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Product datasheet for MG222008

Pinx1 (NM_028228) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pinx1 (NM_028228) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pinx1
Synonyms:	67-11-3; 2210403I16Rik; 2610028A01Rik; AU024023; LPTS; LPTS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222008 representing NM_028228
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGATGCTAGCAGAGCGGCGGCGGAAGCAGAAATGGACTGTGGATCCCAGAAACACCGCGTGGAGTA
ACGATGATTCCAAGTTTGGCCAGAAGATGCTTGAGAAGATGGGGTGGTCTAAAGGAAAGGGTTTGGGAGC
TCAGGAGCAAGGAGCCACAGAACATATTAAAGTTAAAGTTAAAAATAACCACCTGGGACTTGGAGCTACA
AACAATAATGAAGACAACTGGATTGCTCACCAGGATGACTTCAACCAGCTTTTGGCAGCACTCAACACTT
GCCACGGTCAGGAAACAGCAGATTCCTCAGACAAAAAGGAAAAGAAATCTTTTAGCCTTGAAGAAAAATC
CAAAATCTCCAAAAACCGGGTTCATTATATGAAATTCACAAAAGGGAAGGATCTGTCCTCTCGGAGTGAA
ACCGACCTGGACTGCATTTTTGGAAAAAGGAGGAACAAGAAGCTTGCTCAGGATGGCTGCAGCAACTCCT
CTGCGGATGAGGTGAACACCTCCCTGACCACAACCACGACCACCACTAGTGCCTTCACCATCCAGGAATA
TTTTGCCAAGAGAATGGCCCAATTAAAGAACAAGCCACAAGCCTCAGCTCCAGGGTCTGACCTTTCAGAG
ACCCCTGTTGAAAGGAAAAAGGGAAAGAAAAAAAACAAAGAGGCAGCAGACACAGATGTAGAGAACTCTC
CCCAACACAAGGCCAAGAGGCATAAAAAGAAAAAGCGTGTGGAAGCAGAGAGGGGCCCTGTGGCCAAGAA
GAGAGACCGAGCAGAGCTGCAGCCTGGAGGCCCCAGTGAGGACGAGTGTTCCGATGCCTCTGTCGAAGCT
GCAGAAGATTGTGTACAAACACCAGACATCCAGGATGATGTCCCAAAGCCCAAGAAGAGGAAAGCAAAGA
AAAAGCTGCAAAGGCCAGAAGGAGTAGAAATAGACGCCACACTAGACAGAGCACCGGTGAAAAAGAAGAA
GAAGAAAGTTTCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

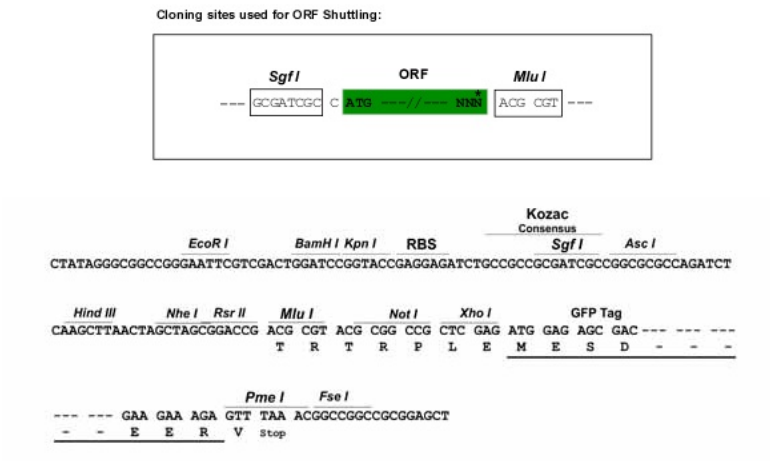
>MG222008 representing NM_028228
Red=Cloning site Green=Tags(s)

MSMLAERRRKQKWTVDPRNTAWSNDDSKFGQKMLEKMGWSKGKGLGAQEQGATEHIKVKVKNNHLGLGAT
NNNEDNWIAHQDDFNQLLAALNTCHGQETADSSDKKEKKSFSLEEKSKISKNRVHYMKFTKGKDLSSRSE
TDLDCIFGKRRNKKLAQDGCSNSSADEVNTSLTTTTTTTSAFTIQEYFAKRMAQLKNKPQASAPGSDLSE
TPVERKKGKKKNKEAADTDVENSPQHKAKRHKKKKRVEAERGPVAKKRDRAELQPGGPSEDECSDASVEA
AEDCVQTPDIQDDVPKPKKRKAKKKLQRPEGVEIDATLDRAPVKKKKKKVSR

TRTRPLE - GFP Tag - V

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

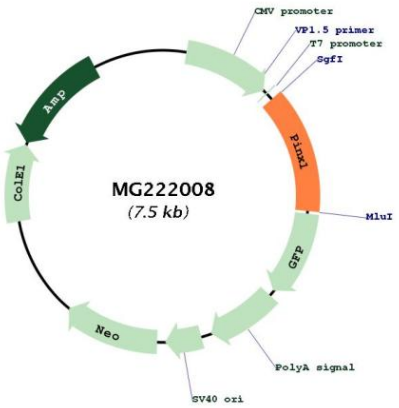
Locus ID: 72400

UniProt ID: Q9CZX5

Cytogenetics: 14 D1

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 MG222008