

Product datasheet for **RN214606**

Pelp1 (NM_001024270) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pelp1 (NM_001024270) Rat Untagged Clone
Tag: Tag Free
Symbol: Pelp1
Synonyms: RGD1306320
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN214606 representing NM_001024270
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCGTTCTTAGTGGGCCACCACGGGCTCCCCTGCTGGGGCTCTGGCGGCCTGGGGTCT
TCTCTGCGCGGGATCCGGTCCGCGTTTTCGCTGCTGCTGTTGGAGAGCGTTTCTGGGTGTTGCAACC
GCGAACAGGGTCGCACGTTGCCCTGTGCATCCCCAATCCAGTGGGCCCTTATTTGCCTGGGCTCATG
TGCTTACTGAGGCTGCATGGGACAGCGGTGGGGCTCAGAATCTTTCAGCTCTTGGGGCATTGGTGAATC
TCAGTAATGCACACCTTAGCTCCATCAAACTCGGTTTGAAGGCCTGTGTCTGCTGCTCCTGTTGGTAGG
GGAGAGCCCCACAGAGTTGTTCCAGCAACTGTGTTTCTGGCTTCGGAGCATCCAGCAGGTGCTGCAG
TCTCAGGACTCACCGCCACCATGGAGCTGGCTGTGGCTATCCTGAGGGATCTGCTTCGATATGCATCCC
AGCTTCTACCTGTTTCGGGACATCTCCACCAACCACCTTCTGGGCTTCTTACTTCTTGCTGGGCT
CAGACCAGAGTGTGAGCAATCAGCTTGGAGGGAATGAAGGCTTGTGTGACCTATTTTCTCGGGCTGT
GGCTTTCTAAAAGGAAAGCTTGTCTTCTTCTGCTCGGTTGGATTCTTGAACCTCAGCTCCAAC
AGAGAACTGGGAGCAGGAGCTGCACAGCCTGTGACCTCACTGCACAGCTTGTGGGGTCCCTGTTTGGAG
GAAACAGAGACTGCTCCTGTGCAGAGTGAAGGCCCTGGAGTAGAGATGCTGCTTTCACCCTCAGAAGATG
ATAACTCATGTCTCCTCCAGCTTGGCAGAGGTTTTTCAGGACTGGCCGTTGCTGGGGCTCATGCT
CAGCTCTGAGTTTGGGGCTCCTGTGTCCGTTCTGTGCAGGAAATCCTGGACCTCATCTGCCGATCCTT
GGTATCAGTAGCAAGAATATTAACCTGCTTGGAGATGGTCCCCTCCGTTGCTGCTGCTGCCCTCTCTCC
ACCTTGAAGCCTTGGACTTGCTCTCTGCACTGATCCTTGCCTGTGGAGGCCGACTCTTGCCTTTTGGTGC
CCTGATCAGCCGGCTGCTTCCCCAGTTCTCAACCTGGAGCACTGGGAGGACGCTCTGGCTCCAGGC
CAGGAGAGGCCTTACAGCACCATTCCGACCAAGGTGTACGCTATCTTAGAGCTATGGGTGCAGGTTTGTG
GGGCTCAGCAGGTATGCTTCAAGGAGGGGCTCTGGAGAGGCCCTTGTACCCACCTGCTCAGTGACAT
CTCCCCTCCAGCTGATGCTTAAAGCTCTGCACTACCAGGGAAGCTCTGATGGAGGTTTCAAAGTGGG
AAGCTAGTGCCCTAAGAAGCTAAAACCTGCATATGGGGAAGCTTGGCTCCACCCAGCCAAAGGAAAG



