

Product datasheet for **RG215954**

RP105 (CD180) (NM_005582) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RP105 (CD180) (NM_005582) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RP105
Synonyms:	LY64; Ly78; RP105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215954 representing NM_005582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTTGACGTGAGTCTCTTTTGGGTGGTCTGTTTTCTGCCGGCTGTAAGTCATCACCTCCT
 GGGATCAGATGTGCATTGAGAAAGAAGCCAACAAACATATAACTGTGAAAATTTAGGTCTCAGTGAAT
 CCCTGACACTCTACCAAACACAAGAATTTTTGGAATTCAGCTTTAATTTTTGCTACAATTCACAA
 AGAACCTTCAGCAGACTCATGAATCTTACCTTTTTGGATTAACTAGGTGCCAGATTAAGTGGATACATG
 AAGACTTTTTCAAAGCCATCATCAATTAAGCACACTTGTGTTAACTGGAAATCCCTGATTCATGGC
 AGAAACATCGCTAATGGGCCAAGTCACTGAAGCATCTTTCTAATCCAAACGGGAATATCCAATCTC
 GAGTTTATCCAGTGCACAATCTGGAAAAGCTTGGAAAGCTGTATCTTGGAAAGCAACCATATTTCTCCA
 TTAAGTTCCCAAAGACTTCCAGCACGGAATCTGAAAGTACTGGATTTTCAGAATAATGCTATACACTA
 CATCTCTAGAGAAGACATGAGGTCTCTGGAGCAGGCCATCAACCTAAGCCTGAACCTCAATGGCAATAAT
 GTTAAAGGTATTGAGCTTGGGGCTTTGATTCAACGGTCTTCAAAGTTTGAACCTTGGAGGAACCTCAA
 ATTTGCTGTATATTCAATGGTCTGCAGAACTCTACTACTCAGTCTCTCTGGCTGGGAACATTTGAGGA
 CATTGATGACGAAGATATTAGTTCAGCCATGCTCAAGGGACTCTGTGAAATGTCTGTTGAGAGCCTCAAC
 CTGCAGGAACACCGCTTCTCTGACATCTCATCCACCACATTTCAAGTCTTCAACCAACTCCAAGAATTGG
 ATCTGACAGCAACTCACTGAAAGGGTTACCCTCTGGGATGAAGGGTCTGAACCTGTCTCAAGAAATAGT
 TCTCAGTGAAATCATTCGATCAATTTGTGCAATCAGTGTGCCAATTTCCCTCCCTTACACACCTC
 TACATCAGAGGCAACGTGAAGAACTTCACTTGGTGTGGCTGCTTGGAGAACTAGGAAACCTTCAGA
 CACTTGATTTAAGCCATAATGACATAGAGGCTTCTGACTGCTGCAGTCTGCAACTCAAAACCTGTCCCA
 CTTGCAAACCTTAAACCTGAGCCACAATGAGCCTCTTGGTCTCCAGAGTCAGGCATTCAAAGAATGTCT
 CAGCTAGAACTCCTCGATTTGGCATTACCCGCTTACACATTAATGCTCCACAAAGTCCCTTCCAAAACC
 TCCATTTCTCAGGTTCTGAATCTCACTACTGCTTCTTGTACCAGCAATCAGCATCTTCTAGCAGG
 CCTACCAGTTCTCCGGCATCTCAACTTAAAGGGGAATCACTTTCAAGATGGGACTATCACGAAGACCAAC
 CTACTTCAGACTGTGGGCAGCTTGGAGTTCTGATTTTGTCTCTTGTGGTCTCCTCTATAGACCAGC
 AAGCATTCCACAGCTTGGGAAAAATGAGCCATGTAGACTTAAGCCACAACAGCCTGACATGCGACAGCAT
 TGATTCTCTTAGCCATCTTAAGGAATCTACCTCAATCTGGCTGCCAACAGCATTAAACATCATCTCACCC
 CGTCTCCTCCCTATCTTGTCCCAGCAGAGCACCATTAATTTAAGTCATAACCCCTGGACTGCATTGCT
 CGAATATTCATTTCTAACATGGTACAAAGAAAACCTGCACAACTTGAAGGCTCGGAGGAGACCAGGTG
 TGCAAACCGCCATCTTAAGGGGAGTTAAGCTATCTGATGTCAAGCTTCTCTGTGGGATTACAGCCATA
 GGCATTTTCTTCTCATAGTATTTCTATTATTGTTGGCTATTCTGCTATTTTTGCGAGTTAAATACCTTC
 TCAGGTGGAAATACCAACACATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005582

ORF Size: 1983 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.

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: 2697 bp

RefSeq ORF: 1986 bp

Locus ID: 4064

UniProt ID: [Q99467](#)

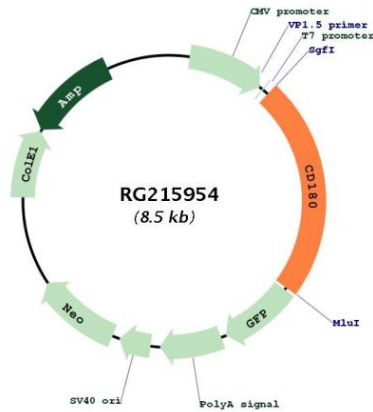
Cytogenetics: 5q12.3

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]

Product images:



Circular map for RG215954