

## Product datasheet for **RC210709**

### Peroxiredoxin 5 (PRDX5) (NM\_012094) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Peroxiredoxin 5 (PRDX5) (NM_012094) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Peroxiredoxin 5
Synonyms:	ACR1; AOEB166; B166; HEL-S-55; PLP; PMP20; PRDX6; prx-V; PRXV; SBB110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210709 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACTAGCTGGCGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGCGCGGGTCT  
AGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGGGCGTCTGGCGGGTCCGCAGTTTCAG  
CAGAGCCGCTGCAGCCATGGCCCAATCAAGTGGGAGATGCCATCCAGCAGTGGAGGTGTTTGAAGG  
GAGCCAGGGAACAAGTGAACCTGGCAGAGCTGTTCAAGGCAAGAAGGGTGTGCTGTTTGGAGTTCCTG  
GGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGC  
CAAGGGAGTCCAGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGCGCGAGCC  
CACAAGGCGGAAGGCAAGTTCGGCTCCTGGCTGATCCCCTGGGCGCTTTGGGAAGGAGACAGACTTAT  
TACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAGGA  
TGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCAGAGCCCTCACCTGCAGCCTGGCACCCAATATC  
ATCTCACAGCTC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

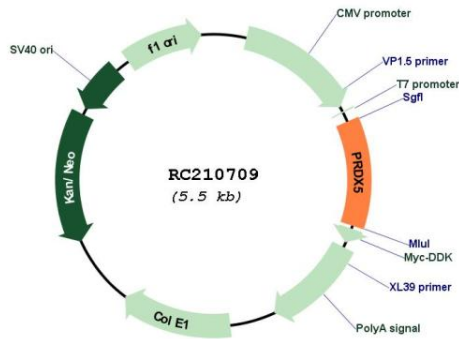


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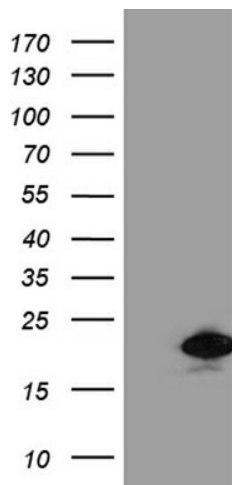


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012094.4</a>
<b>RefSeq Size:</b>	913 bp
<b>RefSeq ORF:</b>	645 bp
<b>Locus ID:</b>	25824
<b>UniProt ID:</b>	<a href="#">P30044</a>
<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	AhpC-TSA
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	22 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017]</p>

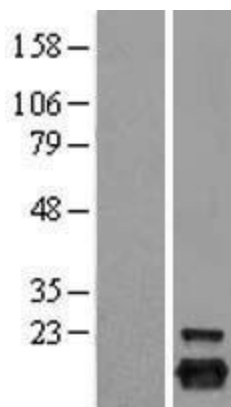
Product images:



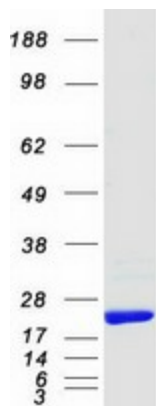
Circular map for RC210709



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PRDX5 (Cat# RC210709, 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-PRDX5 (Cat# [TA811481])(1:2000). Positive lysates [LY402144] (100ug) and [LC402144] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402144]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210709 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRDX5 protein (Cat# [TP310709]). The protein was produced from HEK293T cells transfected with PRDX5 cDNA clone (Cat# RC210709) using MegaTran 2.0 (Cat# [TT210002]).