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Product datasheet for RR210731

Gpx6 (NM_147165) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpx6 (NM_147165) Rat Tagged ORF Clone
Symbol:	Gpx6
Synonyms:	OBPII; Ry2d1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR210731 representing NM_147165
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCAGCAGTTCTGGGGTCCCTGTCTTTTCTCATTGTTTATGGCTGTATTGGCTCAGGAGACACTGG
ATCCTCAAAAATCAAAGGTGGATTGCAACAAAGGGGTGGCTGGCACCGTCTATGAGTACGGAGCCAACAC
CTTAGATGGTGGGGAGTATGTCCAGTTCCAGCAGTATGCAGGAAAGCACATTCTCTTTGTCAACGTGGCG
TCCTTCTGTGGCCTGACAGCTACGTACCCTGAACTGAACACATTGCAGGAGGAGCTGAGACCATTCAATG
TCAGTGTTTTGGGCTTTCCATGCAACCAGTTTGGAAAACAAGAACCTGGAAAGAACTCAGAGATCCTCCT
TGGACTCAAATATGTTCGCCCAGGCGGTGGCTTTGTTCCCAATTTCCAGCTCTTTGAGAAGGGGGATGTG
AACGGAGACAATGAACAAAAGGTTTTTTCTTTCCTAAAGAGCTCCTGCCCTCCCACCTCTGAACTTCTTG
GCTCTCCAGAACATCTCTTCTGGGATCCCATGAAGGTCCATGACATTCGCTGGAACTTTGAGAAGTTCCT
GGTGGGACCGGATGGAGCCCCTGTCATGCGCTGGTTCCACCAGACTCCTGTCAGAGTTGTCCAGTCAGAC
ATCATGGAGTACCTAAACCAAACCCGTACCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210731 representing NM_147165
Red=Cloning site Green=Tags(s)

MTQQFWGPCLFSLFMAVLAQETLDPQKSKVDCNKGVAGTVYEYGANTLDGGEYVQFQQYAGKHILFVNVA
SFCGLTATYPELNTLQEELRPFNVSVLGFPCNQFGKQEPGKNSEILLGLKYVRPGGGFVPNFQLFEKGDV
NGDNEQKVFSFLKSSCPPTSELLGSPEHLFWDPMKVHDIRWNFEKFLVGPDGAPVMRWFHQTPVRVVQSD
IMEYLNQTRTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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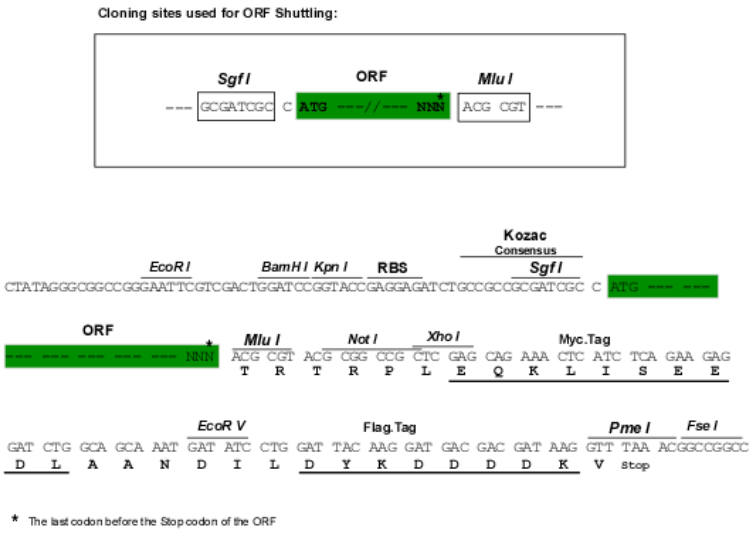
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147165

ORF Size: 663 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 The expression of this clone is not guaranteed due to the nature of selenoproteins.

OTI Annotation: 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.

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:
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.

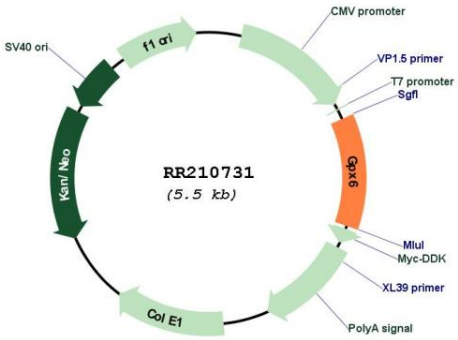
RefSeq: NM_147165.1, NP_671694.1

RefSeq Size: 1151 bp

RefSeq ORF: 666 bp

Locus ID:	259233
UniProt ID:	Q64625
Cytogenetics:	17q11
MW:	25 kDa
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]

Product images:



Circular map for RR210731