

## Product datasheet for **MG216722**

### Gpx5 (NM\_010343) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpx5 (NM_010343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpx5
Synonyms:	Arep; AV379049
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216722 representing NM_010343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTACAGAGTTAAGAGTCTTCTATCTTGTCCACTTCTTCTAGCCAGCTATGTGCAGACAACCCCCA  
GGCCGGAAAAGATGAAGATGGACTGCTACAAAGACGTGAAAGGCACCATCTACGACTATGAGGCTCTGTC  
TCTTAATGGGAAGGAACACATTCATTCAAGCAGTATGCAGGAAAGCACGTCCTCTTTGTCATGTGGCT  
ACCTATTGCGGTCTGACAATCCAGTACCCTGAGCTGAATGCACTCCAGGAGGATCTGAAGCCATTTGGCT  
TGTTATATTGGCTTTCCCTGCAACCAATTTGGAAAGCAAGAACCAGGAGACAATTTAGAGATTCTTCC  
TGGGCTCAAGTATGTTCCGTCAGGAAAAGGTTTTTACCTAACTCCAGCTTTTTGCAAAAAGGGGATGTA  
AATGGTGAACGAGCAGAAAATCTTCACTTCTTGAAGCGTTCTTGTCTCACCCCTCAGAGACTGTGG  
TCATGAGCAAACATACCTTCTGGGAGCCAATAAAAGTCCATGACATCCGCTGGAACCTTGAGAAGTTCT  
GGTGGGACCCGATGGCGTCCCTGTATGCGCTGGTTCCACCAGGCTCCTGTGAGCACTGTCAAGTCTGAC  
ATCATGGCGTACCTGAGCCATTTCAAACCATATA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216722 representing NM\_010343  
 Red=Cloning site Green=Tags(s)

MVTELRVLYLVPLLLASYVQTTTPRPEKMKMDCYKDVKGTIYDYEALSLNGKEHIPFKQYAGKHVLFVNVA  
 TYCGLTIQYPELNALQEDLKPFGLVILGFPCNQFGKQEPGDNLEILPGLKYVRPGKGLPNFQLFAKGDV  
 NGENEQKIFTFLKRSCPHPSETVVMKHTFWEPIKVHDIRWNFEKFLVGPDPVPMRWFHQAPVSTVKSD  
 IMAYLSHFKTI

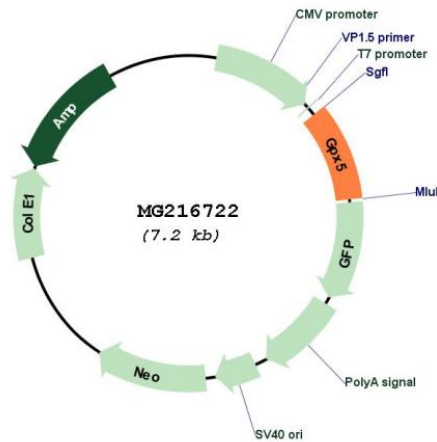
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_010343

**ORF Size:** 663 bp

<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 was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_010343.2</a> , <a href="#">NP_034473.2</a>
<b>RefSeq Size:</b>	1629 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	14780
<b>UniProt ID:</b>	<a href="#">P21765</a>
<b>Cytogenetics:</b>	13 7.73 cM
<b>Gene Summary:</b>	Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. May constitute a glutathione peroxidase-like protective system against peroxide damage in sperm membrane lipids.[UniProtKB/Swiss-Prot Function]