

Product datasheet for **MR206009**

Phax (NM_019996) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Phax
Synonyms:	2810055C14Rik; 4933427L19Rik; AU018701; AU018854; D18Ert65e; p55; Rnuxa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR206009 representing NM_019996
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGGAAGCTGGCGACATGGAAGAGGGGCAGCTTCCGACTCGGATCCGACATGACGGTCGTCC
CCAGCGATAGGCCCTCTGCAAAATGGCGAAAGTCCTAGGTGGGGGCAGCGCTGCGTGCGCACCGGTGTCA
TTATCGGACTGTAAACATGTGGACTCCAGCGAGGAGAGTCTAGATTCCGATGACGATTGCTCTCTTTGG
AAACGCAAGCGACAGAAGTGTCAATACTCCTCCCAAGCCAGAGCCTTTCCATTGGACCAAGTGGTC
AGAAAACGGCTCTCAACGAGGAAAGAAAGGTGAACAACATCTGGGGCGCGGTGCTCCAGGAACAGAATCA
AGATGCGGTGGCCACTGAACTCGGCATCTTGGGAATGGAAGGCTCCATTGACAGAAGCAGGCAGTCTGAG
ACCTAACTATTTGCTTGCTAAGAACTTGCTAAGAAGGAATCTCAAGAGTACACAAAGGAATTAGACA
AAGATCTAGATGAATATATGCATGGTGACAAAAACCAGGGTCAAAGGAAGACGAGAATGGGCAAGGTCA
CCTCAAGCGGAAACGACCTGTGACAGACAGACTGGGTAAACAGAGTGGAATGAACTACAAAGGGCGCTAT
GAGATCACAGAAGAGGATGCTCCCGAGAAAGTAGCCGATGAGATCGCCTTCAGGTTGCAGGAACCCAAGA
AGGACCTGATAGCCCGAGTAGTGAGGATACTTGGGAACAAAAGGCCATTGAACCTCTGATGGAAACAGC
TGAAGTCGAGCAAAATGGTGGTCTTTTCATAATGAATGGTAGCCGAAGAAGAACACCCGGTGGAGTCTTT
CTGAATCTCTGAAGAACACACCCAGCATCAGCGAGGAACAGATTAAAGGACATTTTCTACGTTGAAAATC
AAAAGGAATATGAAAATAAAAAAGCTGCTAGAAAAAGAAGAACACAGCTTTTGGGGAAGAAAATGAAACA
AGCTATTAAGTCTGAACCTCCAGGAGGACGATGACACATCTCGAGAAACGTTTGCAAGTGACACTAAT
GAGGCCCTGGCCTCTCTGACGAAGCCAGGAAGGACCTGGCGAGACCAAGCTGGATGCTGAGGAGGCCA
TTGAGGTGGACCACCTCAGGACTTGGACATCTTC

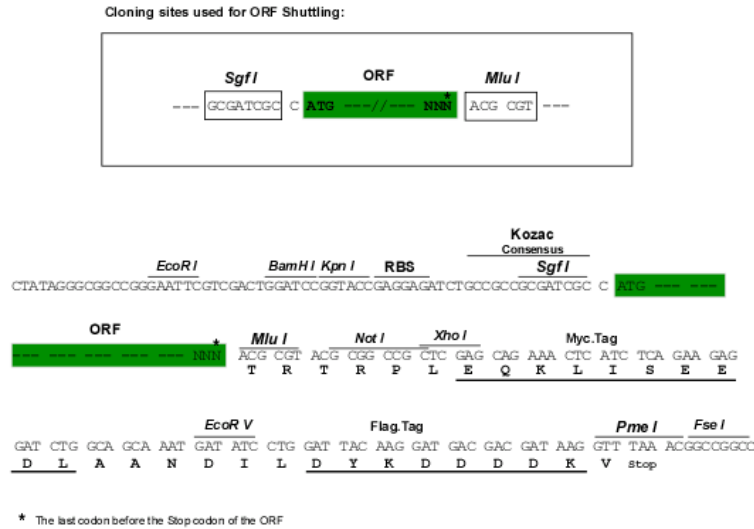
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Chromatograms: https://cdn.origene.com/chromatograms/mm9076_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019996

ORF Size: 1155 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019996.4](#), [NP_064380.3](#)

RefSeq Size: 1893 bp

RefSeq ORF: 1158 bp

Locus ID: 56698

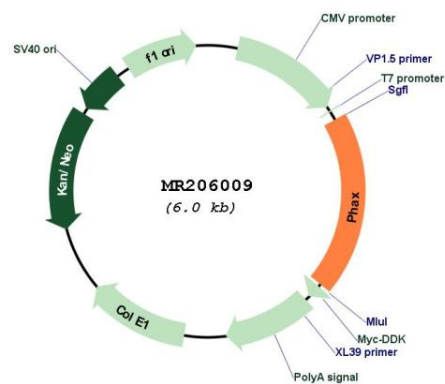
UniProt ID: [Q9JJT9](#)

Cytogenetics: 18 30.63 cM

MW: 43.7 kDa

Gene Summary: A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation in the nucleus is required for U snRNA export complex assembly and export, while its dephosphorylation in the cytoplasm causes export complex disassembly. It is recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Its compartmentalized phosphorylation cycle may also contribute to the directionality of export. Binds strongly to m7G-capped U1 and U5 small nuclear RNAs (snRNAs) in a sequence-unspecific manner and phosphorylation-independent manner. Plays also a role in the biogenesis of U3 small nucleolar RNA (snoRNA). Involved in the U3 snoRNA transport from nucleoplasm to Cajal bodies. Binds strongly to m7G-capped U3, U8 and U13 precursor snoRNAs and weakly to trimethylated (TMG)-capped U3, U8 and U13 snoRNAs. Binds also to telomerase RNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206009