

Product datasheet for **RG202347**

PIST (GOPC) (NM_001017408) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PIST
Synonyms:	CAL; dJ94G16.2; FIG; GOPC1; PIST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG202347 representing NM_001017408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGCGGGCGGTCCATGCCAGCAGCAGCCGAGGGGGCCAGGGGGCGCCTCCTGCTCCGTGGGG
 CCCCTGGCGGGGTATCCATGTTCCGGTGGCTGGAGGTGCTGGAGAAGGAGTTCGACAAAGCTTTTGTGGA
 TGTGGATCTGCTCTGGGAGAGATCGATCCAGACCAAGCGGACATCACTTATGAGGGGCGACAGAAGATG
 ACCAGCCTGAGCTCCTGCTTTGCACAGCTTTGCCACAAAGCCAGTCTGTGTCTCAATCAACCACAAGC
 TGGAGGCACAGTTGGTGGATCTGAAATCTGAATGACAGAAACCAAGCAGAGAAAGTTGTTTTGGAGAA
 AGAAGTACATGATCAGCTTTTACAGCTGCACTCTATTAGCTGCACTTCATGCTAAACTGGTCAAAGT
 GCTGACTCTGGTACCATTAAAGGCAAAATTGAAAAGAGAGCTTGAGGCAAAACAAAAAGAAAAATGAAAG
 AAGCACAATTGAAGCTGAAGTGAATTTGTTGAGAAAAGAGAATGAAGCCCTTCGTAGACATATAGCTGT
 TCTCCAGGCTGAAGTATATGGGGCGAGACTAGCTGCCAAGTACTTGGATAAGGAAGTGCAGGAAGGGTC
 CAACAGATACAATTGCTAGGACGAGATATGAAGGGACCTGCTCATGATAAGCTTTGGAACCAATTAGAAG
 CTGAAATACATTTGCATCGTCACAAAATGTGATCCGAGCCTGCAGAGGACGTAATGACTTGAAACGACC
 AATGCAAGCACCACAGCCATGATCAAGATTCCTAAAGAAAAGCCAAGGTGTTGGTCCAATTAGAAAA
 GTTCTCCTCCTTAAGGAAGATCATGAAGCCTTGGCATTTCATTAACAGGTGGGAAAGAACATGGTGTT
 CAATCCTCATCTCTGAGATCCATCCGGGGCAACCTGCTGATAGATGCGGAGGGCTGCACGTTGGGGATGC
 TATTTTGGCAGTCAACGAGTTAACCTAAGGGACACAAAGCATAAAGAAGCTGTAACCTATTCTTTCTCAG
 CAGAGAGGAGAGATTGAATTTGAAGTAGTTTATGTGGCTCCTGAAGTGGATTCTGATGATGAAAACGTAG
 AGTATGAAGATGAGAGTGGACATCGTTACCGTTTGTACCTTGATGAGTTAGAAGGAGGTGTAACCTGG
 TGCTAGTTGCAAGACACAAGTGGGGAAATCAAAGTATTACAAGGATTTAATAAGAAGGCAGTAACCTGAC
 ACACATGAAAATGGAGACCTGGGCACTGCAAGTGAAATCCGCTAGATGACGGTGTTCAAAATTAGATG
 ATCTGCACACTCTGTATCATAAAAATCTTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202347 representing NM_001017408
 Red=Cloning site Green=Tags(s)

MSAGGPCPAAAGGGPGGASCSVGAPGGVSMFRWLEVLKEFEKAFVDVLLLLGEIDPDQADITYEGRQKM
 TSLSSCFAQLCHKAQSVSQINHKLEAQLVDLSELTETQAEKVLEKEVHDQLQLHSIQLQLHAKTGQS
 ADSGTIKAKLERELEANKKEKMKEAQLEAEVKLLRKENEALRRHIAVLQAEVYGARLAAYLDKELAGRV
 QQIQLLGRDMKGPAGDKLWNQLEAEIHLHRHKTIVIRACRGRNDLKRPMQAPPGHDQDSLKKSQGVGPIRK
 VLLLLKEDHEGLGISITGGKEHGVPIILISEIHPGQPADRCGGLHVGDAILAVNGVNLRDTHKEAVTILSQ
 QRGEIEFEVYVAPEVSDDENVEYEDES GHRYRLYLDELEGGNPGASCKDTSGEIKVLQGFNKKAVTD
 THENGDLGTASETPLDDGASKLDDLHTLYHKKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001017408

ORF Size: 1362 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

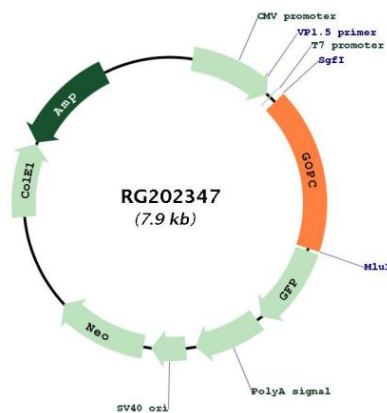
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001017408.3</u>
RefSeq Size:	4616 bp
RefSeq ORF:	1365 bp
Locus ID:	57120
UniProt ID:	<u>Q9HD26</u>
Cytogenetics:	6q22.1
Gene Summary:	This gene encodes a Golgi protein with a PDZ domain. The PDZ domain is globular and proteins which contain them bind other proteins through short motifs near the C-termini. Mice which are deficient in the orthologous protein have globozoospermia and are infertile. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG202347