

## Product datasheet for **MC220842**

### **Pelp1 (BC016444) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pelp1 (BC016444) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pelp1
Synonyms:	RP23-42P20.4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC016444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTCAGGAGGAGCCTCTGGAGAAGCCTTGCTCACCCACCTGCTCAGTGACATCTCCCCTCCAGCTG  
 ATGCTCTTAAGCTATGCAGTACCAGGGGAAGCTCTGATGGAGGTTTGCAAAGTGGGAAGCCAAGTCTCC  
 TAAGAAGCTCAAGCTCGATATGGGGGAAGCTTTGGCTCCACCCAGCCAAAGGAAAGGAGATAGGAATGCC  
 AACAGTGACGTGTGCGCAGCTGCACTGAGAGGCCTCAGTCGGACCATCCTTATGTGCGGGCCTCTCATCA  
 AGGAGGAGACTCACAGGAGACTTCATGATCTAGTCCTGCCCTGGTCATGAGTGTCCAGCAGGGTGAGGT  
 CCCGGGCAGCTCTCCTTACAACAGTTCTGCTGTCGCCTCGGGCTCTACCGCCTGCTGCTGGCTTTATTG  
 CTGGCACCTTCCCCTCGGTGCCCTCCTCCTTTGCTGTGCCCTGAAAGCTTTCTCTTTGGCCAATGGG  
 AAGATAGTCTTGAGGTCTCCTCTTTTGTCTCAGAAGCTCTGGTGACCTGTGCTGCTGACACACCCCG  
 AGTACCTCCTCTACAGAGCTCAGGCCCTGCCTGCCCACTCCTGCCCCCTCCCTCCTCTGAGGCCCA  
 TCTTCATTACAGGCCCGGCCCTTCCATCCTCCAGGCCCATGCCCTCCATAGGTGCTGTGCCATCCACAG  
 GCCATTACCCTCAGCAGGCCCAATCCACAGTAGGCTCTATGGCGTCCACAGGCCAAGTGCCCTCTCG  
 CCCTGGACCTCCAGCAACAGCCAACATTTAGGCCTCTGTGCCAGGCCTGGTATCTGTTCCACCCAGG  
 CTCCTTCTGGCCCTGAAAACACCGTGCAGGCTCCGGTGAGGATCCTGTCTTGTCTCTAGTGGGACCC  
 CTCGCTTAGCATACCTCCAGATGAAACTTTTGGGGGAGAGTACCTAGGCCAGCCTTTGTCCACTACGA  
 TAAGGAGGAGGCATCTGATGTAGAGATCCTTGGAAAGCGACTCTGATGACAGTGTGGTATTGTACCT  
 GAGGGGCTTCCCTCCCTGCCACCTGCACCACCTCAGGCACTCCTCCCCTGCGGCTCCTGCCGGCCAC  
 CAACAGCCTCACCTCTGTGCCAGTAAGGAGGATTCTGAAGAAGTGCCTGCAACCCAGGGCCTCCACC  
 CCCACCCCAACCCCAACCCCAACCGCCTCTGGTCTGTGACACTTCTCCACCCAGTGGTCCCTGAA  
 GGGACTCCTGGAGGGGAGGACCCACAGCCATGGAAGAAGATTTGACAGTTATTAATATCAACAGCAGTG  
 ATGAAGAGGAGGAGGAGGAAGAGGAAGAGGAGGAAGAAGATGAAGATGAGGAAGAAGAAGACTTTGAGGA  
 AGAGGAAGAAGATGAAGAAGAATATTTTGAAGAGGAAGAAGAGGAAGAAGAGTTTGAAGGAGGAAATTTGAG  
 GAGGAAGAAGGTGAATTAGAAGAGGAAGAAGAAGAGGAGGAAGAAGAGTTAGATGAGGTAGAAGATGTGG  
 AGTTTGGTTCAGCAGGGAGGTGGAAGAAGGTGGACCTCCACCCCAACTGCCACCTGCTCTGCCACC  
 TTCAGACTCGCCAAAGTACAGCCTGAGGCAGAACCTGAACCTGGGCTCTTATTGGAAGTTGAGGAGCCA  
 GGGCCAGAGGAGGTGCCTGGGCTGAGACTGCTCTACCTGGCCCTGAAGTGTCCCCTCCCAGGAGG  
 AGGGGGAGCAGGAAGTGGGAAGCCCTGCAGCAGGGCCACCTCAGGAGCTTGTGAAGAGTCTCTGCTCC  
 CCCTGCCCTGCTGGAAGAGGGGACTGAGGTTGAGGTTGACAAAGTGCACCCCAACCGGAGACACCTGCA  
 GAAGAAATGGAGACAGAAGCAGAAGTCCAGCTCCTCAGGAAAAGGAGCAAGATGATACAGCTGCCATGC  
 TGGCTGATTTTCATCGATTGTCCCCTGACGATGAGAAGCCACCACCTGCTACAGAGCCTGACTCGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** BC016444

**Insert Size:** 2028 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:** [BC016444](#), [AAH16444](#)

**RefSeq Size:** 2272 bp

**RefSeq ORF:** 2027 bp

**Locus ID:** 75273

**Cytogenetics:** 11 B3

**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 (By similarity). 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 (PubMed:22872859). 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 (By similarity). [UniProtKB/Swiss-Prot Function]