

Product datasheet for **MC223651**

Pelp1 (NM_029231) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pelp1 (NM_029231) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pelp1
Synonyms:	4930563C04Rik; MNAR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223651 representing NM_029231 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCCGTTCTTAGTGGGGCTCTGCGGGCTCCCAGCTGGGGCTCTGGCGGGCCGGGGTCT
TCTCTGCGGTGGATCCGGCCCGCTCTGCGTCTGCTGCTGTTAGAGAGCATTCCGGGTGTTACAGCC
GCGAACGGCGTCCCCGTGGCCCTGTGCATCCCCAATCCAGTGGGCCCGCATTTCGCCGGGCTCATG
TGCTTATTGAGGCTGCATGGGACGGCAGGTGGGGCGCAGAATCTTTCAGCTCTTGGGGCATTGGTGAATC
TCAGTAATGCACATCTTGCTCCATCAAACTCGGTTTGAAGGCCTGTGTCTGCTGCTCTTGTGATAGG
GGAGAGCCCCACAGAGTTATTCCAGCAACATTGTGTTTCTTGCTTCGGAGCATCCAGCAGGTGCTGCAG
TCTCAGGACTCACCGTCCACCATGGAGCTGGCTGTGGCTGCTGAGGGATCTGCTCCGACATGCATCCC
AGCTTCTACCTGTTTCGGGACATCTCCACCAACCACCTTCTGGGCTTCTTACTTCTTGCTGGGCT
CAGACCAGAGTGTGAACAATCAGCTTTGGAGGGAATGAAGGCTTGTGTGACCTATTTTCTCGGGCTGT
GGCTCTCTAAAAGGAAAGCTGGCTTCTTTTTCTGTCTCGATTGGATTCCCTGAACCCTCAGCTCCAAC
AGTAGGCTGGGAACAGGAGCTGCACAGCCTGTGACCTACTGCACAGCTTACTGGGTCCCTGTTTGAG
GAAACAGAGCCTGCTCCTGTGCAGAGTGAAGGCCCTGGAATAGAGATGCTGCTTCCCACTCAGAAGATG
GTAACACCATGTCTCCTCCAGCTTCGGCAGAGGTTTTTCAGGCCTGGCCGTTGCTGGGGCTCATGCT
CAGCTCTGAGTTTGGGGCTCCTGTGTCGTTTCTGTGCAGGAAATCCTGGACCTCATCTGCCGATCCTT
GGTATCAGTAGCAAGAATATTAACCTGCTTGGAGATGGTCCCCTCAGGTTGCTGCTGCTGCTTCTCTGC
ACCTTGAGGCTTGACTTGCTCTGCGCTGATCCTTGGCTGTGGAAGTCGACTTTTGCCTTTTGGTGC
CCTGATCAGCCGGCTGCTTCCCCAGTTCTCAATGCCTGGAGCACTGGGAGGATACTTAGCTCCAGGC
CAGGAGAGGCCTTACAGCACCATTTCGGACCAAAGTGTATGCTATCTTAGAGCTATGGGTGCAGGTTTGTG
GGGCTCAGCAGGTATGCTTTCAGGGAGGAGCCTCTGGAGAAGCCTTGTACCCACCTGCTCAGTGACAT
CTCCCCTCCAGCTGATGCTTAAAGTATGCAGTACCAGGGGAAGCTCTGATGGAGGTTTCAAAGTGGG
AAGCAAGTGCTCCTAAGAAGCTCAAGCTCGATATGGGGGAAGCTTTGGCTCCACCCAGCCAAAGGAAAG



