

## Product datasheet for RC224313L1

### GPX6 (NM\_182701) Human Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPX6 (NM_182701) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	GPX6
Synonyms:	dj1186N24; dj1186N24.1; GPx-6; GPX5p; GPXP3; GSHPx-6
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224313).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

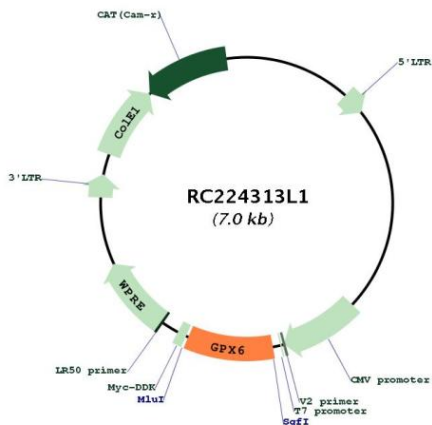
ACCN:	NM_182701
ORF Size:	663 bp



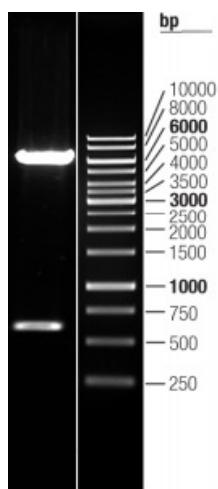
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<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone encodes a selenoprotein containing the rare amino acid selenocysteine (Sec). Sec is encoded by UGA codon, which normally signals translational termination. Expression of this clone is not guaranteed due to the nature of selenoproteins.
<b>Components:</b>	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).
<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_182701.1</a> , <a href="#">NP_874360.1</a>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	257202
<b>UniProt ID:</b>	<a href="#">P59796</a>
<b>Cytogenetics:</b>	6p22.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Glutathione metabolism
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. Expression of this gene has been observed in embryos and olfactory epithelium; however, the exact function of this gene is not known. This isozyme is a selenoprotein in humans, 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. The orthologs of this gene in mouse and rat (and some other species) contain a cysteine (Cys) residue in place of the Sec residue, and their corresponding mRNAs lack SECIS element. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC224313L1



Double digestion of RC224313L1 using SgfI and MluI