

Product datasheet for **SC116668**

RP105 (CD180) (NM_005582) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | RP105 (CD180) (NM_005582) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RP105 |
| Synonyms: | LY64; Ly78; RP105 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005582, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTTTGACGTCAGCTGCTTCTTTGGGTGGTGCTGTTTTCTGCCGGCTGTAAAGTCATCACCTCCT
GGGATCAGATGTGCATTGAGAAAGAAGCCAACAAAACATATAACTGTGAAAAATTTAGGTCTCAGTGAAT
CCCTGACACTCTACCAAACACAACAGAATTTTTGGAATTCAGCTTAATTTTTTGCCTACAATTCACAAT
AGAACCTTCAGCAGACTCATGAATCTTACCTTTTTGGATTAACTAGGTGCCAGATTAACGGATACATG
AAGACACTTTTTCAAAGCCATCATCAATTAAGCACACTTGTGTTAACTGGAAATCCCTGATATTCATGGC
AGAAACATCGCTTAATGGGCCAAGTCACTGAAGCATCTTTCTTAATCCAAACGGGAATATCCAATCTC
GAGTTTATCCAGTGCACAATCTGGAAAACCTGGAAAAGCTTGATCTTGGAAAGCAACCATATTTCTCCA
TTAAGTTCCCAAAGACTTCCAGCACGGAATCTGAAAGTACTGGATTTTCAGAATAATGCTATACACTA
CATCTCTAGAGAAGACATGAGGTCTCTGGAGCAGGCCATCAACCTAAGCCTGAACCTCAATGGCAATAAT
GTTAAAGGTATTGAGCTTGGGGCTTTTGATTCAACGATCTTCAAAGTTTGAACCTTGGAGGAACCCAA
ATTTGTCTGTTATATTCAATGGTCTGCAGAACTCTACTACTCAGTCTCTCTGGCTGGGAACATTTGAGGA
CATTGATGACGAAGATATTAGTTGAGCCATGCTCAAGGGACTCTGTGAAATGTCTGTTGAGAGCCTCAAC
CTGCAGGAACACCGCTTCTCTGACATCTCATCCACCACATTTTCAGTGCTTCAACCAACTCCAAGAATTGG
ATCTGACAGCAACTCACTTGAAGGGTTACCCTCTGGGATGAAGGGTCTGAACTTGTCTCAAGAAATAGT
TCTCAGTGAAATCATTTCGATCAATTTGTGTCAAATCAGTGTGCCAATTTCCCTCCCTTACACACCTC
TACATCAGAGGCAACGTGAAGAACTTACCTTGGTGTGGCTGCTTGGAGAACTAGGAAACCTTCAGA
CACTTGATTTAAGCCATAATGACATAGAGGCTTCTGACTGCTGCAGTCTGCAACTCAAAAACCTGTCCCA
CTTGCAAACCTTAAACCTGAGCCACAATGAGCCTCTTGGTCTCCAGAGTCAGGCATTCAAAGAATGTCT
CAGCTAGAACTCCTCGATTTGGCATTACCCGCTTACACATTAATGCTCCACAAAGTCCCTTCCAAAAC
TCCATTTCTTCCAGGTTCTGAATCTCACTTACTGCTTCTTGGATACCAGCAATCAGCATCTTCTAGCAGG
CCTACCAGTTCTCCGGCATCTCAACTTAAAAGGGAATCACTTTCAAGATGGGACTATCACGAAGACCAAC
CTACTTACAGACCTGGGAGCTTGGAGTTCTGATTTTGTCTTGTGGTCTCCTCTCTATAGACCAGC
AAGCATTCCACAGCTTGGGAAAAATGAGCCATGTAGACTTAAGCCACAACAGCCTGACATGCGACAGCAT
TGATTCTCTTAGCCATCTTAAGGGAATCTACCTCAATCTGGCTGCCAACAGCATTAAACATCATCTCACCC
CGTCTCCTCCCTATCTTGTCCCAGCAGAGCACCATTAATTTAAGTCATAACCCCTGGACTGCCTTGTCT
CGAATATTCATTTCTAACATGGTACAAGAAAACCTGCACAACTTGAAGGCTCGGAGGAGACCACGTG
TGCAAACCCGCCATCTTAAGGGGAGTTAAGCTATCTGATGTCAAGCTTCTCTGTGGGATTACAGCCATA
GGCATTTCTTTCTCATAGTATTTCTATTATTGTTGGCTATTCTGCTATTTTTTGCAGTTAAATACCTTC
TCAGGTGGAATACCAACACATTTAG