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GAGATAGGAATGCCAACAGCGATGTGTGTGCAGCTGCACTGAGAGGTCTCAGCCGACCATCCTCATGTG
 CGGGCCTCTCGTCAAGGAGGAGACTCACAGGAGGCTTCATGATCTCGTCCTGCCCTGGTCATGAGTGTC
 CAGCAGGGTGAAGTCTGGGAAGTTCTCCTTACAACAGCTCCTGTGTGCGCTGGAGCTCTACCGCTGC
 TGCTGGCTTTACTGTGGCACCTTCCCCCGCTGCCCTCCTCTTTCTGTGCCCTGAAAGCTTTCTC
 TCTTGGCCAATGGGAAGATAGTCTTGAGGTCTCCTCTTTCTGTCTCAGAAGCTCTGGTGACTGTTCTGCT
 CTGACACACCCCCGAGTACCACCTCTACAGAGCTCAGGCCCTGCCTGTCTACACCTGCCCCGTTCCCTC
 CTCTGAGGCCCATCTTCATTACAGGGCCCCAGCCTTCCATACTCCAGGTCCCATGCCCTATAGGTGC
 TCTGCCATCTCCAGGCCAGTGCCTCAGCAGGCCCCATTCCACAGTAGGCTCGATGTCCTCAGCTGGC
 TCTGTGCCATCCACAGGCCAGTGCCTCTCGCCCCGGACCTCCAGCAACAGCCAACCACTTAGGGCTCG
 CTGTCCCAGGCCTGGTGTCTGTCCACCCAGGCTCCTTCTGGCTCTGAAAACCACCGTGCAGGTTCTGG
 TGAGGATCCTGTCTTGTCTAGTGGGACCCCTCCACCTAGCATACCTCCAGATGAAACTTTTGGGGG
 AGAGTACCAGGCCAGCCTTTGTCCACTACGATAAGGAGGAGGCATCTGATGTAGAGATCTCCTTGAAA
 GTGACTCTGATGACAGTGTGGTATTGTACCTGAGGGGCTTCCATCCCTGCCACCACCACCTCAGGCAC
 TCCTCCCCCTGTGGCTCCTACTGGCCACCAACAGCCTCCCTCCTGTGCCTGCTAAGGAGGATTCTGAA
 GAACTGCCTGCACTCCAGGGCCTACCTCCACCCCCACCCCCACCTGTTTCTGGTCTGTGA
 CACTTCTCCACCCAGCTCGTCCCTGAAGGGACTCCTGGAGGGGGAGGACCACAGCTATGGAAGAAGA
 TTTGACAGTTATTAATATCAACAGCAGTGTGAAGAGGAGGAGGAAGAAGAGGAAGAGGAGGAGGAAGAT
 GAAGATGAGGAGGAAGAAGACTTTGAGGAAGAGGAAGAAGATGAAGAAGAGTATTTTGAAGAGGAAGAGG
 AGGAAGAAGAGTTTGGAGGAAATTTGAGGAGGAAGAAGGTGAATTAGAAGAGGAGGAAGAGGAGGAGGA
 AGAAGAGTTAGAAGAGGTAGAAGATGTGGAGTTCGGTTCAGCAGGGGAAGTGAAGAAGGTGGACCTCCA
 CCCCCAACCTGCCACCAGCTCTGCCACCTACAGACTCCCCAAAGTGCAGCCCGAGGCAGAACCTGAGC
 CTGGGCTCTTATTGGAAGTTGAGGAGCCAGGGCCGAGGATGGCCTGGCCTGAGATCGCGCCACCCT
 GGCCCCTGAGGTCTCCCTCCCAGGAGGAGTGGAGCGGGAAGGGAAAGCCCTACAGCAGGGCCACCT
 CAGGAGCTTGTGAAGAAGAGTCTCTGTCCCCCTACCCTGCTGGAAGAAGGGACTGAGGGTGGAGGTG
 ACAAGGTGCCACCCACCTGAGACACCTGCACAAGAAGAGATGGAGACAGAAACAGAAGCTTCAGCTCC
 TCAGGGAAGGAGCAAGATGACACAGCTGCCATGCTGGCTGACTTCATTGATTGTCCCCCTGATGATGAG
 AAGCCACCACCTGCTACAGAGCCTGACTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001024270

Insert Size:

3393 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

RefSeq: [NM_001024270.2](#), [NP_001019441.2](#)

RefSeq Size: 3530 bp

RefSeq ORF: 3393 bp

Locus ID: 360552

UniProt ID: [Q56B11](#)

Cytogenetics: 10q24

Gene Summary: Coactivator of estrogen receptor-mediated transcription and a corepressor of other nuclear hormone receptors and sequence-specific transcription factors. Plays a role in estrogen receptor (ER) genomic activity when present in the nuclear compartment by activating the ER target genes in a hormonal stimulation dependent manner. Can facilitate ER non-genomic signaling via SRC and PI3K interaction in the cytosol. Plays a role in E2-mediated cell cycle progression by interacting with RB1. May have important functional implications in ER/growth factor cross-talk. Interacts with several growth factor signaling components including EGFR and HRS. Involved in nuclear receptor signaling via its interaction with AR and NR3C1. May promote tumorigenesis via its interaction with and modulation of several oncogenes including SRC, PI3K, STAT3 and EGFR. Plays a role in cancer cell metastasis via its ability to modulate E2-mediated cytoskeleton changes and cell migration via its interaction with SRC and PI3K. Functions as the key stabilizing component of the Five Friends of Methylated CHTOP (5FMC) complex; the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes. Component of the PELP1 complex involved in the nucleolar steps of 28S rRNA maturation and the subsequent nucleoplasmic transit of the pre-60S ribosomal subunit. Regulates pre-60S association of the critical remodeling factor MDN1.[UniProtKB/Swiss-Prot Function]