

Product datasheet for MR222219

Gpx3 (NM_008161) Mouse Tagged ORF Clone

Product data:

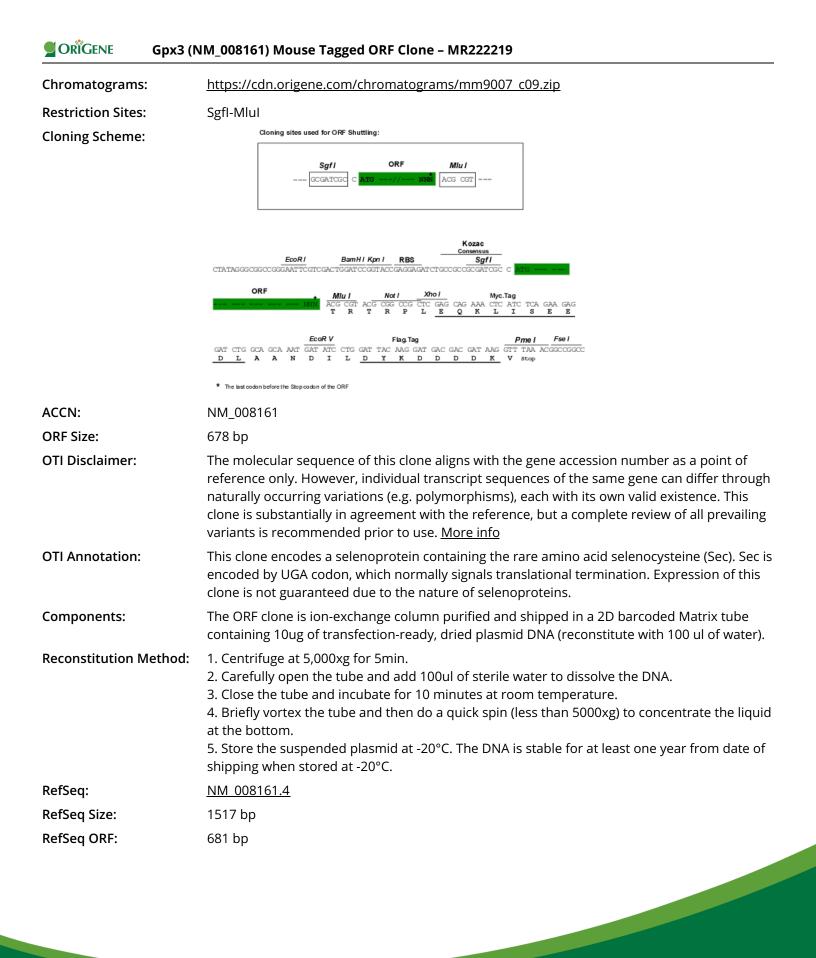
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Gpx3 (NM_008161) Mouse Tagged ORF Clone
Symbol:	Gpx3
Synonyms:	AA960521; EGP; EGPx; GP; GPx; GSHPx-3; GSHPx-P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>MR222219 representing NM_008161 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCCGGATCCTCCGGGCATCCTGCCTTCTGTCCCTGCTCCTGGCCGGGTTTGTTCCGCCG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR222219 representing NM_008161 Red=Cloning site Green=Tags(s)
	MARILRASCLLSLLLAGFVPPGRGQEKSKTDCHGGMSGTIYEYGALTIDGEEYIPFKQYAGKYILFVNVA SY*GLTDQYLELNALQEELGPFGLVILGFPSNQFGKQEPGENSEILPSLKYVRPGGGFVPNFQLFEKGDV NGEKEQKFYTFLKNSCPPTAELLGSPGRLFWEPMKIHDIRWNFEKFLVGPDGIPVMRWYHRTTVSNVKMD ILSYMRRQAALSARGK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



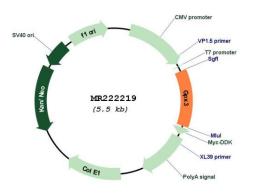
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	Gpx3 (NM_008161) Mouse Tagged ORF Clone – MR222219
Locus ID:	14778
UniProt ID:	<u>P46412</u>
Cytogenetics:	11 B1.3
Gene Summary:	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H2O2) by glutathione, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is secreted and is highly expressed in mouse kidney, which appears to be the major source of the enzyme in plasma. It has a role in mouse organogenesis, and dysregulation of this isozyme has been associated with obesity-related metabolic complications, platelet- dependent thrombosis, colitis-associated carcinoma, and thermosensitive phenotype. This isozyme is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR222219

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