

Product datasheet for **RC209822**

CD62P (SELP) (NM_003005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD62P (SELP) (NM_003005) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD62P
Synonyms:	CD62; CD62P; GMP140; GRMP; LECAM3; PADGEM; PSEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209822 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAC**TGCCAAATAGCCATCTTGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTCC**
 TTTGCTTCAGTGCCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACTTATCATTACAG
 CACAAAAGCATACTCATGGAATATTTCCCGTAAATACTGCCAGAATCGCTACACAGACTTAGTGGCCATC
 CAGAATAAAAA**TGAAATTGATTACCTCAATAAGGTCTACCCTACTACAGCTCTACTACTGGATTGGGA**
 TCCGAAAGAACAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAACTG
 GGCTGATAATGAACCTAACACAAAAGGAACAACGAGGACTGCGTGGAGATATACATCAAGAGTCCGTCA
 GCCCTGGCAAGTGAATGATGAGCACTGCTTGAAGAAAAGCACGCATTGTGTTACACAGCCTCCTGCC
 AGGACATGCTCCTGCAGCAACAAGGAGAGTGCCTCGAGACCATCGGGAAC**TACACCTGCTCTGTTACCC**
 TGGATTCTATGGCCAGAATGTGAATACGTGAGAGAGTGTGGAGA**ACTTGAGCTCCCTCAACACGTGCTC**
 ATGAACTGCAGCCACCCTCTGGGAACTTCTCTTTAACTCGCAGTGCAGCTTCCACTGCACTGACGGGT
 ACCAAGTAAATGGGCCAGCAAGCTGGAATGCTTGGCTTCTGGAATCTGGACAAATAAGCCTCCACAGT
 TTAGCTGCCAGTGCCACCCCTGAAGATTCTGAACGAGGAAACATGACCTGCCTTATTCTGCAAAA
 GCATTCAGCATCAGTCTAGCTGCAGCTTCAAGTGTGAAGAGGGATTGCAATTAGTTGGACCGGAAGTGG
 TGCAATGCACAGCCTCGGGGGTATGGACAGCCCCAGCCCCAGTGTGTAAGCTGTGCAGTGTGACACCT
 GGAAGCCCCAGTGAAGGAACATGGACTGTGTTATCCGCTCACTGCTTTTGCCTATGGCTCCAGCTGT
 AAATTTGAGTGCAGCCCCGGCTACAGAGTGAAGGGCTTGGACATGCTCCGCTGCATTGACTCTGGACAT
 GGTCTGCACCC**TGCCAACCTGTGAGGCTATTTCTGTGAGCCGCTGGAGAGTCCGTGCCACGGAAGT**
 GGATTGCTCTCCATCCTTGAGAGCGTTTCAAGTATGACACCAACTGTAGCTTCCGCTGTGCTGAAGGTTTC
 ATGCTGAGAGGAGCCGATATAGTTCGGTGTGATAACTTGGGACAGTGGACAGCACCAGCCCCAGTCTGTC
 AAGCTTTGCAGTGCCAGGATCTCCAGTCCAAATGAGGCCCGGGTGAAGTCTCCACCCCTTCGGTGC
 CTTTAGGTACCAGTCACTGTCAGCTTACCTGCAATGAAGGCTTGTCTCCTGGTGGGAGCAAGTGTGCTA
 CAGTGTGGCTACTGGAACTGGAA**TCTGTTCTCCAGAAATGCCAAGCATTCCCTGCACACCTTTGC**
 TAAGCCCTCAGAATGGAACAATGACCTGTGTTGACCTCTTGGAAAGTCCAGTTATAAATCCACATGTCA
 ATTCATCTGTGACGAGGGATATTCTTTGTCTGGACCAGAAAGATTGGATTGTA**CTCGATCGGGACGCTGG**
 ACAGACTCCCCACCAATGTGTGAAGCCATCAAGTCCCCAGAACTTTTGGCCAGAGCAGGGCAGCCTGG
 ATTGTTCTGACACTCGTGGAGAATTCAATGTTGGCTCCACCTGCCATTTCTTGTAAACAACGGCTTTAA
 GCTGGAGGGGCCAATAATGTGGAATGCACA**ACTTCTGGAAGATGGTCAGCTACTCCACCAACCTGCAAA**
 GGCATAGCATCACTTCTACTCCAGGGGTGCAATGTCCAGCCCTCACCCTCCTGGGCAGGGAACCATGT
 ACTGTAGGCATCATCCGGGAACCTTTGGTTTTAATACCACTTGTACTTTGGCTGCAACGCTGGATTCA
 ACTCATAGGAGACAGCACTCTCAGCTGCAGACCTT**CAGGACAATGGACAGCAGTAACTCCAGCATGCAGA**
 GCTGTGAAATGCTCAGAACTACATGTTAATAAGCCAATAGCGATGA**ACTGCTCCAACCTCTGGGAAACT**
 TCAGTTATGGATCAATCTGCTCTTTCCATTGTCTAGAGGGCCAGTACTTAATGGCTCTGCACAAACAGC
 ATGCCAAGAGAATGGCCACTGGTCAACTACCGTCCCAACCTGCCAAGGACCATTGACTATCCAGGAAGCC
 CTGACTTACTTTGGTGGAGCGGTGGCTTCTACGATAGGTTTGATAATGGGTGGGACGCTCCTGGCTTTGC
 TAAGAAAGCGTTT**CAGACAAAAGATGATGGGAAATGCCCTTGAATCCTCACAGCCACCTAGGAACATA**
 TGGAGTTTTTACAACGCTGCATTTGACCCGAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209822 protein sequence
Red=Cloning site Green=Tags(s)

