

Product datasheet for SC303037

GPX5 (NM_001509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPX5 (NM_001509) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPX5
Synonyms:	EGLP; GPx-5; GSHPx-5; HEL-S-75p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001509 edited
 GCCGCCACCATGACTACACAGTTAAGGGTCGTCCATCTGCTTCCCCTTCTCCTAGCCTGC
 TTTGTGCAAACAAGTCCCAAGCAGGAGAAGATGAAGATGGATTGCCACAAGACGAGAAA
 GGCACCATCTATGACTATGAGGCCATCGCACTTAATAAGAATGAATATGTTTCCTTCAAG
 CAGTATGTGGCAAGCACATCCTCTTCGTCAACGTGGCCACCTACTGTGGTCTGACAGCG
 CAATATCCTGAACTAAATGCACTCCAGGAGGAGCTGAAGCCCTATGGTCTAGTTGTGTTG
 GGCTTTCCTGCAACCAATTTGGAAAGCAAGAACCAGGAGATAACAAAGAGATTCTTCT
 GGGCTCAAGTATGTCCGTCCAGGGGAGGATTTGTACCTAGTTTCCAGCTTTTTGAGAAA
 GGGGATGTGAATGGTAAAAAGAACAGAAAGTCTTCAGTTTCTTGAAGCACTCCTGCCT
 CATCCCTCTGAGATTTTGGGCACATTCAAATCTATCCTGGGACCCTGTAAGGTCAT
 GACATCCGTTGGAACCTTTGAAAAGTTCCCTGGTGGGCCTGATGGAATCCCTGTCATGCC
 TGGTCCCACGGGCTACGGTCAGCTCAGTCAAGACAGACATCCTGGCGTACTTGAAGCAA
 TTCAAAACCAAATAG

Restriction Sites: Please inquire

ACCN: NM_001509

Insert Size: 700 bp

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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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_001509.1, NP_001500.1</u>
RefSeq Size:	668 bp
RefSeq ORF:	666 bp
Locus ID:	2880
UniProt ID:	<u>Q75715</u>
Cytogenetics:	6p22.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Arachidonic acid metabolism, Glutathione metabolism
Gene Summary:	<p>This gene belongs to the glutathione peroxidase family. It is specifically expressed in the epididymis in the mammalian male reproductive tract, and is androgen-regulated. Unlike several other characterized glutathione peroxidases, this enzyme is not a selenoprotein, lacking the selenocysteine residue. Thus, it is selenium-independent, and has been proposed to play a role in protecting the membranes of spermatozoa from the damaging effects of lipid peroxidation and/or preventing premature acrosome reaction. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>