

Product datasheet for **RR211065**

Pelo (NM_001007634) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pelo (NM_001007634) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Pelo
 Synonyms: MGC94455
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR211065 representing NM_001007634
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCTTGTGAGGAAAGATATCGAGAAGGACAATGCGGGCCAGGTCACCTCGTCCCGGAGGAGCCCG
 AGGACATGTGGCACACCTACAATCTAGTGCAGGTGGGCGACAGCCTGCGCGCCTCCACCATCCGTAAGGT
 CCAGACCGAGTCTCCACAGGCAGCGTGGGGAGCAACCGTGTCCGCACCACCTCACTCTTTGCGTGGAG
 GCCATCGACTTCGACTCCAGGCCTGCCAGCTGCGGGTTAAGGGCACCAATATCAAGAGAATGAGTATG
 TCAAGATGGGGGCTTACCACACCATCGAACTGGAGCCCAACCGCCAGTTCACCTGGCCAAGAAACAGTG
 GGACAGTGTGGTTCTGGAACGCATCGAGCAGGCATGTGACCCGGCCTGGAGCGCTGATGTGGCAGCTGTG
 GTCATGCAGGAGGGCCTCGCCATGTCTGCTTAGTCACGCCAGCATGACCCTTACCCGTGCCAAGGTGG
 AGGTGAACATCCCAGGAAACGGAAAGGCAACTGTTCCAGCATGACCGGGCCTTGGAGCGGTTCTATGA
 ACAAGTGGTCCAGGCCATCCAGCGCCACATAAACTTTGAGGTTGTAAGTGCATTCTGGTGGCCAGCCCT
 GGATTTGTGCGAGAGCAGTCTGCGATTACATGTTTCAACAAGCTGTGAAGACCGACAACAAGGTGCTCC
 TGGAAAACCGCTCAAATTCCTTCAGGTACACGCCTCCTCTGGACACAAGTACTCCCTGAAAGAGGTCCT
 ATGTGATCCTACTGTAGCGAGCCGCTTTTCAGACACGAAAGCTGCCGGGAAGTAAAAGCCTTGGATGAC
 TTCTACAAAATGTTACAGCACGAACCTGACCGAGCATTCTATGGACTCAAGCAGGTGGAGAGGGCCAATG
 AAGCCTTGGCGATTGACACCTTGCTCATCAGTGATGAGCTCTCCGGCATCAGGATGTGGCCACCCGGAG
 CCGGATGTGAGGCTGGTGGACAGTGTAAAGAGAATGCGGGCACCGTAAGGATATTCTCCAGTCTCCAC
 GTGTCTGGGGAACAGCTTGGTCAGCTGACTGGAGTAGCTGCCATTCTCCGCTTCCCTGTGCCGAACTTT
 CTGACCAAGAGGATGATTCAAGTTCTGAAGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211065 representing NM_001007634
Red=Cloning site Green=Tags(s)

MKLVRKDIEKDNAGQVTLVPEEPEDMWHYTNLVQVGDLSLRASIRKVKQTESSTGSGVSNRVRTTLTLCVE
 AIDFDSQACQLRVKGTNIQENEYVKMGAYHTIELEPNRQFTLAKKQWDSVVLERIEQACDPAWSADVAAV
 VMQEGLAHVCLVTPSMTLTRAKEVNIIPRKRKGNCSQHDRALERFYEQVVQAIQRHINFVVKCILVASP
 GFVREQCDYMFQAVKTDNKVLLLENRSKFLQVHASSGHKYSLEKVLCDPTVASRLSDTKAAGEVKALDD
 FYKMLQHEPDRAFYGLKQVERANEALADTLLISDELFRHQDVATRSRYVRLVDSVKENAGTVRIFSSHL
 VSGEQLGQLTGVAAILRFPVPELSDQEDDSSSEED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

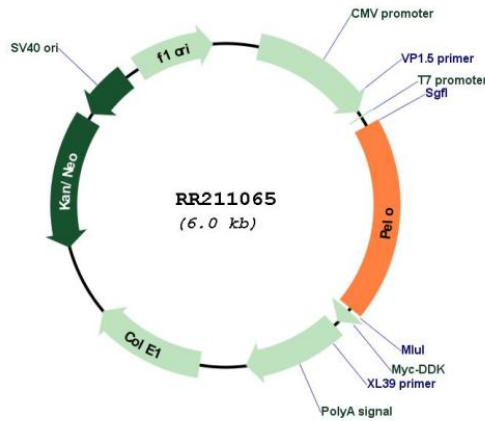
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007634

| | |
|-------------------------------|---|
| ORF Size: | 1155 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: | <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: | NM_001007634.1 , NP_001007635.1 |
| RefSeq Size: | 1550 bp |
| RefSeq ORF: | 1158 bp |
| Locus ID: | 294754 |
| UniProt ID: | Q5XIP1 |
| Cytogenetics: | 2q14 |
| MW: | 43.4 kDa |
| Gene Summary: | Required for normal chromosome segregation during cell division and genomic stability (By similarity). May function in recognizing stalled ribosomes and triggering endonucleolytic cleavage of the mRNA, a mechanism to release non-functional ribosomes and degrade damaged mRNAs. May have ribonuclease activity (Potential).[UniProtKB/Swiss-Prot Function] |