

Product datasheet for MR231506

Pear1 (NM_001032414) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pear1 (NM_001032414) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pear1
Synonyms:	3110045G13Rik; Jedi-1; Megf12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231506 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCCACTTTGTCCCTCCTCCTGCGCCCTAGGCCTGCGTCTGACTGGGACACTCAACTCCAATGATC
CCAATGTCTGTACCTTTGGGAAAGCTTACCACGACCACTAAGGAGTCCCACCTGCGCCCTTCAGCCT
GCTCCCAGCTGAGTCTGCCACAGGCCCTGGGAGGACCCACACCTGTGCCAGCCTACGGTTGTCTAC
CGGACTGTGTACCGTCAAGTGGTGAAGATGGACTCCCGCCACGCTGCAGTGTGTAGGGTTACTACG
AGAGCAGAGGGGCTGTGTCCACTCTGTGCCAGGAGTGTCCATGGTCGCTGTGTGGCTCCGAATCA
GTGCCAGTGTGCACCAGGCTGGCGGGTGGCGACTGCTCCAGCGAGTGTGCCCGGGAATGTGGGACCA
CAGTGTGACAAGTTCTGCCACTGTGGCAACAACAGTTCCTGTGATCCCAAGAGTGGGACGTGCTTTTGC
CCTCTGGCCTGCAGCCCCCAACTGCCTTCAGCCCTGCCCTGCCGGCCACTATGGTCTCGCTGCCAGTT
TGATTGCCAGTGTATGGGGCATCCTGTGACCCCCAGGATGGAGCCTGTTTCTGCCCTCCAGGGAGAGCA
GGACCCAGCTGTAATGTGCCCTGTTACAGGGCACTGATGGCTTCTTCTGCCCCAGAACCTATCCTTGCC
AAAATGGAGGTGTTCTCAGGGCTCCCAAGGCTCCTGCAGCTGCCACCGGGCTGGATGGGTGTCAATTTG
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CTCTGTGACAGGTTTACTGGGCACTGCCACTGTGCTCCTGGCTATATCGGGGATCGGTGCCAAGAAGAGT
GCCCGTGGGCGCCTTCGGTCAAGACTGTGCTGAGACCTGTGACTGTGCTCCTGGCGCCCTTGCTTTCC
TGCTAATGGCGCGTGTCTGTGTGAACATGGCTTACAGGCGACCGCTGCACTGAGCGCCTCTGTCCGGAT
GGCCGCTATGGTCTGAGCTGCCAGGAGCCCTGCACCTGCGACCCAGAACACAGTCTCAGCTGCCACCCGA
TGCACGGCGAGTGTCTGCCAGCCAGGTTGGCGGGCTCCACTGCAACGAGAGCTGCCCTCAGGACAC
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TGCCGGTGCAGCGGGATACACGGGACCTCACTGCGCTAACCTATGTCCACCGGACACTACGGGATCA
ACTGTTCTCCCGTGTCTGTGAAAATGCCATTGCCTGCTCTCCATCGACGGCAGTGCATCTGCAA
GGAAGTTGGCAGCGTGGTAAGTCTGTTCCCTGTCCCTTGGCACCTGGGGCTCAATTGCAATGCC



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AGTTGCCAGTGTGCCACGACGGAGTCTGCAGCCCCAACTGGAGCCTGTACTTGCACCCCTGGGTGGC
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 CCCTTGAGCCATAATGAAGAGTCTTTGGGCTCCACGCCCCGCTTCTCCAGGCCTGCCTCTGGTCACT
 ACGACTCCCCAAGAACAGCCATATCCCTGGACACTATGACTTGCCTCCAGTACGGCATCTCCATCCCC
 TCCATCCCGGCGCCAGGACCGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231506 protein sequence
 Red=Cloning site Green=Tags(s)

MPLCPLLLLALGLRLTGLNSNDPNVCTFESFTTTTKESHLRPFSLPAESCHRPWEDPHTCAQPTVVY
 RTVYRQVVKMDSRPLQCCRGYYESRGACVPLCAQEVCVHGRCVAPNQCQCAPGWRGGDCSSECAPGMWGP
 QCDKFCHCGNNSCDPKSGTFCPSGLQPPNCLQPCPAGHYGPACQFDCQCYGASCDPQDGAFCPPGRA
 GPSCNVPCSQGTDFGFCPRTPYPCQNGGVPQGSQGSQSCPPGWMGVI CSLPCPEGFHGPNTQECRCHNGG
 LCDRFTGQCHCAPGYIGDRCQECPVGRFGQDCAETDCAPGARCFPANGACLCEHGFTGDRCTERLCPD
 GRYGLSQEPCTCDPEHSLSCHPMHGECSQPGWAGLHCNESCQDTHGPGCQEHLCLHGGGLCLADSL
 CRCAPGYTGPHCANLCPDPTYGINCSSRCSCEAIAICSPIDGTICKEGWQRGNCSVPCPLGTWGFNCNA
 SCQCAHDGVCSPQTGACTCTPGWHGAHQQLPCPKGQFGECAVCDCHSDGCDPVHGCRCQAGWMGTR
 CHLPCPEGFWGANCSNTCTCKNGGTCVSENGNCVAPGFRGSPQRPCCPPGRYGRVQCCKNNHSSCH
 PSDGTCSLAGWTGPDCEACPPGHWGLKCSQLCQCHGGTCHPQDQSGICTPGWTGPNCLGECPPRMFG
 VNCSQLCQCDLGMCHPETGACVPPGHSADCKMGSQESFTIMPTSPVTHNSLGAIVIGI AVLGLVVAL
 IALFIGYRQWQKGEHEHLAVAYSTGRLDGSDYVMPDVSPSYSHYSSNPSYHTLSQCSNPPPPNKVPGS
 QLFVSSQAPERPSRAHGRENHVTLPADWKHRRPHERGASHLDRSYSCSYSHRNGPFPCHKGPISSEGL
 GASVMSLSSENPYATIRDPLSLPGEPRESGYVEMKGPPSVSPRQSLHLRDRQQRQLQPQRDSGTYEQPS
 PLSHNEESLSTPPLPPGLPPGHYDSPKNSHIPGHYDLPPVRHPPSPSRRQDR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001032414

ORF Size: 3102 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_001032414.1](#), [NP_001027586.1](#)

RefSeq Size: 4297 bp

RefSeq ORF: 3105 bp

Locus ID: 73182

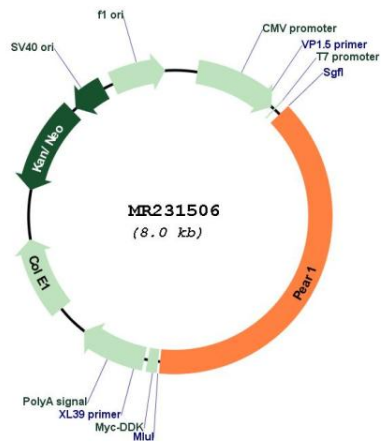
UniProt ID: Q8VIK5

Cytogenetics: 3 F1

MW: 110.6 kDa

Gene Summary: When overexpressed, reduces the number of both early and late non-adherent myeloid progenitor cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231506