

Product datasheet for **MR209953**

Pelp1 (BC016444) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR209953 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTTCAGGAGGAGCCTCTGGAGAAGCCTTGCTCACCCACCTGCTCAGTGACATCTCCCCTCCAGCTG
ATGCTCTTAAGCTATGCAGTACCAGGGGAAGCTCTGATGGAGGTTTGCAAAGTGGGAAGCCAAGTCTCC
TAAGAAGCTCAAGCTCGATATGGGGGAAGCTTTGGCTCCACCCAGCCAAAAGGAAAGGAGATAGGAATGCC
AACAGTGACGTGTGCGCAGCTGCACTGAGAGGCCTCAGTCGGACCATCCTTATGTGCGGGCCTCTCATCA
AGGAGGAGACTCACAGGAGACTTCATGATCTAGTCCTGCCCTGGTCATGAGTGTCCAGCAGGGTGAAGT
CCCGGGCAGCTCTCCTTACAACAGTTCTGCTGTCGCCTCGGGCTCTACCGCCTGCTGCTGGCTTTATTG
CTGGCACCTTCCCCTCGGTGCCCTCCTCCTTTGCTGTGCCCTGAAAGCTTTCTCTTTGGCCAATGGG
AAGATAGTCTTGAGGTCTCCTCTTTTTGCTCAGAAGCTCTGGTGACCTGTGCTGCTGACACACCCCCG
AGTACCTCCTCTACAGAGCTCAGGCCCTGCCTGCCCCACTCCTGCCCCCTCCCTCCTCTGAGGCCCA
TCTTCATTACAGGCCCCCGCCTTCCATCCTCCAGGCCCATGCCCTCCATAGGTGCTGTGCCATCCACAG
GCCATTACCTCAGCAGGCCCAATCCACAGTAGGCTCTATGGCGTCCACAGGCCAAGTGCCCTCTCG
CCCTGGACCTCCAGCAACAGCCAACATTTAGGCCTCTCTGTCCAGGCCTGGTATCTGTTCCACCCAGG
CTCCTTCTGGCCCTGAAAACACCGTGCAGGCTCCGGTGAGGATCCTGTCTTGTCTCTAGTGGGACCC
CTCCGCCTAGCATACCTCCAGATGAAACTTTTGGGGGAGAGTACCTAGGCCAGCCTTTGTCCACTACGA
TAAGGAGGAGGCATCTGATGTAGAGATCCTTGGAAAGCGACTCTGATGACAGTGTGGTGAATGTACCT
GAGGGGCTTCCCTCCCTGCCACCTGCACCACCTCAGGCACTCCTCCCTGCGGCTCCTGCCGGCCAC
CAACAGCCTCACCTCCTGTGCCAGCTAAGGAGGATTCTGAAGAAGTGCCTGCAACCCAGGGCCTCCACC
CCACCCCCACCCCAACCCCAACCGCCTCTGGTCTGTGACACTTCTCCACCCAGCTGGTCCCTGAA
GGACTCCTGGAGGGGAGGACCCACAGCCATGGAAGAAGATTTGACAGTTATTAATATCAACAGCAGTG
ATGAAGAGGAGGAGGAGGAAGAGGAAGAGGAGGAAGAAGATGAAGATGAGGAAGAAGAAGACTTTGAGGA
AGAGGAAGAAGATGAAGAAGAATATTTTGAAGAGGAAGAAGAGGAAGAAGAGTTTGAAGGAGGAAATTTGAG
GAGGAAGAAGGTGAATTAAGAAGGAAGAAGAAGAGGAGGAAGAAGAGTTAGATGAGGTAGAAGATGTGG
AGTTTGGTTCAGCAGGGGAGGTGGAAGAAGGTGGACCTCCACCCCAACACTGCCACCTGCTCTGCCACC
TTCAGACTCGCCAAAGTACAGCCTGAGGCAGAACCTGAACCTGGGCTCTTATTGGAAGTTGAGGAGCCA
GGCCAGAGGAGGTGCCTGGGCCTGAGACTGCTCCTACCTGGCCCTGAAGTGTCCCCTCCCAGGAGG
AGGGGGAGCAGGAAGTGGGAAGCCCTGCAGCAGGGCCACCTCAGGAGCTTGTGAAGAGTCTCTGCTCC
CCCTGCCCTGCTGGAAGAGGGGACTGAGGTGGAGGTGACAAAAGTGCACCCCAACCGGAGACACCTGCA
GAAGAAATGGAGACAGAAGCAGAAGTCCAGCTCCTCAGGAAAAGGAGCAAGATGATACAGCTGCCATGC
TGCTGATTTTCATCGATTGTCCCCTGACGATGAGAAGCCACCACCTGCTACAGAGCCTGACTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209953 protein sequence
Red=Cloning site Green=Tags(s)

```

MLQGGASGEALLTHLLSDISPPADALKLCSTRGSSDGGGLQSGKPSAPKKLKLDMGEALAPPSQRKGDNRN
NSDVCAALRGLSRTLILMCGPLIKEETHRRLHDLVPLVMSVQQGEVPGSSPYNSSCCRLGLYRLLALL
LAPSPRCPPPLACALKAFSLGQWEDSLEVSSFCSEALVTCALTHPRVPLQSSGPACPTPAPVPPPEAP
SSFRAPAFHPPGMPPSIGAVPSTGWLPSAGPIPTVGSMASTGQVPSRPGPPATANHLGLSVPGLVSVPPR
LLPGPENHRAGSGEDPVLAPSGTPPPSIPPDETFGGRVPRPAFVHYDKEEASDVEISLESDDSVVIVP
EGLPSLPPAPPSGTPPPAAPAGPPTASPPVPAKEDSEELPATPGPPPPPPPPPPASGPVTLPPPQLVPE
GTPGGGGPTAMEEDLTVININSSDEEEEEEEEEEEDEEEEEDEEEEEDEEEYEEEEEEEEEEEEFE
EEEEEEEEEEEEELDEVEDVEFGSAGEVEEGPPPPTLPPALPPSDSPKVQPEAEPEGLLLEVEEP
GPEEVPGPETAPTLAPEVLSQEEGEQEVGSPAAGPPQELVEESSAPPALLEEGTEGGDKVPPPPETPA
EEMETAEVPAPQEKEQDDTAAMLADFIDCPPDDEKPPPAPEPDS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC016444

ORF Size: 2025 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.

RefSeq: [BC016444](#), [AAH16444](#)

RefSeq Size: 2272 bp

RefSeq ORF: 2027 bp

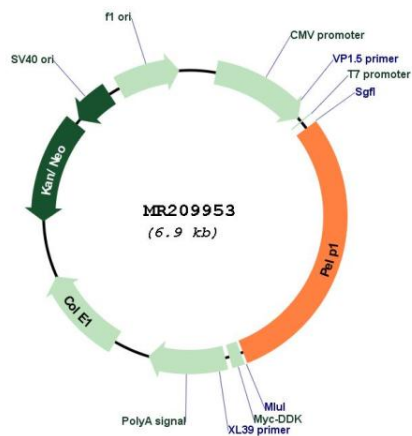
Locus ID: 75273

Cytogenetics: 11 B3

MW: 70.4 kDa

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]

Product images:



Circular map for MR209953