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Product datasheet for RR200114

Plod2 (NM_175869) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plod2 (NM_175869) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plod2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR200114 representing NM_175869
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACCGCGGAGTGAGGCTGGGGCTGCTGATGCCCATGCTCGCCCTGCTCTCCTGGGCGGCTAGCC
TGGGCGTAGCGGAGGAGACTCCCTCGCGCATCCCAGCAGATAAGTTATTAGTCATAACTGTAGCAACCAA
AGAAAACGATGGATTCCACAGATTTATGAATTCAGCCAAGTATTTCAATTATACTGTGAAGGTTCTTGGT
CAAGGGCAAGAGTGGAGAGGTGGTGATGGGATGAACAGTATTGGAGGGGGCCAGAAGGTGAGATTAATGA
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GATGCGCTGTTGTGGCCAGATAAGCGGCTGGCAGACAAGTATCCTGGTGTGCACATTGGGAAACGCTACC
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AAAATGGTAAAAGCAGAGTGAAGAATACATTTTATGAAACACTGCCAGTGGCCATCAATGGGAATGGGCC
CACCAAAATTCTCTTGAATTACTTTGGAAACTATGTTCCAAATTCATGGACACAGGAAAATGGCTGTGCT
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ACTTCGACTCTTTGTCCATAATAAAGAAGTTTATCATGAAAAGGACATCAAAGCGTTTGTTGATAAAGCT
AAACACGACATCAGCTCTATAAAAATAGTAGGACCAGAGGAAAATCTAAGTCAAGCGGAAGCCAGAAACA
TGGGAATGGATTTCTGCCGTCAGGATGAAAAGTGTGATTACTACTTTAGTGTGGATGCAGATGTTGTTTT
GACAAACCCAAGAACTTTAAAAATTTTGATTGAACAAAACAGGAAGATCATTGCCCCTCTTGTGACACGT
CATGGAAAGTTGTGGTCCAACTTCTGGGGAGCCCTGAGTCCTGATGGATACTATGCTCGTTCTGAAGATT
ACGTAGATATCGTTCAGGGAAACAGAGTAGGAATATGGAATGTCCCATACATGGCTAATGTGTACTTAAT
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ATGTCTCTCTGCCGCAATGCTCGAGACATGACCTTACAAAGGGAAAAAGACTCCCCCACTCCGGAAACAT
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CGGCAAGTGGTCCGGGGGAAAGCATCATGACAGCCGTATATCTGGTGGCTATGAAAATGTCCCAACGGAT
GACATTCATATGAAGCAGATTGACCTGGAGAACGTCTGGCTTCACTTTATCCGAGAGTTTATCGCTCCAG
TTACCCTGAAGGTCTTCGCGGGATATTACACCAAGGGATTTGCCCTGCTGAACTTCGTAGTGAAGTACTC
GCCCGAAAGACAGCGCTCGCTCCGGCCTCACCACGATGCGTCAACCTTCACCATCAACATTGCTCTAAAT
AATGTAGGAGAGGATTTTCAGGGAGGTGGATGCAAATTCCTAAGGTATAATTGCTCCATCGAATCCCCCC
GAAAAGGCTGGAGCTTCATGCATCCTGGGAGGCTTACTCATCTACACGAAGGGCTTCCTGTCAAAAATGG
AACAAGATACATTGCAGTCTCATTTATCGATCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

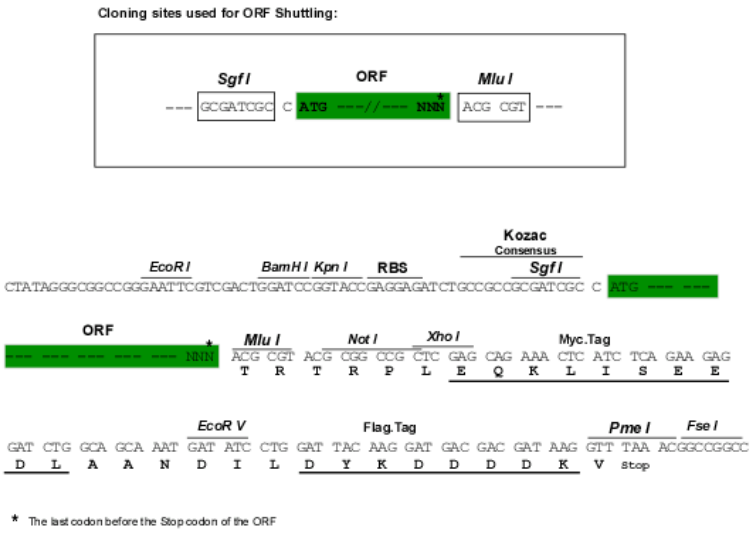
>RR200114 representing NM_175869
Red=Cloning site Green=Tags(s)

MGDRGVRLGLLMPMLALLSWAASLGVAEETPSRIPADKLLVITVATKENDGFHRFMNSAKYFNYTVKVLG
QGQEWRGGDGMNSIGGGQKVRLMKEAMEHYAGQDDLVILFTECFDVIFAGGPEELLKKFQKTNHKIVFAA
DALLWPDKRLADKYPGVHIGKRYLNSGGFIGYAPYISRLVQQWDLQDNDDDQLFYTKVYIDPLKREALNI
TLDHRCKIFQALNGATDEVVLKFENGKSRVKNTFYETLPVAINGNGPTKILLNYFGNYVPNSWTQENGCA
LCDFDTIDLSTVDVYPKVTLGVFIEQPTPFLPRFLDLLLTLDYPKEALRLFVHNKEVYHEKDIKAFVDKA
KHDISSIKIVGPEENLSQAEARNMGMDFCRQDEKCDYYFSVDADVVLTNPRTLKILIEQNRKIIAPLVTR
HGKLWSNFWGALSPDGYYARSEDYVDIVQGNRVGIWNVPYMANVYLIQGKTLRSEMSERNYFVRDKLDPD
MSLCRNARDMTLQREKDSPTPETFQMLSPPKGVFMYISNRHEFGRLISTANYNTSHLNNDLWQIFENPVD
WKEKYINRDYSKIFTENIVEQPCPDVFWFPIFSERACDELVEEMEHYGKWSGGKHHDSRISGGYENVPTD
DIHMKQIDLENVWLHFIREFIAPVTLKVFAGYYTKGFALLNFVVKYSPERQRSLRPHHDASTFTINIALN
NVGEDFQGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHEGLPVKNGTRYIAVSFIDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175869

ORF Size: 2274 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_175869.3, NP_787065.2

RefSeq Size: 3672 bp

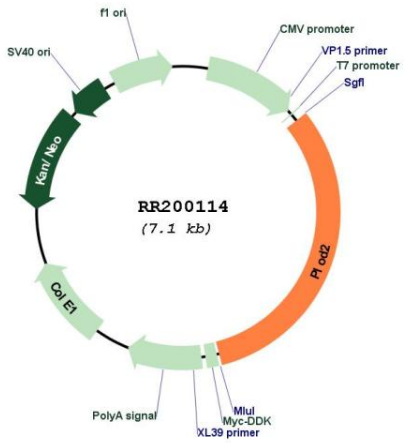
RefSeq ORF: 2277 bp

Locus ID: 300901

Cytogenetics: 8q31

MW: 87 kDa

Product images:



Circular map for RR200114