

## Product datasheet for MR222008

### Pinx1 (NM\_028228) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | Pinx1 (NM_028228) Mouse Tagged ORF Clone                          |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | Pinx1                                                             |
| Synonyms:                 | 67-11-3; 2210403I16Rik; 2610028A01Rik; AU024023; LPTS; LPTS1      |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >MR222008 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCGATGCTAGCAGAGCGGCGCGGAAGCAGAAATGGACTGTGGATCCCAGAAACACCGCGTGGAGTA  
 ACGATGATTCCAAGTTTGGCCAGAAGATGCTTGAGAAGATGGGGTGGTCTAAAGGAAAGGGTTTGGGAGC  
 TCAGGAGCAAGGAGCCACAGAACATATTAAGTTAAAGTTAAAAATAACCACTGGGACTTGGAGCTACA  
 AACATAATGAAGACAACTGGATTGCTCACCAGGATGACTTCAACCAGCTTTTGGCAGCACTCAACACTT  
 GCCACGGTCAGGAAACAGCAGATTCCTCAGACAAAAGGAAAAGAAATCTTTAGCCTTGAAGAAAAATC  
 CAAAATCTCCAAAACCGGGTTCATTATATGAAATTCACAAAAGGGAAGGATCTGTCTCTCGGAGTGAA  
 ACCGACCTGGACTGCATTTTGGAAAAAGGAGGAACAAGAAGCTTGCTCAGGATGGCTGCAGCAACTCCT  
 CTGCGGATGAGGTGAACACCTCCCTGACCACAACCAACGACCACCACTAGTGCCTTCACCATCCAGGAATA  
 TTTTGCCAAGAGAATGGCCCAATTAAGAACAAGCCACAAGCCTCAGCTCCAGGGTCTGACCTTTCAGAG  
 ACCCTGTTGAAAGGAAAAAGGGAAGAAAAAACAAGAGGCAGCAGACAGATGTAGAGAAGCTCTC  
 CCCAACACAAGGCCAAGAGGCATAAAAAGAAAAAGCGTGTGAAGCAGAGAGGGGCCCTGTGGCCAAGAA  
 GAGAGACCGAGCAGAGCTGCAGCCTGGAGGCCCAAGTGAAGCAGAGAGGGGCCCTGTGGCCAAGAA  
 GCAGAAGATTGTGTACAAACACCAGACATCCAGGATGATGTCCAAAGCCCAAGAAGAGGAAAGCAAAGA  
 AAAAGCTGCAAAGGCCAGAAGGAGTAGAAATAGACGCCACACTAGACAGAGCACCAGTGAAGAAAGAA  
 GAAGAAAGTTTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >MR222008 protein sequence  
 Red=Cloning site Green=Tags(s)

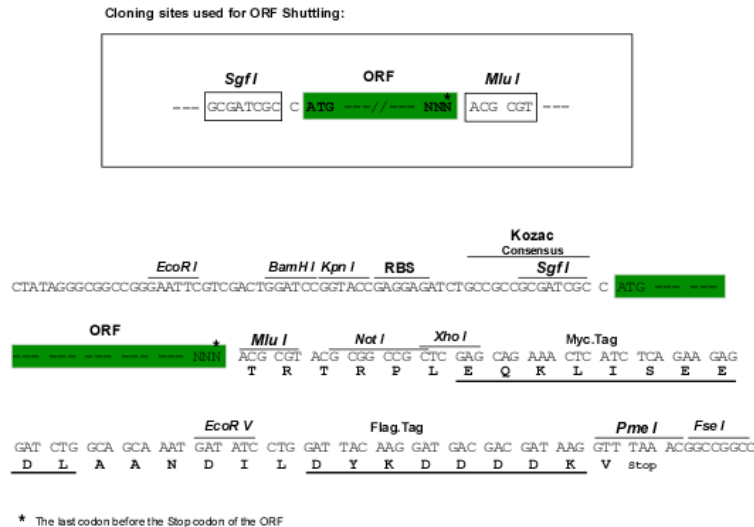
MSMLAERRRKQKWTVDPRNTAWSNDDSKFGQKMLEKMGWSKGKGLGAQEQGATEHIKVKVKNHNLGLGAT  
 NNNEDNWIAHQDDFNQLLAALNTCHGQETADSSDKKEKKSFSLEEKSKIKNRVHYMKFTKGKDLSSRSE  
 TDLDICIFGKRRNKLAQDGCNSSADEVNTSLTTTTTTSAFTIQEYFAKRMAQLKNKPQASAPGSDLSE  
 TPVERKKGKKKNKEAADTDVENSPOHKAKRHHKKRVEAERGPVAKKRDRALQPGGPSEDECSDASVEA  
 AEDCVQTPDIQDDVPKPKKRKAKKKLQRPEGVEIDATLDRAPVKKKKKKVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_028228

**ORF Size:** 996 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\\_028228.3](#), [NP\\_082504.1](#)

**RefSeq Size:** 1351 bp

**RefSeq ORF:** 999 bp

**Locus ID:** 72400

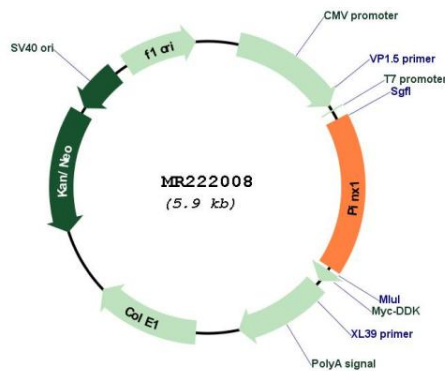
**UniProt ID:** [Q9CZX5](#)

**Cytogenetics:** 14 D1

**MW:** 37.2 kDa

**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 (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR222008