCTTCCACTTCCAAGAATGACTCA
TTTGCTGTTGGATTCTAGTACAGAATTTAGCAGCCTGATGTGTCCCCAAACTGATTTAATTTCTACTGAA
GTGCCCTTGTGTACATTTGTTTTGTAATTTACCAAAGTACTACCTGAGTGTATAATGACTCCTGCAGTGA
GTTAATGTAATTGCTGCTTTGACCATTGTTTTAAATCTGTGTACTAGAGTAACTGTGAGCAGAATGAAAT
CACATTATCTCAGTGTTCAAAATATCATTCTAATAAAGTACATGCATTAAACAATTTT

5' Read Nucleotide Sequence:

>OriGene 5' read for AK092450 unedited
GATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTATAGGCATAG
TGTAAATTACATTAATGTAGTAAAACATCAATTGTGGTTCGGTTTGTCTTTCATTTATGT
GTAGTATAGAAATCACCTTTCTAATATGTGTTGCCAAACTATTTGCCACCATCTATTTGG
TGAAATATTCATTGTCATTGTGATTTTCCACAAGTATAAGTTCTTAAGTACTTTATAGAT
TCAGAAGTAAATGCTGTCCTGTTCTCCATCAGCTGTTCGTTTGTTACAGATTTTGTATTT
CTTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCACACAGGCTGGAGTACAGTGGT
GCGGTCTCGGCTCCCTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTTCTGCCTCGGCC
TCCTGAGTAGCTGGGACTGCAGGCGCGTGCCACCACCCCTGGCTAATTTTTGGATTTTTT
TTTCTTTTTTTTTTTTGAGAAGGAGTCTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCAC
GATCTCGGCTCACTGCAAGCTGCGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCTC
CCGAGTAGCTGGAATTACAGGCGTCCGCCACCGTGCCCGGCTAATTTTTTTGTATTTTTA
GTAGAGATGGGGTTTTGCCATATTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGAT
CCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCA
GATCTTTGTATGTCTTAAGTGNTTCAAAGTTATAAGCATNTTTTCTGGGGGGGATGTCCA
TTNNNTGGAGGGATCCCATTNTGATCCCTTTGNNACTCTATATGNGAAACTTTNCCCTGT
TNNCACACTCANNAGAGAAT

3' Read Nucleotide Sequence:

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>OriGene 3' read for AK092450 unedited
TAAATCTATGNNACCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTGTTTA
ATGCATGTACTTTATTAGAATGATATTTTGAACACTGGAGAAATGTGATTTCATTCTGCT
CACAGTTACTCTAGTACACAGATTTAAAACAATGGTCAAAGCAGCAATTACATTAACTCA
CTGCAGGAGTCATTATACACTCAGGTAGTACTTTGGTAAATTACAAAACAAATGTACACA
AGGGCACTTCAGTAGAAATTAAATCAGTTTGGGGACACATCAGGCTGCTAAATTCTGTAC
TAGAATCCAACAGCAAATGAGTCATTCTTGGAAGTGGAAGAACTCCATGATTTCACAGCC
TAGAACACTAAGTATGACCACCAACGCACCATTTCAACTATCTAACAACCAATGGGAGAG
TCAATTGTTCTCATCCCAACTGCCAAAAGCAAAAGGCAGGCCATCACAAGTTGGCTTGTT
CACCTTCTAAAGACATGACTTTATTTCTGCCTAAGTCATCTATATAAGCGAATCTAATAA
ATACAATAAAATGTAACCCAACAAAATTCTCATGTCACTTTTTACAGACATGGGTATATG
AGAACCATGGAGGTGCTAAAGAAAAAAGAAGCATTTTCTTATTATCATATTACCATGAAA
TTAAATTTATGTCTGGTCTAAGGAAAGAAACTAAATGTCCTGTTTGATATTGATGAGTAA
GCCTACTCATTCTCTACCAAAATCTAAAAAAAAATAAAAATAAAATTTCACTTTAAAAAAT
AATTTNCCTAGAAGGCACAGTGCTGTTATTCCCACAATTTTGGGAGGCGAGGCAAGTGGG
TCCACCCAGTCAAGAGATCGGGAACCTTCCTGCCCAATATGTGGAAACCCTGTCCTTCTA
AAAATCCAAAAATTACCCGGCGGGTTGGCATGCCCCAATAT
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Restriction Sites: NotI-NotI

ACCN: AK092450

Insert Size: 2000 bp

OTI Disclaimer: 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).

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:
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: AK092450.1

RefSeq Size: 1738 bp

RefSeq ORF: 1738 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

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]