

# Product datasheet for MR201992

## Prdx1 (NM\_011034) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

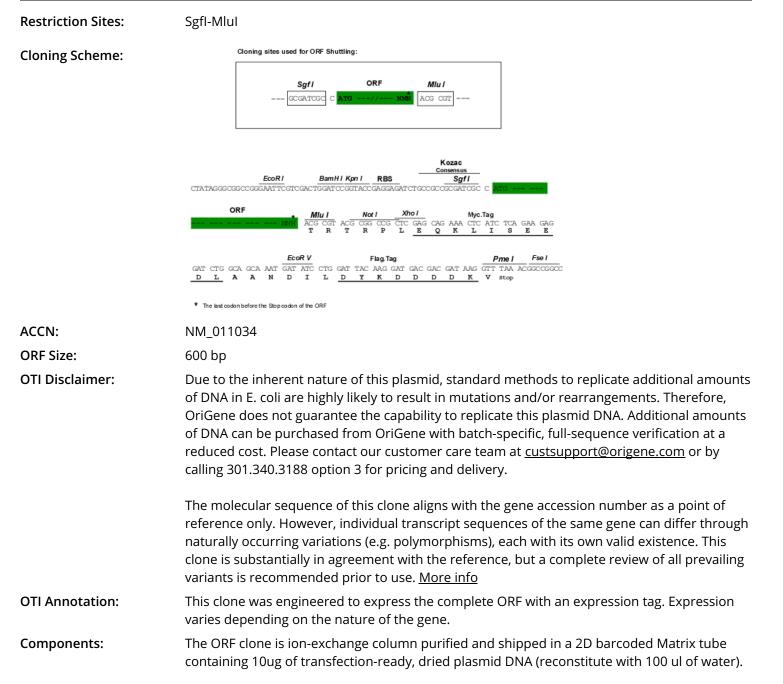
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Product Type:	Expression Plasmids
Product Name:	Prdx1 (NM_011034) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prdx1
Synonyms:	MSP23; NkefA; OSF-3; OSF3; PAG; Paga; Prdxl; prx1; Prxl; Tdpx2; TDX2; TPxA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201992 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCTTCAGGAAATGCAAAAATTGGGTATCCTGCTCCCAACTTCAAAGCTACAGCTGTTATGCCAGATG GACAATTCAAAGATATCAGCCTAAGTGAATACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGA CTTTACTTTTGTGTGCCCACGGAGATCATTGCTTTCAGTGATAGAGCCGATGAATTTAAGAAACTCAAC TGCCAAGTGATTGGCGCTTCTGTGGATTCTCACTTCTGTCATCTGGCATGGATTAACACACCCCAAGAAAC AAGGAGGATTGGGACCCATGAACATTCCCTTAATATCAGATCCCAAGCGCACCATTGCTCAGGATTATGG AGTCTTAAAGGCTGATGAAGGTATCTCTTTCAGGGGCCCTTTTTATTATTGATGATAAAGGTATCCTTCGA CAGATAACAATAAACGATCTTCCGTTGGCCGCTCTGTGGATGAGATTATACGACTAGTCCAGGCCTTCC AGTTCACTGACAAACATGGTGAAGTGTGTCCAGCTGGCTG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>MR201992 protein sequence Red=Cloning site Green=Tags(s)
	MSSGNAKIGYPAPNFKATAVMPDGQFKDISLSEYKGKYVVFFFYPLDFTFVCPTEIIAFSDRADEFKKLN CQVIGASVDSHFCHLAWINTPKKQGGLGPMNIPLISDPKRTIAQDYGVLKADEGISFRGLFIIDDKGILR QITINDLPVGRSVDEIIRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVNKSKEYFSKQK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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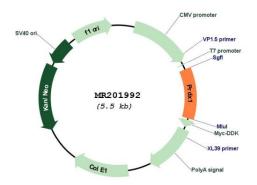


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<b>ORIGENE</b> Prdx1	(NM_011034) Mouse Tagged ORF Clone – MR201992
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 011034.4</u>
RefSeq Size:	1417 bp
RefSeq ORF:	600 bp
Locus ID:	18477
UniProt ID:	<u>P35700</u>
Cytogenetics:	4 53.28 cM
MW:	22.2 kDa
Gene Summary:	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2) (By similarity). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive

postmitotic motor neuron differentiation (PubMed:19766572).[UniProtKB/Swiss-Prot

# **Product images:**



Function]

Circular map for MR201992

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