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GAGATAGGAATGCCAACAGTGACGTGTGCGCAGCTGCACTGAGAGGCCTCAGTCGGACCATCCTTATGTG
 CGGGCCTCTCATCAAGGAGGAGACTCACAGGAGACTTCATGATCTAGTCCTGCCCTGGTCATGAGTGTC
 CAGCAGGGTGAGGTCTGGGCAGCTCTCCTTACAACAGTTCTGTGTGCGCTCGGGCTCTACCGCCTGC
 TGCTGGCTTTATTGCTGGCACCTTCCCCCGGTGCCCTCCTCCTTGTGCTGTCGCTGAAAGCTTTCTC
 TCTTGGCCAATGGGAAGATAGTCTTGAGGTCTCCTCTTTTGTCTCAGAAGCTCTGGTGACCTGTGCTGCT
 CTGACACACCCCCGAGTACCTCCTACAGAGCTCAGGCCCTGCCTGCCCCACTCCTGCCCCGTCCTC
 CTCTGAGGCCCATCTTCATTACGGGCCCGGCCTTCCATCCTCCAGGCCCATGCCCTCCATAGGTGC
 TGTGCCATCCACAGGCCATTACCTCAGCAGGCCCATTCCACAGTAGGCTCTATGGCGTCCACAGGC
 CAAGTGCCCTCTCGCCCTGGACCTCCAGCAACAGCCAACCATTTAGGCCTCTCTGTCCAGGCCTGGTAT
 CTGTTCCACCCAGGCTCCTTCTGGCCCTGAAAACCACCGTGCAGGCTCCGGTGAGGATCTGTCTTTCG
 TCCTAGTGGGACCCCTCCGCTAGCATACTCCAGATGAACTTTTGGGGGAGAGTACCTAGGCCAGCC
 TTTGTCCACTACGATAAGGAGGAGGCATCTGATGTAGAGATCTCCTTGGAAAGCGACTCTGATGACAGTG
 TGGTGATTGTACCTGAGGGGCTTCCCTCCCTGCCACCTGCACCACCTCAGGCACTCCTCCCCCTGCGGC
 TCCTGCCGGCCCAACAGCCTCACCTCCTGTGCCAGCTAAGGAGGATTCTGAAGAAGTGCCTGCAACC
 CCAGGGCCTCCACCCCAACCCCAACCCCAACCCCAACCCCAACCCGCTCTGGTCTGTGACACTTCTCCACCC
 AGCTGGTCCCTGAAGGGACTCCTGGAGGGGAGGACCCACAGCCATGGAAGAAGATTTGACAGTTATTAA
 TATCAACAGCAGTGATGAAGAGGAGGAGGAGGAAGAGGAAGAGGAGGAAGAAGATGAAGATGAGGAAGAA
 GAAGACTTTGAGGAAGAGGAAGAAGATGAAGAAGAATATTTTGAAGAGGAAGAAGAGGAAGAAGAGTTT
 AGGAGGAATTTGAGGAGGAAGAAGTGAATTAGAAGAGGAAGAAGAAGAGGAGGAAGAAGAGTTAGATGA
 GGTAGAAGATGTGGAGTTTGGTTTTCAGCAGGGGAGGTGGAAGAAGTGGACCTCCACCCCAACACTGCCA
 CCTGCTCTGCCACCTTACAGACTCGCCAAAGTACAGCCTGAGGCAGAACCTGAACCTGGGCTCTTATTGG
 AAGTTGAGGAGCCAGGGCCAGAGGAGGTGCTGGCCCTGAGACTGCTCCTACCCTGGCCCTGAAGTGCT
 CCCCTCCAGGAGGAGGGGAGCAGGAAGTGGAAAGCCCTGCAGCAGGGCCACCTCAGGAGCTTGTGAA
 GAGTCTCTGCTCCCCCTGCCCTGCTGGAAGAGGGGACTGAGGGTGGAGGTGACAAAGTGCCACCCCCAC
 CGGAGACCTGCAGAAGAAATGGAGACAGAAGCAGAAGTTCCAGCTCCTCAGGAAAAGGAGCAAGATGA
 TACAGCTGCCATGCTGGCTGATTCATCGATTGTCCCCCTGACGATGAGAAGCCACCACCTGCTACAGAG
 CCTGACTCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_029231

Insert Size:

3372 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_029231.4](#), [NP_083507.3](#)

RefSeq Size: 3463 bp

RefSeq ORF: 3372 bp

Locus ID: 75273

UniProt ID: [Q9DBD5](#)

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]