

Product datasheet for **RR205313**

Prdx4 (NM_053512) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prdx4 (NM_053512) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prdx4
Synonyms: MGC72744
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205313 representing NM_053512
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAACGTGGTCCAAGCTGCTGGACGGGACCACGCCGTCCCGTCGCTGGCGAAAGCTGGTATTGCTCC
TGCCGCCTCTGCTGCTGTTCTCTGTACAGACTGAAGCTTGCAGGGCTTGGAGAGTGATGATCGGTTCCG
GACCCGCGAAAAATGAGTGCCACTTCTACGCTGGTGGACAAGTGTACCCCGGAGAGGTGCCCGGTTTCG
GTCGCAGATCACTCCCTGCACCTAAGCAAAGCCAAGATTTCCAAGCCAGCACCTTATTGGGAAGGAACAG
CTGTGATAAACCGAGAATTCAAGGAGCTCAAATTGACCGACTATCGTGGGAAATACTTGGTTTTTTCTT
CTACCCACTGGATTTACCTTTGTGTGCCAACTGAAATCATCGTTTTGGGGATCGAATTGAAGAATTC
AAATCTATAAACTGAAGTGGTAGCATGCTCTGTTGATTCTCAGTTTACTCACTTGGCCTGGATCAATA
CCCCTCGAAGACAAGGAGGACTGGGGCCAATAAGGATTCACCTCTTTCAGACCTGAACCATCAGATCTC
AAAGGACTACGGTGTATACCTTGAGGACTCTGGACATACTCTTAGAGGGCTCTTTATTATCGATGACAAA
GGAGTCTAAGACAGATTACTCTGAATGACCTTCTGTGGTGTAGATCAGTGGATGAGACTGCGTTTGG
TTCAAGCCTTCCAGTACACTGACAAGCATGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTAAAC
AATAATCCAGATCCAGCTGAAAACTGAAGTATTTTCGACAAGCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205313 representing NM_053512
Red=Cloning site Green=Tags(s)

METWSKLLDGTTPSRWRKLVLLLPLLLFLLQTEALQGLESDDRFRTRENECHFYAGGQVYPGEVSRVS
 VADHSLHL SKAKISKAPYWEGTAVINGEFKELKLTDRGKYL VFFFYPLDFTVCPTEIIAFGDRIIEEF
 KSINTEVVACSVDSQFTHLAWINTPRRQGLGPIRIPLLSDLNHQISKDYGVYLED SGHTLRGLFIIDDK
 GVL RQITLNDLPVGRSVDETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGLKLYFDKLN

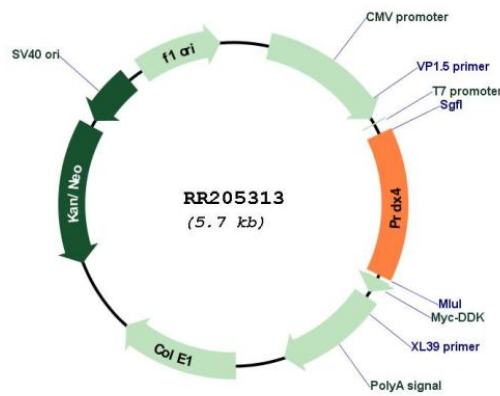
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053512

ORF Size: 819 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_053512.2 , NP_445964.1
RefSeq Size:	964 bp
RefSeq ORF:	822 bp
Locus ID:	85274
UniProt ID:	Q9Z0V5
Cytogenetics:	Xq21
MW:	31 kDa
Gene Summary:	member of a family of thioredoxin-dependent peroxidases; localized to the extracellular space [RGD, Feb 2006]