MANCQIAILYQRFQRVVFGISQLLCFSSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRDYLVAI
QNKNEIDYLNKVLPPYSSYYWIGIRKNNKTWTWVGTKKALTNEAENWADNEPNNKRNNEDCVEIYIKSPS
APGKWDEHCLKKKHALCYTASCQDMSCSKQGECLLETIGNYTCSCYPGFYGPCEYVRECGELELPQHVL
MNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIWTNKPPQCLAAQCPPLKIPERGNMTCLHSAK
AFQHQSSCSFSCEEGFALVGPEVVQCTASGVWTAPAPVCKAVQCQHLEAPSEGTMDCVHPLTAFAYGSSC
KFECQPGYRVRGLDMLRCIDSGHWSAPLPTCEAISCEPLESPVHGSMDCSPSLRAFQYDTNCSFRCAEGF
MLRGADIVRCDNLGQWTAPAPVCQALQCQDLVPVNEARVNCSPHFGAFRYQSVCSFTCNEGLLVGASVL
QCLATGNWNSVPPECQAIPCTPLLSPQNGTMTCVRPLGSSSYKSTCQFICDEGYLSGPERLDCTRSGRW
TDSPPMCEAIKPELFAPEQGS LDCSDTRGEFNVGSTCHFSCNNGFKLEGPNNVECTTSGRWSATPPTCK
GIASLPTPGVQCPAL TTPGQGTMYCRHHPGTFGFN TTCYFGC NAGFTLIGDSTLSCRPSGQWTAVTPACR
AVKCESELHVNKPIAMNCSNLWGNFSYGSICSFHCLEGLLNGSAQTACQENHWSTTVPTCQGPLTIQEA
LTYFGGAVASTIGLIMGGTL LALLRKRFRQKDDGKCPLNPHSHLGTYGVFTNAAFDPSP

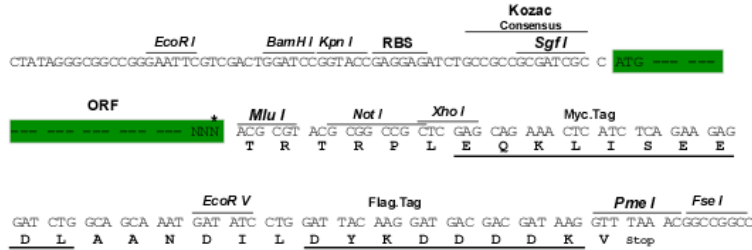
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_h08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003005

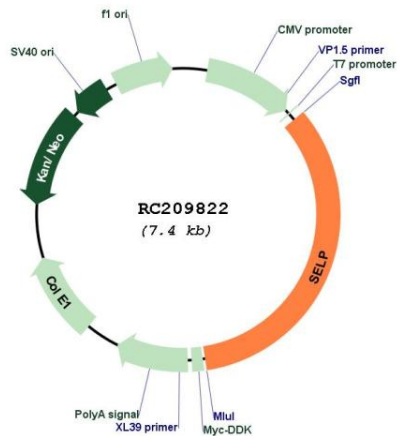
ORF Size: 2487 bp

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](#)

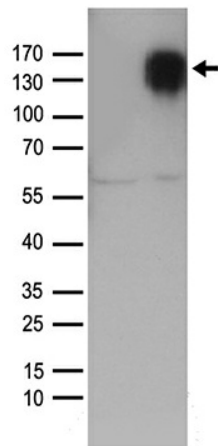
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

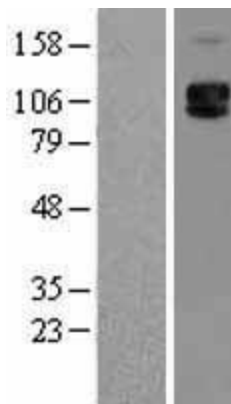
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) 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_003005.4
RefSeq Size:	3185 bp
RefSeq ORF:	2493 bp
Locus ID:	6403
UniProt ID:	P16109
Cytogenetics:	1q24.2
Domains:	CCP, CLECT, EGF
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	90.8 kDa
Gene Summary:	<p>This gene encodes a 140 kDa protein that is stored in the alpha-granules of platelets and Weibel-Palade bodies of endothelial cells. This protein redistributes to the plasma membrane during platelet activation and degranulation and mediates the interaction of activated endothelial cells or platelets with leukocytes. The membrane protein is a calcium-dependent receptor that binds to sialylated forms of Lewis blood group carbohydrate antigens on neutrophils and monocytes. Alternative splice variants may occur but are not well documented. [provided by RefSeq, Jul 2008]</p>

Product images:


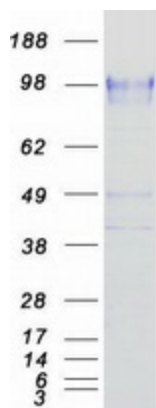
Circular map for RC209822



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SELP (Cat# RC209822, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SELP antibody (Cat# [TA890029]). Positive lysates [LY418960] (100ug) and [LC418960] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418960]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209822 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SELP protein (Cat# [TP309822]). The protein was produced from HEK293T cells transfected with SELP cDNA clone (Cat# RC209822) using MegaTran 2.0 (Cat# [TT210002]).