

Product datasheet for **RG201903**

PINX1 (NM_017884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PINX1
Synonyms:	Gno1; LPTL; LPTS; Pxr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201903 representing NM_017884
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGTCTATGCTGGCTGAACGTCGGCGGAAGCAGAAGTGGGCTGTGGATCCTCAGAACACTGCCTGGAGTA
ATGACGATTCCAAGTTTGGCCAGCGGATGCTAGAGAAGATGGGGTGGTCTAAAGGAAAGGGTTTAGGGGC
TCAGGAGCACGGAGCCACAGATCATATTAAAGTTCAAGTGAAAAATAACCACCTGGGACTCGGAGCTACC
ATCAATAATGAAGCAACTGGATTGCCATCAGGATGATTTTAACCAGCTTCTGGCCGAACCTGAACACTT
GCCATGGGCAGGAAACCACAGATTCTCGGACAAGAAGGAAAAGAAATCTTTAGCCTTGAGGAAAAGTC
CAAAATCTCCAAAACCGTGTTCACTATATGAAATTCACAAAAGGGAAGGATCTGTCATCTCGGAGCAAA
ACAGATCTTGACTGCATTTTGGGAAAAGACAGAGTAAGAAGACTCCCGAGGGCGATGCCAGTCCCTCCA
CTCCAGAGGAGAACGAAACCACGACAACCAGCGCCTTCACCATCCAGGAGTACTTTGCCAAGCGGATGGC
AGCACTGAAGAACAAGCCCAGGTTCCAGTTCAGGGTCTGACATTTCTGAGACGCAGGTGGAACGTAAA
AGGGGGAAGAAAAATAATAAGAGGCCACAGGTAAGATGTGGAAGTTACCTCCAGCCTAAGGCCAAGA
GGCACACGGAGGGAAGCCGAGAGGGCCGAGGCCAGGAGCGAGTGCCAAGAAGAAGAGCGCGCCAGC
AGAAGAGCAGCTCAGAGGCCCTGCTGGGACCAGAGTTCAAGGCCTCTGCTCAGGATGCAGGGGACCAT
GTGCAGCCGCTGAGGGCCGGGACTTCACCTGAAGCCAAAAAGAGGAGGGAAGAAAAAGCTGCAAA
AACCAGTAGAGATAGCAGAGGACGCTACACTAGAAGAACGCTAGTGAAAAAGAAGAAGAAGAAAGATT
CAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG201903 representing NM_017884
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MSMLAERRRKQKWAVDPQNTAWSNDDSKFGQRMLEKMGWSKGKGLGAQEHGATDHIKVQVKNHNLGLGAT
INNEDNWIAHQDDFNQLLAELNTCHGQETDSSDKKEKKSFSLEEKSKISKNRVHYMKFTKGDLSSRSK
TDLDCIFGKRQSKKTPEGDASPSTPEENETTTTSAFTIQEYFAKRMAALKNKPQVPVPGSDISETQVERK
RGKKINKEATGKDYESYLQPKAKRHTGKPERAEAQERVAKKKSAPAEELRGPCWDQSSKASAQDAGDH
VQPPEGRDFTLKPKKRRGKKKLQKPVEIAEDATLEETLVKKKKKKKDSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_017884

ORF Size: 984 bp

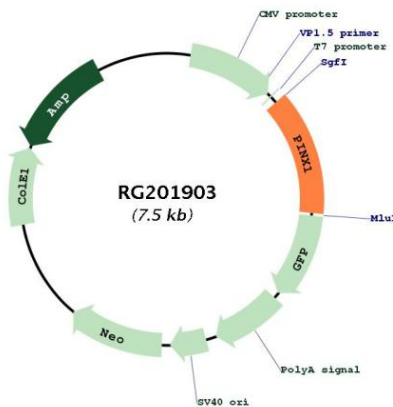
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

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:	NM_017884.1
RefSeq Size:	1577 bp
RefSeq ORF:	987 bp
Locus ID:	54984
UniProt ID:	Q96BK5
Cytogenetics:	8p23.1
Gene Summary:	Microtubule-binding protein essential for faithful chromosome segregation. Mediates TRF1 and TERT accumulation in nucleolus and enhances TRF1 binding to telomeres. Inhibits telomerase activity. May inhibit cell proliferation and act as tumor suppressor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201903