

Product datasheet for MR216109

Pelp1 (NM_029231) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pelp1 (NM_029231) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pelp1
Synonyms:	4930563C04Rik; MNAR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR216109 representing NM_029231 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCCGTTCTTAGTGGGGCTCTGCGGGCTCCCAGCTGGGGCTCTGGCGGGCCGGGGTCT
TCTCTGCGGTGGATCCGGCCCGCTCTGCGTCTGCTGCTGTTAGAGAGCATTCCGGGTGTTACAGCC
GCGAACGGCGTCCCCGTGGCCCTGTGCATCCCCAATCCAGTGGGCCCGCATTGGCCGGGCTCATG
TGCTTATTGAGGCTGCATGGGACGGCAGGTGGGGCGCAGAATCTTTCAGCTCTTGGGGCATTGGTGAATC
TCAGTAATGCACATCTTGCTCCATCAAACTCGGTTTGAAGGCCTGTGTCTGCTGCTCTTGTGATAGG
GGAGAGCCCCACAGAGTTATTCCAGCAACATTGTGTTTCTTGCTTCCGAGCATCCAGCAGGTGCTGCAG
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AGCTTCTACCTGTTTCGGGACATCTCCACCAACCACCTTCTGGGCTTCTTACTTCTTGCTGGGCT
CAGACCAGAGTGTGAACAATCAGCTTTGGAGGGAATGAAGGCTTGTGTGACCTATTTTCTCGGGCTGT
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GGTATCAGTAGCAAGAATATTAAGTGTGGAGATGGTCCCCTCAGGTTGCTGCTGCTGCTTCTCTGC
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CTCCCCTCCAGCTGATGCTTAAAGTATGCAGTACCAGGGGAAGCTCTGATGGAGGTTTCAAAGTGGG
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GAGATAGGAATGCCAACAGTGACGTGTGCGCAGCTGCACTGAGAGGCCTCAGTCGGACCATCCTTATGTG
 CGGGCCTCTCATCAAGGAGGAGACTCACAGGAGACTTCATGATCTAGTCCTGCCCTGGTCATGAGTGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216109 representing NM_029231
 Red=Cloning site Green=Tags(s)

MAAAVL SGASAGSPAGAPGGPGGL SAVGSGPRLRL LLLLESISGLLQPRTASPVAPVHPPIQWAPHL PGLM
 CLLRLHGTAGGAQNL SALGALVNL SNAHLSIKTRFEGLCLLSLLIGESPTFLFQQHCVSWLRSIQVQLQ
 SQDSPSTMELAVAVLRDLLRHASQLPTLFRDINSTNHL PGLLSLLGLRPECEQSALEGMKACVTYFPRAC
 GSLKGLASFFLSRLDSLNPQLQLLACECYSRLPSL GAGFSQGLKHTENWEQELHSLLSLHSLLGSLFE
 ETEPAPVQSEPGIEMLLSHSEDGNTHVLLQLRQRF SGLARCLGLMLSSEFGAPVSVPVQEI LLDLICRIL
 GISSKNINLLGDGPLRL LLLPSLHLEALDLLSALILACGSRLRFGALISRLLPQVLNAWSTGRD TLAPG
 QERPYSTIRTKVYAI LELWVQVCGASAGMLQGGASGEALLTHLLSDISPPADALKLCSTRGSSDGG LQSG
 KPSAPKKLKLDMGEALAPPSQRKGNANS DVCAAALRGLSRTILMCGPLIKEETHRRL HDLVLPLVMSV
 QQGEVLGSSPYNSSCCRLGLYRLLLALLLAPSPRCPPPLACALKAFSLGQWEDSLEVSFCSEALVTCAA
 LTHPRVPLQSSGPACPTAPVPPPPEAPSSFRAPAFHPPGMPMSIGAVPSTGPLPSAGPIPTVGSMASTG
 QVPSRPGPPATANHLGLSVPGLVSVPPRLLPGPENHRAGSGEDPVLAPSGTPPPSIPPDETFGGRVPRPA
 FVHYDKEEASDVEISLESDDSVVIVPEGLPSLPPAPPSGTPPPAAPAGPPTASPPVPAKEDSEELPAT
 PGPPPPPPPPPPASGPVTLPPPQLVPEGTPGGGPTAMEEDLTVININSDEEEEEEEEEEEDEDEEE
 EDFEEEEEEDEEYEEEEEEEEEFEEEEEEEEGELEEEEEEEEEELDEVEDVEFGSAGEVEEGPPPTLP
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 PDS

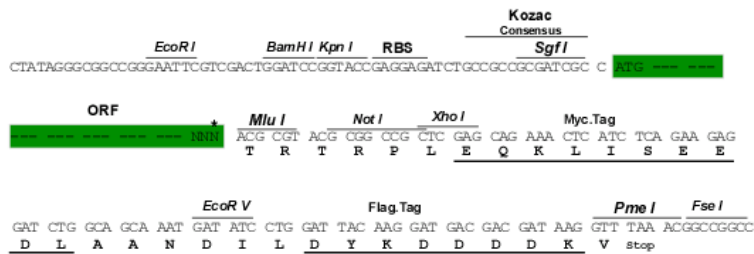
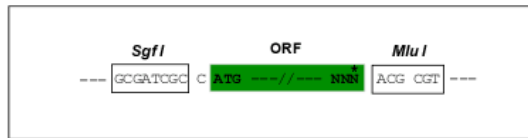
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

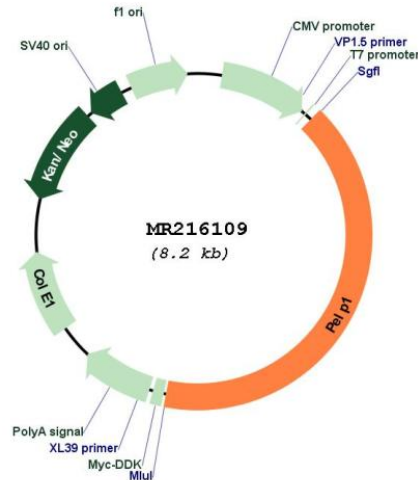
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_029231

ORF Size: 3369 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: [NM_029231.4](#), [NP_083507.3](#)

RefSeq Size: 3463 bp

RefSeq ORF: 3372 bp

Locus ID: 75273

UniProt ID: [Q9DBD5](#)

Cytogenetics: 11 B3

MW: 118.5 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]