

Product datasheet for **RC224220**

CD45 (PTPRC) (NM_080921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD45 (PTPRC) (NM_080921) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD45
Synonyms:	B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224220 representing NM_080921 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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Protein Sequence: >RC224220 representing NM_080921
Red=Cloning site Green=Tags(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mk6849_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

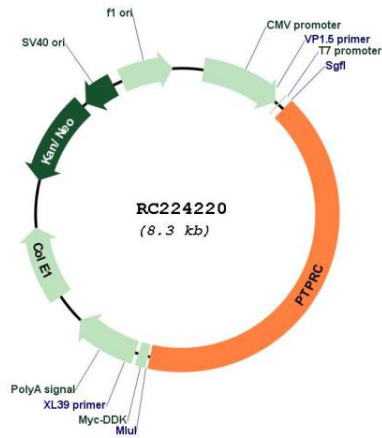


ACCN: NM_080921

ORF Size: 3429 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_080921.2
RefSeq Size:	4543 bp
RefSeq ORF:	3438 bp
Locus ID:	5788
UniProt ID:	P08575
Cytogenetics:	1q31.3-q32.1
Domains:	Y_phosphatase, FN3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Fc gamma R-mediated phagocytosis, Primary immunodeficiency, T cell receptor signaling pathway
MW:	130.7 kDa
Gene Summary:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC224220