

Product datasheet for **RG206507**

CD162 (SELPLG) (NM_003006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD162 (SELPLG) (NM_003006) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD162
Synonyms:	CD162; CLA; PSGL-1; PSGL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206507 representing NM_003006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTGCAACTCCTCTGTTGCTGATCCTACTGGGCCCTGGCAACAGCTTGCAGCTGTGGGACACCT
GGGAGATGAAGCCGAGAAAGCCTTGGTCCCCTGCTTGGCCGGGACCGGAGACAGGCCACCGAATATGA
GTACCTAGATTATGATTTCTGCCAGAAACGGAGCCTCCAGAAATGCTGAGGAACAGCACTGACACCACT
CCTCTGACTGGGCTGGAACCCCTGAGTCTACCACTGTGGAGCCTGCTGCAAGGCGTTCTACTGGCCTGG
ATGAGGAGGGGAGTACAGAGCTGACCACGGAGCTGGCCAACATGGGGAACCTGTCCACGGATTCAGC
AGCTATGGAGATACAGACCACTCAACCAGCAGCCACGGAGGCACAGACCACTCCACTGGCAGCCACAGAG
GCACAGACAACCTCGACTGACGGCCACGGAGGCACAGACCACTCCACTGGCAGCCACAGAGGCACAGACCA
CTCCACCAGCAGCCACGGAAGCAGACCACTCAACCCACAGGCCTGGAGGCACAGACCACTGCACCAGC
AGCCATGGAGGCACAGACCACTGCACCAGCAGCCATGGAAGCACAGACCACTCCACCAGCAGCCATGGAG
GCACAGACCACTCAAACCACAGCCATGGAGGCACAGACCACTGCACCAGAAGCCACGGAGGCACAGACCA
CTCAACCCACAGCCACGGAGGCACAGACCACTCCACTGGCAGCCATGGAGGCCCTGTCCACAGAACCAG
TGCCACAGAGGCCCTGTCCATGGAACCTACTACCAAAAGAGGTCTGTTTCATACCCCTTTCTGTGTCTCT
GTTACTACAAGGGCATTCCCATGGCAGCCAGCAATTTGTCCGTCACCTACCCAGTGGGGGCCAGAC
ACATCTCTGTGAAGCAGTGCCTGCTGGCCATCCTAATCTTGGCGCTGGTGGCCACTATCTTCTTCGTGTG
CACTGTGGTGCTGGCGGTCGCTCTCCCGCAAGGGCCACATGTACCCGCTGCGTAATTACTCCCCACC
GAGATGGTCTGCATCTCATCCCTGTTGCTGATGGGGGTGAGGGGCCCTCTGCCACAGCCAAATGGGGCC
TGTCCAAGGCCAAGAGCCCGGCCCTGACGCCAGAGCCAGGGAGGACCGTGGGGGATGACCTCACCT
GCACAGCTTCTCCCT

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206507 representing NM_003006
 Red=Cloning site Green=Tags(s)

```
MPLQLLLLLILLGPGNSLQLWDTWADEAEKALGPLLARDRRQATEYEYLDYDFLPETEPPEMLRNSTDTT
PLTGPPTPESTTVEPAARRSTGLDAGGAVTELTTELANMGNLSTDSAAMEIOTTQPAATEAQTTPLAATE
AQTTTLTATEAQTTPLAATEAQTTPPAATEAQTTPLEAQTTPAAMEAQTTPAAMEAQTTPPAAME
AQTTPAAMEAQTTPAATEAQTTPAATEAQTTPAATEAQTTPAAMEAQTTPAAMEAQTTPAAMEAQTTPAAME
VTHKGIIPMAASNLVSNYPVGPADHISVKQCLLAILLALVATIFFVCTVVLAVRLSRKGHMYPVRNYSPT
EMVCISLLPDGGEGPSATANGGLSKAKSPGLTPEPREDREGDDLTLHSFLP
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003006

ORF Size: 1206 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_003006.3](#), [NP_002997.1](#)

RefSeq Size: 2550 bp

RefSeq ORF: 1239 bp

Locus ID: 6404

UniProt ID: [Q14242](#)

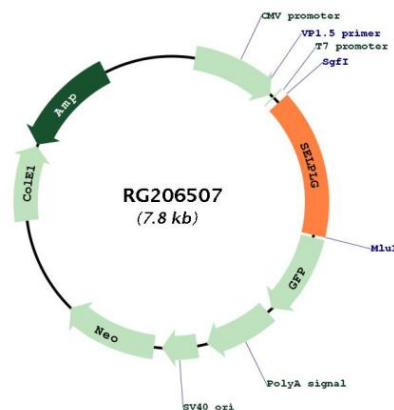
Cytogenetics: 12q24.11

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: This gene encodes a glycoprotein that functions as a high affinity counter-receptor for the cell adhesion molecules P-, E- and L- selectin expressed on myeloid cells and stimulated T lymphocytes. As such, this protein plays a critical role in leukocyte trafficking during inflammation by tethering of leukocytes to activated platelets or endothelia expressing selectins. This protein requires two post-translational modifications, tyrosine sulfation and the addition of the sialyl Lewis x tetrasaccharide (sLex) to its O-linked glycans, for its high-affinity binding activity. Aberrant expression of this gene and polymorphisms in this gene are associated with defects in the innate and adaptive immune response. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011]

Product images:



Circular map for RG206507