

## Product datasheet for **MR206009L3V**

### Phax (NM\_019996) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Type:</b>             | Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Symbol:</b>                   | Phax                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms:</b>                 | 2810055C14Rik; 4933427L19Rik; AU018701; AU018854; D18Ert65e; p55; Rnuxa                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Mammalian Cell Selection:</b> | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Vector:</b>                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tag:</b>                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ACCN:</b>                     | NM_019996                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ORF Size:</b>                 | 1155 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ORF Nucleotide Sequence:</b>  | The ORF insert of this clone is exactly the same as(MR206009).                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>OTI Disclaimer:</b>           | 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. <a href="#">More info</a> |
| <b>OTI Annotation:</b>           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq:</b>                   | <a href="#">NM_019996.4</a> , <a href="#">NP_064380.3</a>                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>              | 1893 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq ORF:</b>               | 1158 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Locus ID:</b>                 | 56698                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID:</b>               | <a href="#">Q9JJT9</a>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cytogenetics:</b>             | 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]