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_005582 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGTAGGTAACCCCAAGCAATC CTAGCCTGTGATGGCGTTTGACGTGAGCTGCTTCTTTGGGTGGTGTGTTTTCTGCCGG CTGTAAAGTCATCACCTCCTGGGATCAGATGTGCATTGAGAAAGAAGCCAACAAAACATA TAACTGTGAAATTTAGGTCTCAGTGAAATCCCTGACACTCTACCAACACAACAGAATT TTTGGAAATTCAGCTTAAATTTTTGGCTACAATCACAATAGAACCTTCAGCAGACTCAT GAATCTTACCTTTTTGGATTTAACTAGGTGCCAGATTAAGTGGATACATGAAGACACTTT TCAAAGCCATCATCAATTAAGCACACTTGTGTTAACTGGAAATCCCTGATATTCATGGC AGAAACATCGCTTAATGGGCCAAGTCACTGAAGCATCTTTTCTAATCCAAACGGGAAT ATCCAATCTCGAGTTTATTCCAGTGCACAATCTGGAAAAGCTTGGAAAGCTTGTATCTTGG AAGCAACCATATTTCTCCATTAAGTTCCCCAAAGACTTCCCAGCACGGAATCTGAAAGT ACTGGATTTTCAGAATAATGCTATACACTACATCTCTAGAGAGACATGANGTCTCTGGAG CAGGCCATCAACCTAAGCCTGAACCTCATGGCAATATGTTAAAGGTATTGAGCTTGGGGC TTTTGATTCAACGGTCTNCCAAAGTTGAACTNTGNAGGACTNCCAATTNGTCTGTATA TTCAATGGTCTGCAGAATCTACTACTCAGTCTCTCTGGCTGGGAACATTTGAGGACATT GATGACAAGNAATATANNNTCANCATGCTCANGGACTCTGTGAAATGTCTGTNAGAGCC TCAACTGCAGAACACGCTTTCTGACATTATCACACATTTAGTGCTTCCCCTCAGAAATNT GATCGACGCACTACTGAAGGNTACCTGGAGTGAAGGCTGACTGCACAAATATNTCAGGA TACTTCAACATGGCAACAGCGCN</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_005582 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAATTTCTCAGCCTTTTCTTTA AATTTATTATGCTTTTCTTTTCTTTTTTCAATTAATAAAGGATTGAGACTTTGTCCCA AGTAAGTTTCTCAATGGCTACATTACTGAAAACCCAGACCCAAGCACAAATGCTGTAGTG GGGGTGGGTAGTGGGCTGGCTCAGCTCTGACAAATTGTGGGGCTGATGATCTCCTTTC AGGGGCGGGTGTGTGGTCTGGGAGGGATGTCGGTGAGTAAAAGGGGAATGGCCTCCCT GTGGGAGACTCCGGGGCCGGCAGTCCCTGCCAGTCCCTCCCTCTGCTTCTCCACTCT TCCACATGCGGAAAGGGCTCTGTGCCTCTCACAGCAGCATCTGACCCTCTGGACTGAGTC ATTCGGTGTACTTGCCTAAAAGGTTCTTTAGCTCTGGGACTCACAGGAGTAAGAAGTCA GAAAAGCACAGTGAAGTCCCTGCCAGTCCAGGAAGCAATCTGAAAAGTCTGGTCTGGT ACCAGCAGATGACAGTCTTTCACTTAGAGCAATTTTGCTAAGCACACTATTTGCTTTTC TCTGAAAACCTTCAGCACTAAATGTTGGTATTTCCACCTGAGAAGGTATTTAACTGCA AAAAATAGCAGAAATAGCCAACAATAATAGAAATACTATGAGAAAGAAAATGCCTATGGCT GTAATCCACAGGAAAGCTTGCATCAGATAGCTTAACTCCCCTTAGAGATGGCGGGGTT TGCACACGTGGTCTCCTCCGAGCCTTCAAGTTGTGCAGTTTTCTTTGTACATGTTAAGAA ATGATATTCGGCAGTGCCGTCCAGGGTTATGACTAAAAAAGGGGCTCTGGTGGCACAC AAAGGAAGAAACAGGGTGAAGATGTTATGCTGTTGCACCACATTGAGGAAATCCCTTAA AAGCCTACAAATCAAGCCTGCCCTGTACGCTGTG</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005582 |
| Insert Size: | 2670 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: [NM_005582.1](#), [NP_005573.1](#)

RefSeq Size: 2725 bp

RefSeq ORF: 1986 bp

Locus ID: 4064

UniProt ID: [Q99467](#)

Cytogenetics: 5q12.3

Domains: LRRCT, LRR, LRR_TYP

Protein Families: Druggable Genome, Transmembrane

Gene Summary: CD180 is a cell surface molecule consisting of extracellular leucine-rich repeats (LRR) and a short cytoplasmic tail. The extracellular LRR is associated with a molecule called MD-1 and form the cell surface receptor complex, RP105/MD-1. It belongs to the family of pathogen receptors, Toll-like receptors (TLR). RP105/MD1, by working in concert with TLR4, controls B cell recognition and signaling of lipopolysaccharide (LPS), a membrane constituent of Gram-negative bacteria. [provided by RefSeq, Jul 2008]