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Product datasheet for MG216138

Phax (NM_001162989) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phax (NM_001162989) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phax
Synonyms:	2810055C14Rik; 4933427L19Rik; AU018701; AU018854; D18Ertd65e; p55; Rnuxa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216138 representing NM_001162989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCACTGACCCCCGTTGTAGCCCAGAAAGTCCTAGGTGGGGGCAGCGCTGCGTGCGCACCGGTGT
CACATTATCGGACTGTTAAACATGTGGACTCCAGCGAGGAGAGTCTAGATTCCGATGACGATTGCTCTCT
TTGGAAACGCAAGCGACAGAAGTGTCATAATACTCCTCCCAAGCCAGAGCCTTTCCCATTTGGACCAAGT
GGTCAGAAAACGGCTCTCAACGGAGGAAAGAAGGTGAACAACATCTGGGGCGCGGTGCTCCAGGAACAGA
ATCAAGATGCGGTGGCCACTGAACTCGGCATCTTGGGAATGGAAGGCTCCATTGACAGAAGCAGGCAGTC
TGAGACCTATAACTATTTGCTTGCTAAGAAACTTGCTAAGAAGGAATCTCAAGAGTACACAAAGGAATTA
GACAAAGATCTAGATGAATATATGCATGGTGACAAAAAACCAGGGTCAAAGGAAGACGAGAATGGGCAAG
GTCACCTCAAGCGGAAACGACCTGTCAGAGACAGACTGGGTAACAGAGTGGAAATGAACTACAAAGGGCG
CTATGAGATCACAGAAGAGGATGCTCCCGAGAAAGTAGCCGATGAGATCGCCTTCAGGTTGCAGGAACCC
AAGAAGGACCTGATAGCCCGAGTAGTGAGGATACTTGGGAACAAAAAGGCCATTGAACTTCTGATGGAAA
CAGCTGAAGTCGAGCAAAATGGTGGTCTTTTCATAATGAATGGTAGCCGAAGAAGAACACCCGGTGGAGT
CTTTCTGAATCTCCTGAAGAACACACCCAGCATCAGCGAGGAACAGATTAAGGACATTTTCTACGTTGAA
AATCAAAAGGAATATGAAAATAAAAAAGCTGCTAGAAAAAGAAGAACACAGCTTTTGGGGAAGAAAATGA
AACAAGCTATTAAAAGTCTGAACTTCCAGGAGGACGATGACACATCTCGAGAAACGTTTGCAAGTGACAC
TAATGAGGCCCTGGCCTCTCTCGACGAAGCCCAGGAAGGACCTGGCGAGACCAAGCTGGATGCTGAGGAG
GCCATTGAGGTGGACCACCCTCAGGACTTGGACATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

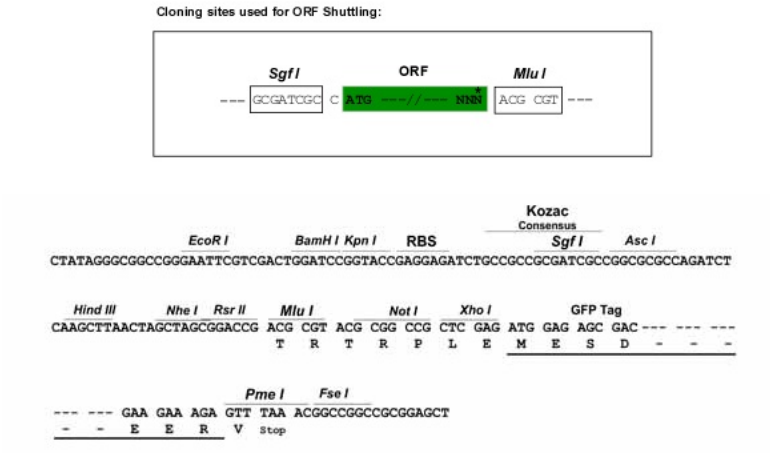
>MG216138 representing NM_001162989
Red=Cloning site Green=Tags(s)

MTSLTPVVAQKVLGGGSAACAPVSHYRTVKHVDSSEESLDSDDDCSLWKRKRQKCHNTPPKPEPFPFGPS
GQKTALNGGKKVNNIWGAVLQEQNQDAVATELGILGMEGSIDRSRQSETYNYLLAKKLAKKESQEYTKEL
DKDLDEYMHGDKKPGSKEDENGQGHLKRKRPVRDRLGNRVEMNYKGRYEITEEDAPEKVADEIAFRLQEP
KKDLIARVVRILGNKKAIELLMETAEVEQNGGLFIMNGSRRRTPGGVFLNLLKNTPSISEEQIKDIFYVE
NQKEYENKKAARKRRTQLLGKKMKQAIKSLNFQEDDDTSRETFASDTNEALASLDEAQEGPGETKLDAEE
AIEVDHPQDLDIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001162989

ORF Size: 1089 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_001162989.1, NP_001156461.1

RefSeq Size: 1783 bp

RefSeq ORF: 1092 bp

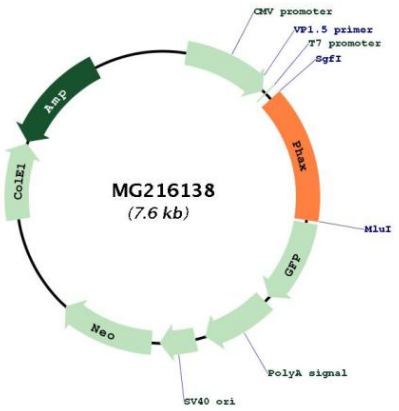
Locus ID: 56698

UniProt ID: Q9JJT9

Cytogenetics: 18 30.63 cM

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 MG216138