

Product datasheet for MR220724

Pa2g4 (NM_011119) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pa2g4 (NM_011119) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pa2g4
Synonyms: 38kDa; AA672939; Ebp1; Plfap
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220724 representing NM_011119
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGCGAAGACGAGCAGCAGGAGCAAATATCGCCGAGGACCTGGTCGTGACCAAGTATAAGATGG
 GGGGCGACATCGCCAACCGGGTCTTCGATCTTTGGTGGAGGCTTCCAGCTCAGGTGTGTCTGTCTGAG
 CTTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAGACAGGGAAGATCTCAAGAAGGAAAAGGAGATG
 AAGAAAGGTATTGCCTTCTACCAGCATTCCGTAATAACTGTGTGTCTCACTTCTCCCTTTGAAGA
 GTGACCAGGACTATATACTCAAGGAAGGTGACTTGGTAAAAATTGACCTGGGGTTCATGTGGATGGCTT
 CATTGCCAATGTGGCTCACACTTTTGAATTGGTGTAGCTCAGGGGACCCAGGTAACAGGGCGAAAGCA
 GATGTCATTAAGGCCGCTCACCTATGTGCTGAAGCTGCCTTACGACTGGTCAAACCTGAAACCAGAACA
 CACAAGTGACTGAAGCATGGAACAAGGTTGCTCACTCATTTAACTGCACACCAATAGAAGGTATGCTGTC
 ACACCAATTGAAGCAGCATGTGATTGATGGAGAGAAGACGATTATCCAGAACCCTACAGACCAGCAGAAG
 AAGGACCATGAAAAGGCAGAATTTGAGGTGCATGAGGTTTATGCTGTAGATGTCTCGTCAGCTCAGGAG
 AAGGCAAGGCCAAAGATGCAGGACAGAGAACCACCATCTACAAGCGAGACCCCTTAAACAATATGGCCT
 GAAAATGAAAACCTCACGTGCCTTTTTCAGTGAGGTGGAACGGCGTTTTGATGCCATGCCGTTTACTTTA
 AGAGCATTTGAAGATGAGAAGAAGGCTCGAATGGGTGTGGTAGAGTGCCAAACATGAGTTACTACAG
 CATTAAACGTTCTCTATGAGAAGGAGGGTGAATTTGTTGCCAGTTTAAATTTACAGTTCTACTCATGCC
 CAACGGCCCCATGCGGATAACCAGTGGTCCCTTTGAGCCTGACCTGTACAAGCTGAGATGGAGGTTCAA
 GATGCAGAGCTGAAGGCTCTTCTCCAGAGTTCTGCAAGTAGAAAAACCCAGAAAAAGAAGAAAAAGAAGG
 CCTCCAAGACTGTAGAGAATGCCACCAGTGAGAAAACCTTAGAAGAGAATGGAGCTGGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220724 representing NM_011119
 Red=Cloning site Green=Tags(s)

MSGEDEQQEQTIAEDLVVTKYKMGGDIANRVLRLSLVEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEM
 KKGIAFPTSISVNNVCVCHFSPKSDQDYILKEGDLVKIDLGVHVDGFIANVAHTFVIGVAQGTQVTGRKA
 DVIKAAHLCAEALRLVKPGNQNTQVTEAWNKVVAHSFNCTPIEGMLSHQLKQHVIDGEKTIIQNPTDQQK
 KDHEKAEFEVHEVYAVDVLVSSGEGKAKDAGQRTTIYKRDPKQYGLKMKTSRAFFSEVERRFDAMPFTL
 RAFEDEKKARMGVVECAKHELLQPFNVLYEKEGEFVAQFKFTVLLMPNGPMRITSGPFEPDLYKSEMEVQ
 DAELKALLQSSASRKTQKKKKKASKTVENATSGETLEENGAGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011119

ORF Size: 1182 bp

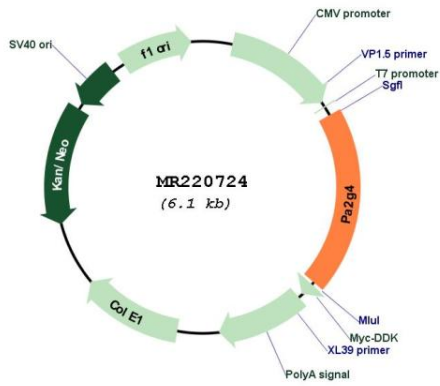
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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:	<u>NM_011119.3, NP_035249.1</u>
RefSeq Size:	2432 bp
RefSeq ORF:	1185 bp
Locus ID:	18813
UniProt ID:	<u>P50580</u>
Cytogenetics:	10 D3
MW:	44.1 kDa
Gene Summary:	May play a role in a ERBB3-regulated signal transduction pathway. Seems be involved in growth regulation. Acts a corepressor of the androgen receptor (AR) and is regulated by the ERBB3 ligand neuregulin-1/herregulin (HRG). Inhibits transcription of some E2F1-regulated promoters, probably by recruiting histone acetylase (HAT) activity. Binds RNA. Associates with 28S, 18S and 5.8S mature rRNAs, several rRNA precursors and probably U3 small nucleolar RNA. May be involved in regulation of intermediate and late steps of rRNA processing. May be involved in ribosome assembly (By similarity). Mediates cap-independent translation of specific viral IRESs (internal ribosomal entry site). Together with PTBP1 is required for the translation initiation on the foot-and-mouth disease virus (FMDV) IRES. Regulates cell proliferation, differentiation, and survival. Isoform 1 suppresses apoptosis whereas isoform 2 promotes cell differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220724