

Product datasheet for **RN210731**

Gpx6 (NM_147165) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpx6 (NM_147165) Rat Untagged Clone
Symbol:	Gpx6
Synonyms:	OBPII; Ry2d1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210731 representing NM_147165 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCAGCAGTTCTGGGGTCCCTGTCTTTCTCATTGTTTATGGCTGTATTGGCTCAGGAGACACTGG
ATCCTCAAAAATCAAAGGTGGATTGCAACAAAGGGTGGCTGGCACCGTCTATGAGTACGGAGCCAAACAC
CTTAGATGGTGGGAGTATGTCCAGTCCAGCAGTATGCAGGAAAGCACATTCTCTTTGTCAACGTGGCG
TCCTTCTGTGGCTGACAGCTACGTACCCTGAACGACATTGCAGGAGGAGCTGAGACCATTCATG
TCAGTGTCTTTGGCTTTCCATGCAACAGTTTGAAAACAAGAACCTGGAAAGAACTCAGAGATCCTCCT
TGGACTCAAATATGTTCCGCCAGGCGGTGGCTTTGTTCCCAATTTCCAGCTCTTTGAGAAGGGGATGTG
AACGGAGACAATGAACAAAAGGTTTTTCTTTCTAAAGAGCTCCTGCCCTCCACCTCTGAACCTCTTG
GCTCTCCAGAACATCTCTTCTGGGATCCCATGAAGGTCCATGACATTCGCTGGAACCTTTGAGAAGTTCT
GGTGGGACCGGATGGAGCCCTGTATGCGCTGGTTCACCGAGCTCCTGTGAGATTGTCCAGTCAGAC
ATCATGGAGTACCTAAACCAACCCGTACCCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_147165
Insert Size:	666 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). The expression of this clone is not guaranteed due to the nature of selenoproteins.
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:	<u>NM_147165.1, NP_671694.1</u>
RefSeq Size:	1151 bp
RefSeq ORF:	666 bp
Locus ID:	259233
UniProt ID:	<u>Q64625</u>
Cytogenetics:	17q11
Gene Summary:	This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidases catalyze the reduction of a variety of hydroperoxides using glutathione as a specific electron donor substrate, and thereby protect cells against oxidative damage. Expression of this gene is restricted to embryos and adult olfactory epithelium. The mouse and rat orthologs contain a cysteine (Cys) residue at the active site, unlike the human counterpart, which is a selenoprotein, containing selenocysteine (Sec) instead. [provided by RefSeq, Jul 2017]